Measuring Sentence-Level and Aspect-Level (Un)certainty in Science Communications

Jiaxin Pei
School of Information
University of Michigan
`pedropei@umich.edu`

David Jurgens
School of Information
University of Michigan
`jurgens@umich.edu`

Abstract

Certainty and uncertainty are fundamental to science communication. Hedges have widely been used as proxies for uncertainty. However, certainty is a complex construct, with authors expressing not only the degree but the type and aspects of uncertainty in order to give the reader a certain impression of what is known. Here, we introduce a new study of certainty that models both the level and the aspects of certainty in scientific findings. Using a new dataset of 2167 annotated scientific findings, we demonstrate that hedges alone account for only a partial explanation of certainty. We show that both the overall certainty and individual aspects can be predicted with pre-trained language models, providing a more complete picture of the author's intended communication. Downstream analyses on 431K scientific findings from news and scientific abstracts demonstrate that modeling sentence-level and aspect-level certainty is meaningful for areas like science communication. Both the model and datasets used in this paper are released at https://blablablab.si.umich.edu/projects/certainty/

1 Introduction

Expressing certainty about what is known is a necessary characteristic of scientific work as science involves producing knowledge about what was previously unknown (Friedman et al., 1999; Smithson, 2012). Given the natural aversion to uncertainty, existing studies have found that presenting uncertainty in science communications influences people's perception of scientific findings and trust in science (Gustafson and Rice, 2019; Fischhoff, 2012; Van Der Bles et al., 2020). Therefore, understanding how journalists and scientists communicate certainty and uncertainty is critical for understanding the current ecosystem of science journalism and further provides better guidance for uncertainty communication (National Academies of Sciences, Engineering, and Medicine, 2017).
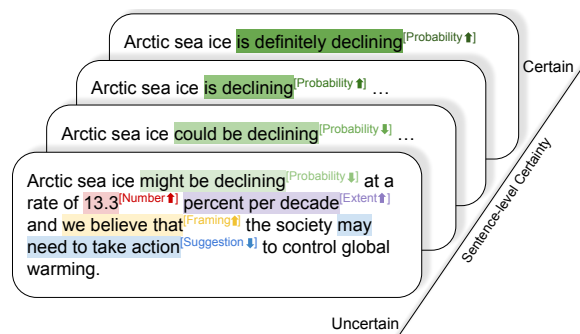

Figure 1: Certainty is a multi-dimensional construct. The certainty of a scientific finding can be perceived holistically at the sentence level from its description. However, scientific findings may involve multiple aspects that may each be described as certain (↑) or uncertain (↓) (aspect-level certainty).

Multiple studies in Linguistics, NLP, and the Science of Science literature have examined how certainty is expressed. These studies have modeled certainty in multiple ways, including epistemic modality (Vold, 2006), semantic uncertainty (Szarvas et al., 2012), verbal uncertainty (Hart and Childers, 2004), factuality (Saurí and Pustejovsky, 2009), and hedging (Hyland, 1996). In practice, most uses of uncertainty rely on hedging as a coarse characterization of the overall uncertainty (Farkas et al., 2010). However, as suggested by Rubin et al. (2006), certainty itself is a complex construct and has to be modeled from multiple dimensions. The complex and subjective nature of certainty makes annotation challenging, often resulting in moderate-to-low annotator agreement (Henriksson and Velupillai, 2010; Rubin, 2007), and motivating a better and more practical way to model and annotate certainty in text.

We propose to study certainty from the commonly-used sentence-level and, in parallel, introduce a new dimension of *aspect-level certainty*, providing a fine-grained description of how certainty is communicated in text. This approach

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is analogous to work in sentiment analysis that models both holistic (Meena and Prabhakar, 2007), and aspect-level valence (Schouten and Frasincar, 2015)—and their interactions. Based on existing categorizations of certainty, we compile six aspects of scientific findings including: NUMBER, EXTENT, PROBABILITY, FRAMING, CONDITION, and SUGGESTION. Following carefully designed annotation guidelines and after extensive annotator training, we introduce a new annotated corpus of 2200 scientific findings equally, sampled from news and scientific abstracts for both sentence-level and aspect-level certainty, and attained reliable inter-annotator agreements. Analysis with this dataset suggests that the number of hedges can only partially explain the variance of the overall sentence-level of certainty (Pearson's r=0.55). Therefore, to better model certainty in scientific findings, we fine-tuned a SciBERT (Beltagy et al., 2019) for the two tasks and it achieves 0.63 Pearson's r for sentence-level certainty and an average of 0.66 binary-F1 for aspect-level certainty.

Our paper offers the following three contributions. First, we provide the first dataset of scientific findings annotated with both sentence-level and aspect-level certainty and fine-tune neural language models to predict certainty in scientific findings. Second, using our best-performing model, we infer the sentence-level and aspect-level certainty for 431K scientific findings in news and abstracts and show that the sentence-level certainty of findings in abstracts is associated with journal impact factor and team size. Regression analysis reveals that low-impact journals and large teams often present scientific findings with higher sentence-level certainty. Third, using 6586 findings from abstracts paired with their description in news, we find that news reports a finding with lower certainty than its corresponding description in the abstract. Fine-grained regression analysis over aspect-level certainty further reveals that journalists describe some key aspects with less certainty. Despite some studies suggest that news reports tend to describe uncertain findings as more certain (e.g., Weiss and Singer, 1988; Fahnestock, 2009), our study indicates that journalists may actually play down the certainty when reporting scientific findings.

2 Modeling Certainty

Communicating certainty involves qualifying parts of a statement to indicate what is known and what the speaker's beliefs are. Multiple approaches have proposed models for this property of language. The majority of these studies have focused on the degree or level of certainty (Rubin et al., 2006). Within this approach, hedges have been considered effective proxies for uncertainty (Farkas et al., 2010) across multiple fields including linguistics (Recasens et al., 2013), economics (Ahir et al., 2018), and psychology (Tausczik and Pennebaker, 2010), where the frequent use of hedges indicates more uncertainty and absence indicates certainty. Other work has proposed examining which aspects of language contribute to the perception of uncertainty. For example, Rubin et al. (2006) proposed a four dimension model of certainty, including perspective, focus, timeline, and level, and each dimension contains several sub-categories. Following, we synthesize multiple approaches for measuring sentence-level and aspect-level certainty and proposed a representative categorization.

Sentence-level Certainty Prior research has assumed that the level of certainty for a finding is presented, perceived, and further analyzed within one or several sentences (Holmes, 1982; Henriksson and Velupillai, 2010; Rubin, 2007). This aggregate perception represents a unified perception of various information expressed in the given piece of text and is the primary judgment of certainty along a continuum from uncertain to certain (Rubin et al., 2006). This perception of this overall level of certainty is known to influence people's following actions in many contexts (Corley and Wedeking, 2014; Wood and Eagly, 2009). Therefore, in modeling certainty, we include a sentence-level estimate of the certainty for a scientific finding's description.

Aspect-level Certainty In describing a finding, authors may contextualize which aspects are more or less certain. Many categorizations have been proposed to model the complex nature of these descriptions of certainty and uncertainty including types of uncertainty (Szarvas et al., 2012; Thunnissen, 2003), sources of uncertainty (Politi et al., 2007), issues of uncertainty (Han et al., 2011), forms of uncertainty (French, 1995), focus and perspective of certainty (Rubin, 2007). While prior work focuses on various aspects of certainty, their categorizations are often domain-specific (Politi et al., 2007; Han et al., 2011) or overly limited in scope to cover common aspects appearing in scientific findings (Szarvas et al., 2012; Rubin, 2007). Here, we synthesize prior approaches and propose six repre-

sentative aspects of scientific findings which could involve certainty or uncertainty, with a goal of creating a comprehensive scheme that captures most of what is seen in knowledge-intensive corpora.

NUMBER refers to certainty towards specific quantities. For example, "approximately 250 individuals participated in this study" is uncertain towards NUMBER. Numerical information is vitally important in science communication as it is found to be the best way to promote scientific understanding in situations like climate change (Budescu et al., 2009) and health (Peters et al., 2014a). Accordingly, the imprecision of numbers or the inaccuracy of calculations are usually considered as a form of uncertainty (French, 1995). How to effectively communicate numerical information in scientific findings has been identified as one of the major challenges of science communication (Peters et al., 2014b). Identifying certainty regarding NUMBER in scientific findings could help to understand how journalists and scientists communicate certainty about numbers and inspire better ways to communicate this information.

EXTENT refers to certainty about the proportion/ratio of properties that make up an object/event or the extent of a change. For example, "This bridge is mainly composed of agate" and "We observe a moderate increase of suicide in Winter" involves uncertainty towards EXTENT. EXTENT can be described with numbers in certain situations. For example, "The average sea level across the world increased by approximately 30%" expresses extent via a number. However, unlike numbers that focus on specific quantities, EXTENT focuses on the components of an object, substance, or the extent of a change/effect. Previously, EXTENT was not explicitly proposed as a source of uncertainty, although some studies have brought up similar ideas. For example, French (1995) considers "Uncertainty about how much [the] impacts matter" as a form of uncertainty and Phillips et al. (2009) propose uncertainty about the strength or validity of evidence about risks, which may not be described with specific quantities. Existing studies suggest that journalists may misreport the extent of scientific findings to which it is supported by evidence (Dixon and Clarke, 2013), motivating its inclusion here.

PROBABILITY refers to certainty about the probability that something will occur, has occurred, or is associated with another factor. For example, "This medicine could possibly cure cancer" and

"A is possibly associated with B" involves uncertainty about PROBABILITY. PROBABILITY has been widely recognized as one major source of uncertainty (Howard, 1988; Mosleh and Bier, 1996; Politi et al., 2007) and how to communicate probabilities effectively has long been an important question in science communication (Budescu et al., 2012; Sinayev et al., 2015).

CONDITION refers to the situation where something depends on a specific condition, and the condition involves certainty or uncertainty (Szarvas et al., 2012). Scientific findings are often qualified by specific conditions under which the result is valid, which may themselves be certain or uncertain (Friedman et al., 1999). For example, "Cancer could be cured if the medicine can be made shelf-stable" is uncertain regarding CONDITION.

FRAMING refers to the certainty about how scientists or journalists themselves frame or interpret the scientific finding. For example, "We suspect A has effects on B" involves the uncertainty from the authors while "We conclude that A has effects on B" frames the finding with conviction. This aspect is related to expressions about epistemic uncertainty(the speaker having or lacking knowledge Szarvas et al., 2012; Fox and Ülkümen, 2011) and psychological uncertainty in the Psychology literature (Windschitl and Wells, 1996). In the news, journalists actively add their interpretations about the original information (Lin et al., 2006) and different framing may further affect people's perception of the overall certainty of the presented information (Soni et al., 2014). Therefore, identifying the certainty about FRAMING could help us to better understand how journalist's framing affects people's perceptions of scientific findings.

SUGGESTION refers to certainty or uncertainty about the implications or future actions for the public or science community. Scientific findings do not only describe facts, but can also communicate practical implications for people's daily life (Batteux et al., 2021). For example, "Patients probably need more medicine to cure this disease" involves uncertainty regarding future actions. Uncertainty about SUGGESTION was previously identified as dynamic uncertainty in Szarvas et al. (2012).

A single scientific finding may include multiple aspects with their own certainties. For example, "The vaccine is effective for 76% of chances" is uncertain regarding PROBABILITY while is certain about the specific NUMBER. Similarly, "The sci-

entists need to do more research to understand the effect of A on B" indicates the uncertainty about PROBABILITY but is certain about SUGGESTION.

3 Data

To study certainty, we construct a dataset of scientific findings reported in news and research articles. News data comes from Altmetrics, which tracks mentions of scientific articles in news outlets. We restrict our analysis to U.S.-based outlets where we could retrieve the full text of the article and where the DOI for the scientific article was recorded in the Microsoft Academic Graph (MAG), which provides metadata on the article (e.g., authors, abstract, and publication venue). Supplemental material §A contains additional details on preprocessing steps. A total of 128,942 news/article pairs were collected, spanning 273 different news outlets and 57,807 different scientific articles.

For scientific articles, we extract the findings from the abstract reported in the MAG using the abstract parser developed by Prabhakaran et al. (2016), which labels sentences as background, method, introduction, result, and conclusion. We use sentences labeled as result or conclusion in our analysis. For news, we adopt a heuristic approach and identify all sentences containing a discovery-related keyword (e.g., find, conclude). We retain the subjective clause after the verb as the finding. Examples of findings produced by each method, as well as additional details, are reported in Supplemental Material §C. This process finally leads to 608,694 unique scientific findings from abstracts and 106,612 unique scientific findings from news reports. Among the 128,942 news-paper pairs, 52,406 have both identified findings from news and paper abstracts.

4 Annotating Certainty

We annotate scientific findings for both their sentence-level certainty and the presence and certainty of each of the six aspects. Given subjectivity in perception, the same expression of certainty may evoke different perceptions (Druzdzel, 1989). Prior work in annotating uncertainty has generally reported low to moderate inter-annotator agreement (Henriksson and Velupillai, 2010; Rubin, 2007); for example, Rubin (2007) reports Cohen's κ=0.41 when annotating news certainty with a five-level Likert scale. To mitigate these challenges, we carefully designed the annotation procedures which are described in this section.

Annotation Setup Annotators were recruited from a US university and received initial one-hour training. All annotators are fluent in English and have extensive experience in reading scientific news and research articles. Annotators who attained high IAA with our gold standard were retained and then went through four additional rounds of pilot annotation and discussions (2 rounds for sentence-level and 2 for aspect-level) to build consensus. All annotators were paid $15/hr for training and annotation.

Annotation was performed in three phases. In the **first phase**, the initial data was sampled in a way to be more balanced across levels of certainty. Markers of certainty are not equally distributed throughout scientific communication (Rubin et al., 2006); for example, 87% of the data labeled in Henriksson and Velupillai (2010) were found to be very certain. Therefore, in the initial data, we sample 1000 findings equally from news and paper abstracts where 50% scientific findings containing no hedges, 35% with one hedge, and 15% with 2+ hedges. The hedge words are collected from Hyland (2005).

The annotators were first asked to rate how certain they perceived the finding on a six-point Likert scale as the sentence-level certainty. Aspect-based ratings were performed in a separate round so as not to potentially bias annotators towards focusing their sentence-level judgments on the basis of aspects. For each aspect, annotators were asked to assess whether that aspect was present and, if so, whether the language for the aspect was certain or uncertain. For instances that are clearly not scientific findings, the annotators were instructed to label it as BAD-TEXT. Each finding was rated by at least two annotators for sentence-level and, due to increased variance observed during training, three annotators for aspect-level. In this phase, 2349 sentence-level and 3209 aspect-level annotations were collected for 1000 findings. Annotators had a high agreement in both sentence-level and aspect-level tasks. For sentence-level, annotators attained a Krippendorff's α=0.67, which is substantially higher than IAA for the closest comparable task (Rubin, 2007, Cohen's κ=0.41).[1] The final sentence-level rating is computed as the average across all annotators' scores. For aspect-level cer-

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[1] While Cohen's κ and Krippendorff's α are not directly comparable, both are chance-corrected scores in [-1,1] and we still view rough comparisons of magnitude useful to provide insight into annotators' relative agreement.
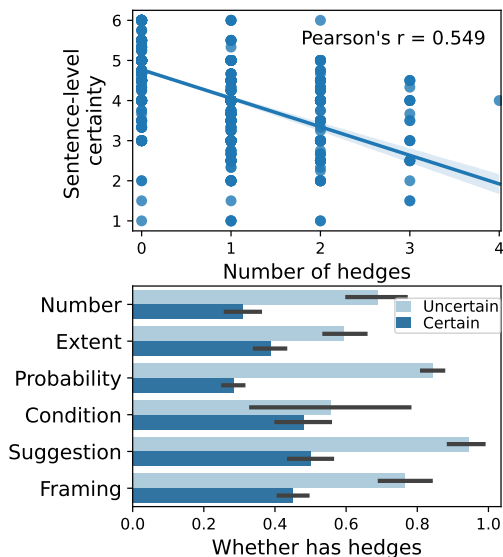
Figure 2: (Top) The number of hedges shows a moderate correlation with sentence-level certainty, while (Bottom) hedges vary in frequency across aspects.

Figure 3: Relative sentence-level certainty when each aspect is certain/uncertain. The overall certainty of scientific findings is majorly affected by PROBABILITY and SUGGESTION, while are less affected by other aspects like NUMBER and EXTENT

tainty, the average Krippendorff's α is 0.57 for the six aspects, indicating moderate to high agreement. Supplemental material §D contains more details about agreement scores. We take the majority label as the final label for aspect-level certainty.

In the **second phase**, given the label imbalance in both sentence-level and aspect-level certainty, we sample additional data for annotation based on model predictions using different sampling strategies for sentence-level and aspect-level certainties. For sentence-level certainty, we fine-tuned a roberta-base classification model and predicted all the extracted findings with sentence-level certainty. We further sampled 400 findings with low model confidence equally from news and abstracts for the second-phase annotation. For aspect-level certainty, we fine-tuned a SciBERT classification model and up-sampled 600 findings for less frequent aspects, including SUGGESTION, EXTENT, CONDITION, and FRAMING.

Given that the first and second phase data do not reflect the distribution of certainty in a natural sample, we further randomly sampled 200 findings from all the extracted findings as to the **third phase**. Given that the annotators were capable of doing reliable annotations after the first phase, annotators independently annotated 1200 findings for the second and third phases.

Results The final annotated dataset contains 6958 labels for 2200 findings. After removing findings that are labeled as BAD-TEXT, we obtained 1551 findings labeled with sentence-level certainty and 1760 findings labeled with aspect-level certainty, among which 1144 findings are labeled with both sentence-level and aspect-level certainty. Supplemental §E present examples and distribution of the data. Previously, Szarvas et al. (2012) considers CONDITION as one type of uncertainty, however, in the annotated data, less than 10% of CONDITION is labeled as uncertain. This difference indicates that previously proposed types of uncertainty may not be considered as uncertain in knowledge-intensive corpus like scientific findings and demonstrates the value of aspect-level certainty.

To what degree do hedges capture certainty? Comparing the sentence-level certainty with the number of hedges (Figure 2, top) shows only a *moderate* correlation between hedging and certainty, r=0.55, despite their widespread use as a proxy. For example, "Further research is necessary to understand whether this is a causal relationship" contains zero hedges but explicitly expresses strong uncertainty towards the causal relationship, suggesting that many descriptions of certainty are not well capture by simple hedge-based lexicons. Further, authors vary in how frequently they employ hedges when describing the different aspects of certainty (Figure 2, bottom). This variance in their distribution suggests that hedges are less effective as proxies for capturing uncertainty for all aspects.

What is the association between aspect-level and sentence-level certainty? Figure 3 shows the relative sentence-level certainty for each as-

Model	r on full test set	r on random set
LR + Hedges	−0.02	−0.02
LR + BoW	0.55	0.44
RoBERTa-base	0.62 ±0.051	0.55 ±0.067
SciBERT	**0.63 ±0.061**	**0.57 ±0.065**

Table 1: Sentence-level certainty performance

pect. Uncertainties about PROBABILITY and SUGGESTION are associated with a sharp decrease of sentence-level certainty. However, the uncertainties about NUMBER and EXTENT are only associated with a small decrease of sentence-level certainty. This result indicates that the descriptions of aspects vary in how they contribute to the perception of the overall certainty of scientific findings.

5 Predicting Certainty

In this section, we build models to predict sentence- and aspect-level certainty in scientific findings to support downstream analyses of certainty. We test two linear baseline models and two deep-learning models based on neural language models. As linear baselines, we include a model using bag-of-words (BoW) features and another based on the frequency of each hedging word. For neural models, we use SciBERT (Beltagy et al., 2019), and RoBERTa model (Liu et al., 2019) as the base models and fine-tune them over our annotated dataset. For both sentence-level and aspect-level certainty, the data labeled in phase 1 and phase 2 are split 8:1:1 into training, validation, and test. To better reflect the expected performance generalization, the test is made from the random set annotated in Phase 3 and the 10% test partition of Phases 1 and 2. For all the models, we also report their performance on the random test set to demonstrate their performance over the natural samples. Supplemental Section §B describes additional training details.

Sentence-level Certainty We formulate sentence-level certainty prediction as a regression task for all the models and Table 1 shows the model performance. We find that a linear weighting of the hedges is unable to predict the overall sentence-level certainty when tested on the random sample, largely due to the relatively low ratio of findings containing hedges. In comparison, linear regression with bag-of-words features is better able to capture overall certainty with Pearson's r=0.55, suggesting that other cues in addition to hedges also affect the overall certainty in the natural
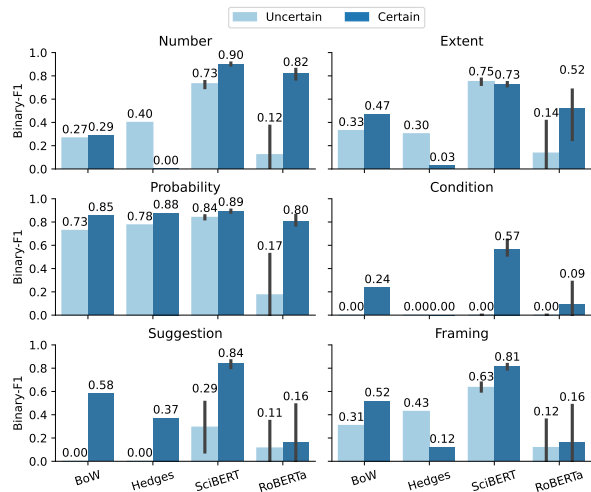
Figure 4: Binary-F1 for predicting aspect-level certainty. SciBERT outperforms all the other baselines.

sample. Compared with the two baselines, the two neural models based on pre-trained language models achieve better performance. Both neural models are run five times with different random seeds, showing that the performance improvements over the baselines are statistically significant (p<0.05 paired t-test). The SciBERT model performs slightly better than the RoBERTa-base model, indicating domain-specific pre-training is helpful though not to the point of significance. We use the best-performing SciBERT model (r=0.70) as the regressor for sentence-level certainty in the following analyses.

Aspect-level Certainty For each aspect-level certainty, we predict whether a scientific finding is *Not-Present*, *Certain* or *Uncertain*. For the two neural models, we use shared pre-trained language models but independent classification heads for each aspect. Figure 4 shows the binary-F1 scores for predicting aspect-level certainty. The SciBERT model consistently outperforms other baselines over the six aspects, indicating that aspect-level certainty prediction requires more domain-specific and context information. However, given that uncertainties about CONDITION and SUGGESTION are relatively rare in the annotated dataset, the SciBERT model does not capture well the uncertainty about CONDITION and shows high variance when predicting uncertainty about SUGGESTION. In the following analysis, we use the best-performing SciBERT model (mean F1=0.71) as the classifier for aspect-level certainty.

6 Certainty in Science Communications

Certainty is a core aspect of science communication (Friedman et al., 1999) and presenting certainty in different forms (i.e., aspects) may further affect people's perception and future action about a series of issues including climate change (Fortner et al., 2000) and the Covid-19 vaccine (Batteux et al., 2021). Our models and dataset enable us to study how journalists and scientists present certainty in science communications. Here, we focus on the following five research questions. **RQ1:** Are findings in science news more certain than those in paper abstracts? **RQ2:** Do journalists and scientists differ in their use of aspect-level certainty? **RQ3**: Does aspect-level certainty in abstract findings affect the sentence-level certainty in news findings? **RQ4**: Does journal impact factor affect the certainty of scientific findings and how they are covered in news reports? **RQ5**: Does team size affect the certainty of scientific findings and how they are covered in news reports?

RQ1–RQ3 focus on changes to the description of certainty in the science communication process. While studies have found that news reports tend to describe uncertain findings as more certain (Weiss and Singer, 1988; Fahnestock, 2009), some studies suggest that news articles may also add more uncertainty to science finding in some cases (Friedman et al., 1999). Our model and dataset allow us to study (1) if certainty is changed, (2) if so, what aspects are changed, and (3) what drives the change. RQ4–RQ5 examine external factors that may affect how journalists and scientists present certainty. We focus on (4) the prestige/quality of the journal, asking whether lower- or higher-quality journals differ in how certain their findings are, and (5) in the era of team science (Stokols et al., 2008; Hall et al., 2018), whether team size influences how certain the authors describe the results, given known differences in the nature of team science research outputs (Wu et al., 2019; Sud and Thelwall, 2016; Thelwall and Sud, 2016).

Data and method For RQ1 and RQ2, to control the effects of the content of the finding, we propose a method to match the same scientific finding in news and paper abstracts. For each extracted finding in a paper abstract, we identify the paraphrased findings in the corresponding news article reporting on that paper. We first remove all punctuation and stop words and then stem all the words in each sentence. Next, we calculate the overlap and Jaccard

similarity between each pair of findings in the news and abstract. We manually evaluated the matched findings and set word overlap >=3 and Jaccard similarity >0.3 as the threshold. Based on the findings from 52,406 news-paper pairs, we identify 6,586 unique finding pairs from news and abstracts. We manually annotated 70 matched finding pairs, and 63 (90%) refer to the same science finding, indicating high precision of our matching process. Supplemental Material §F shows a random sample of the matched finding pairs. We construct separate regressions predicting the sentence-level (RQ1) and each aspect-level (RQ2) certainty in findings with the source of the finding (i.e., news or abstract). We further control the fields, author and affiliation ranking, journal impacts, finding length, and Flesch reading ease score. For RQ3, we construct a regression predicting the overall sentence-level certainty in news findings with the aspect-level certainty in the corresponding finding from the paper abstract. Except for all the IVs above, we further control the news outlet and the sentence-level certainty of the finding in the abstract.

For RQ4 and RQ5, we construct a regression predicting the sentence-level certainty in 265,758 findings presented in 55,178 paper abstracts using journal impacts factors and the number of authors. Recognizing its limitations (Kurmis, 2003), we use journal impact factor as a proxy for the quality of science based on prior use (Saha et al., 2003). We include controls the field of the research, author, and affiliation ranking extracted from the Microsoft Academic Graph (Wang et al., 2019), finding length and Flesch reading ease score to remove the potential confounds. To test the connection between certainty in news findings and external factors, we construct another regression to predict the level of uncertainty in 72,013 findings presented in 27,000 news articles. Besides all the IVs regarding abstract and authors, we also control the outlet to remove potential confounds.

RQ1: Are findings in news more certain than those in paper abstracts? The regression analysis (details in Supplemental Table 6) indicates that news descriptions have *lower* overall sentence-level certainty than abstract descriptions of the same finding (p<0.01). Although existing studies suggest that science news tends to remove hedges and describe science findings with increased certainty (e.g., Weiss and Singer, 1988; Fahnestock, 2009), our study over the paired findings finds the oppo-
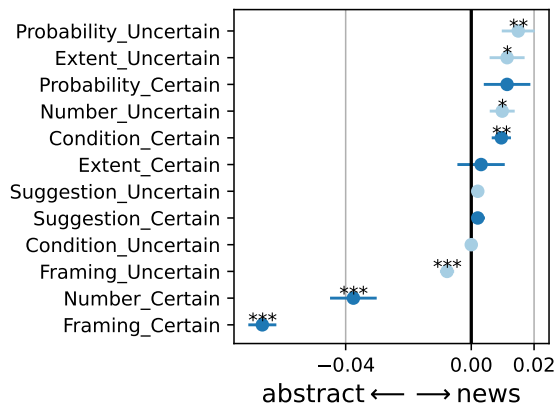
Figure 5: Controlling for multiple factors in RQ2 (e.g., topic, news outlet), the marginal effects show the relative probability of finding each aspect described in the abstract (left) versus news (right), revealing that some aspects like numeric certainty are much more likely to be described in one source.

Figure 6: Averaged marginal effects of aspect-level certainty in abstract findings on the level of certainty for matched news findings.

site: findings in news are less certain compared with findings in abstract, even when controlling the content and many contextual factors.

RQ2: Do journalists and scientists differ in their use of aspect-level certainty? Yes, as shown in Figure 5, findings in abstracts are associated with more certainties about FRAMING and NUMBER. Findings in news are associated with uncertainties about PROBABILITY, EXTENT and NUMBER, indicating that the journalists tend to play down the certainty of some aspects, especially regarding numeric information. Existing studies suggest that laypeople with lower numeracy tend to focus more on narrative instead of numeric information (Dieckmann et al., 2009); one potential explanation for this difference is that journalists could be intentionally simplifying numerical information with hedges like "roughly " instead of the detailed number to better engage the lay audiences. Further, journalists are more likely to discard expressions of the scholar's uncertainty (FRAMING) when presenting the results, potentially aiming to make the work seem more objective. Our result suggests a potential mechanism for lower sentence-level certainty in news compared with abstracts.

RQ3: Does aspect-level certainty in abstract findings affect the sentence-level certainty in news findings? As shown in figure 6, uncertainty about NUMBER and FRAMING are associated with decreased certainty in news findings, indicating that their uncertainty expressions are readily perceived by journalists. However, we also find that the certainty about SUGGESTION in abstracts are

also associated with decreased certainty in news, suggesting that journalists may play down the certainty when presenting the findings involving suggestions or future actions even when it is certain. While existing studies suggest that journalists may exaggerate the potential benefits of science (Wilson et al., 2010), our result indicates that journalists can be very careful when reporting findings involving suggestions or future actions.

RQ4: Are findings in high-impact journals more certain than findings in low-impact journals? No. As shown in Figure 7, findings in the *lower*-impact journals are written with the highest level of certainty, while findings appearing in relatively higher-impact journals are described with comparatively less certainty. One potential explanation for this phenomenon is that high-quality papers published in journals with more strict reviewing processes[2] present certainty more precisely, which leads to a lower overall certainty compared with findings in low-impact journals. As a comparison, the certainty of findings written by journalists is not significantly associated with journal impact factors, suggesting that the prestige of a journal does not affect how journalists present scientific findings.

RQ5: Are findings from small teams more certain than findings from large teams? We find a linear relationship between the number of authors and the overall level of certainty in scientific findings (Figure 7), even with controls for fields and authors. Multiple mechanisms may explain this behavior. Larger teams may themselves be more capable of producing more certain results due to

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[2]Journals with higher impact factors generally have longer reviews than low impact journals (Publons, 2018, p. 36).
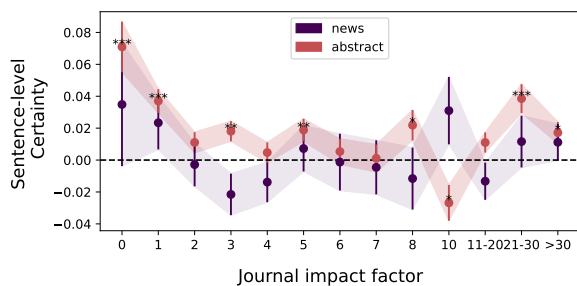
Figure 7: Averaged marginal effects of journal impact factors on level of certainty. Findings appearing on journals with lower impact factors are associated with higher levels of certainty.

Figure 8: Averaged marginal effects of number of authors on level of certainty. Findings written by more authors are associated with a higher level of certainty, while such a pattern does not persist in science news.

more individuals participating and checking results or due to the scale of the experiments capable in team science (Bozeman and Corley, 2004; Jeong and Choi, 2015). Furthermore, our result also connects to Wu et al. (2019)'s finding that small teams generate new disruptive ideas while large teams tend to develop old, existing ideas, as new ideas are often associated with more uncertainties. Alternatively, larger teams likely have more authors who are further away from the experiments and therefore may not be able to describe certainty with the same nuance and precision as smaller teams (or single individuals) who are intimately familiar with the methodological details (MacKenzie, 1998); this distance may increase the perception of certainty when writing. However, this linear trend does not persist in science news; instead, the sentence-level certainty of findings in science news stays relatively steady across different numbers of authors. While team size has been found to be associated with the novelty and impact of science (Lee et al., 2015; Thelwall and Sud, 2016; Sud and Thelwall, 2016), our results indicate that the journalist is largely not influenced by the size of the research team in describing the certainty of their findings.

Across these results, our study suggests that the journalists report scientific findings with *less* certainty than scientists (RQ1). This result contradicts the existing findings that the journalists are overstating science (Weiss and Singer, 1988; Fahnestock, 2009). The fine-grained analysis over aspect-level certainty provides further details for such a change: journalists may play down the certainty about several core aspects of science findings like SUGGESTION even when they are certain in the abstract (RQ2,3). Moreover, we find that the certainty of scientific findings in research articles varies with journal impact factors and team size, while such a
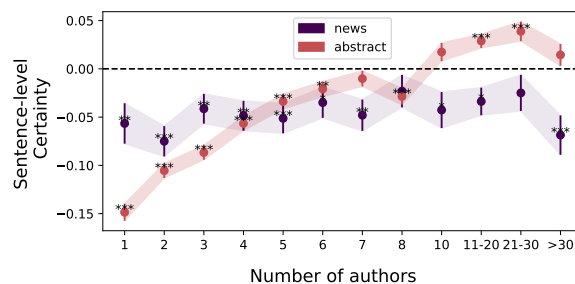
pattern does not persist in science news (RQ4,5), suggesting that journalists may not alter scientific uncertainty according to these factors.

7 Discussion

In this paper, we propose a new taxonomy, data, and models for certainty in science communications. Using the model, we analyzed a large scientific finding dataset and answered a series of important research questions on science communications. However, we also note the following limitations of our study. (1) We only use the abstract rather than the full text of research articles due to open access restrictions from copyright. Although authors normally present the core findings in the abstract, findings in abstracts could still be presented differently from findings in the main texts. (2) We use report verbs to extract findings in science news, which may miss findings that are presented without them. How to identify scientific findings in science news is still an open question and we call for future studies in this direction. (3) In our analysis, we use word-based heuristic methods (word overlap and Jaccard similarity) to match findings in news and abstracts, while the same scientific finding can be paraphrased with different sets of words. In future studies, we will develop better methods to identify paraphrases of scientific findings.

8 Conclusion

Our study represents a new step towards modeling certainty in text and demonstrates that sentence-level and aspect-level certainty are natural and feasible ways to model and annotate certainty. The proposed computational framework for certainty in scientific findings could support and inspire new studies on certainty in general language as well as new approaches to study science communication.

Acknowledgments

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A Data Preprocessing

Altmetric mention data Altmetric[3] tracks a variety of sources for mentions of research papers, including coverage from over 2,000 news outlets around the world. To control for differences in the frequency of scientific reporting and potential confounds from variations in journalistic practices across different countries, the list of news outlets was curated to 423 U.S.-based news media outlets, with each having at least 1,000 mentions in the Altmetric database. Location data for each outlet is provided by Altmetric. This initial dataset consists of 2.4M mentions of 521K papers by 1.7M news articles before 2019-10-06. Each mention in the Altmetric data has associated metadata that allows us to retrieve the original citing news story as well as the DOI for the paper itself.

News processing During data processing, we notice that some very long news articles are usually policy documents. Therefore, we removed news longer than 1392 words (top 5%). To ensure that each news is specifically written about a single research paper's findings, we keep news only linked to one research paper. This leads to 128,942 news-paper pairs spanning 273 different news outlets and 57,807 different scientific articles. For all the news stories, we first remove references and paragraphs containing quotes as they might bias our analysis of uncertainty (e.g., a scientist describes their own work as uncertain in a quote).

B Model Details

We use scikit-learn version 0.23.1 to build the linear regression model (Pedregosa et al., 2011). Specifically, for the linear model, we use ridge regressor and classifier with default settings. The built-in CountVectorizer of scikit-learn is used to vectorize the unigram, bigram, and trigram of each input question. The size of the bag-of-words feature vector is set as 40000.

For both the SciBERT and RoBERTa models, we use Hugging Face[4] transformers (Wolf et al., 2020) and set the batch size as 128 and learning rate as 0.0001. We set `max_len`=60. Adam (Kingma and Ba, 2015) is used for optimization. All the other hyperparameters and the model size are the same as the default `roberta-base` model and the `SciBERT` model. We train both models for 50 epochs and choose the model with the lowest loss on the validation set. All the code, datasets, and parameters of our best-performing model are released and one could easily reproduce all the experiments.

C Additional Details on Extracting Scientific Findings

We use the following lexicons to extract scientific findings in news:

found that, find that, finds that, reveal that, reveals that, revealed that, suggest that, suggested that, suggests that, discover that, discovers that, discovered that, show that, shows that, showed that, conclude that, concludes that, concluded that, indicate that, indicates that, indicated that, claim that, claims that, claimed that, argue that, argues that, argued that

We manually annotate 50 extracted findings and only 1 of them does not fully counted as a scientific finding, indicating high precision of our approach. Table 4 presents the extracted findings from news and abstract.

D Annotation agreement

Figure 10 presents the Krippendorff's α for aspect-level certainty annotation.

E Annotated data

Figure 11 presents the distribution of aspect-level certainty score in annotated dataset. Figure 9 presents the distribution of sentence-level certainty across data splits. Table 2 and Table 3 presents the annotated findings for sentence-level and aspect-level certainty.

F Matched finding samples

Table 5 presents the samples for matched findings.

G Detailed regression results

Table 6 presents the regression results for RQ1. Table 7 presents the regression results for RQ2. Table 8 presents the regression results for RQ3. Table 9 and Table 10 present the regression results for RQ4-5.

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[3]https://www.altmetric.com/
[4]https://huggingface.co/
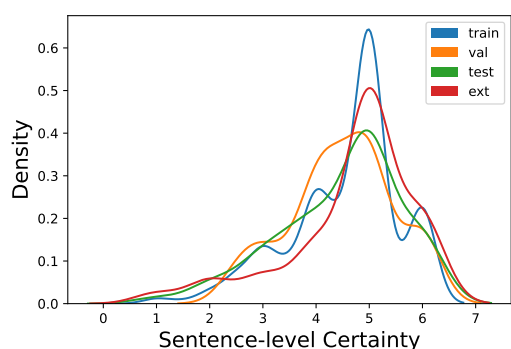
Figure 9: The distribution of sentence-level certainty score across the annotated dataset
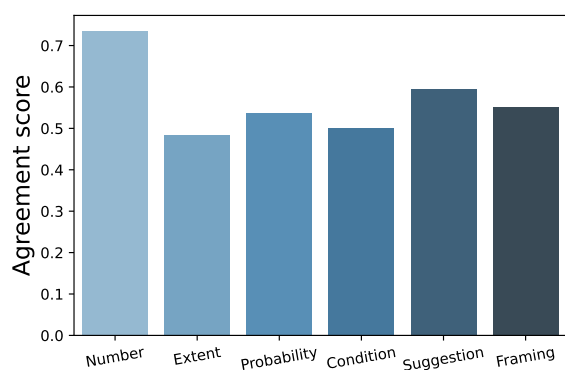
Figure 10: Agreement scores for annotating aspect-level certainty

# Hedges	Text	Score
4	Based on these observations, we propose that the **apparent** receding contact angle **should** be used for characterizing superliquid-repellent surfaces **rather** than the **apparent** advancing contact angle and hysteresis.	4.0
3	The nondemented subjects with Alzheimer pathology **may** have had "preclinical" AD, or numerous cortical plaques **may** occur in some elderly subjects who **would** never develop clinical dementia.	1.5
2	These mouthwashes **may** be of modest benefit, it is **unclear** if a certain subset of patients showed a large response while others derived no benefit.	2.0
1	Circadian rhythm disruptions, such as jet lag, **might** be linked with an increased risk of cancer, she said.	1.0
0	Further research is necessary to understand whether this is a causal relationship.	1.5

Table 2: Annotated sentence-level certainty for findings with different numbers of hedges. The number of hedges does not necessarily reflect the overall perception of certainty.

9972
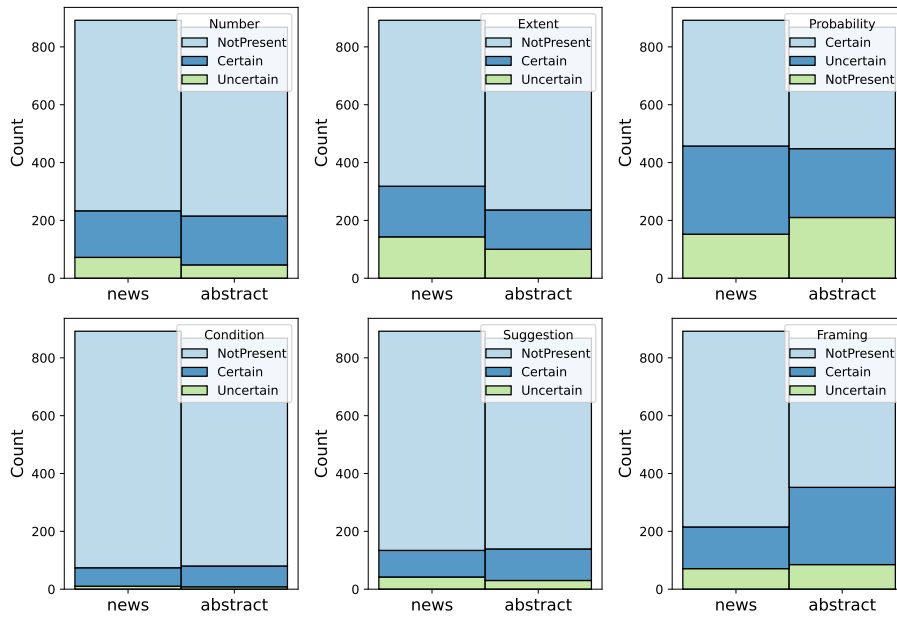
Figure 11: The distribution of aspect-level certainty scores in the annotated dataset
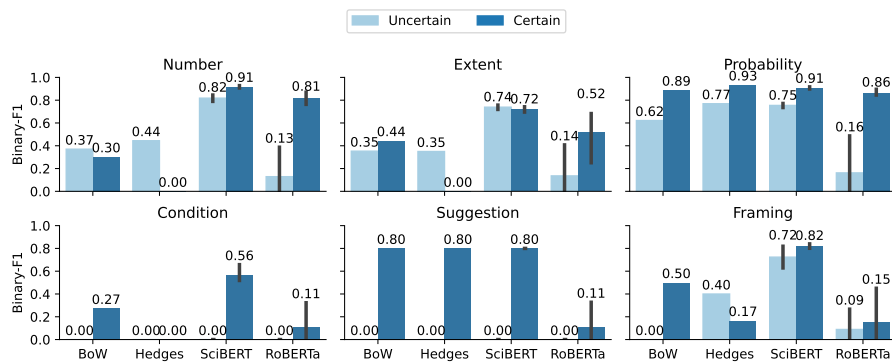
Figure 12: Aspect-level certainty prediction results over the random sample.

Finding	Uncertain	Certain
Arctic sea ice is declining at a rate of nearly 13 percent per decade.	NUMBER, EXTENT	PROBABILITY
Some functions show decreases with potentially irreversible global impacts	EXTENT, PROBABILITY	
There were 365 cases of maternal sepsis, giving an incidence of severe maternal sepsis of 4.7 women per 100,000.		NUMBER, EXTENT
The practice may actually drive away qualified applicants who feel that their privacy has been compromised.	PROBABILITY	
More research is needed on how cryptic post-copulatory and post-zygotic processes contribute to determining paternity and bridging the behavioural and genetic mating systems of viviparous species.	PROBABILITY	SUGGESTION

Table 3: Annotated aspect-level certainty for sampled findings

Original text	Extracted finding	Keyword	Source
In addition, liver procurement data such as WIT showed that organs with less than 30 mins WIT led to significantly reduced yield, but no impact was found on viability.	Organs with less than 30 mins wit led to significantly reduced yield, but no impact was found on viability.	showed	news
I conclude that we live in one of infinitely many universes - one for each value of the gravitational constant.	We live in one of infinitely many universes - one for each value of the gravitational constant.	conclude	news
They found that the findings were specific to ADHD, with no associations observed between the other two disorders.	The findings were specific to adhd, with no associations observed between the other two disorders.	found	news
The Irish investigators of that meta-analysis found that methotrexate was associated with a small albeit statistically significant 10% increase in the risk of all adverse respiratory events and an 11% increase in the risk of respiratory infection.	Methotrexate was associated with a small albeit statistically significant 10% increase in the risk of all adverse respiratory events and an 11% increase in the risk of respiratory infection.	found	news
The study, in the current issue of Research in Nursing & Health, revealed that while physical environment had no direct influence on job satisfaction, it did have a significant indirect influence because the environment affected whether nurses could complete tasks without interruptions, communicate easily with other nurses and physicians, and/or do their jobs efficiently.	While physical environment had no direct influence on job satisfaction, it did have a significant indirect influence because the environment affected whether nurses could complete tasks without interruptions, communicate easily with other nurses and physicians, and/or do their jobs efficiently.	revealed	news
Mixed-species neighbourhoods did not significantly affect tree ring growth in normal years.	Mixed-species neighbourhoods did not significantly affect tree ring growth in normal years.		abstract
Statistical tests (ordinary least squares, quantile, robust regressions, Akaike information criterion model tests) document independence from phylogeny, and a previously unrecognized strong and significant correlation of $\sigma 13C$ enrichment with body mass for all mammalian herbivores.	Statistical tests (ordinary least squares, quantile, robust regressions, Akaike information criterion model tests) document independence from phylogeny, and a previously unrecognized strong and significant correlation of $\sigma 13C$ enrichment with body mass for all mammalian herbivores.		abstract
There were no differences in socioeconomic status, cognitive reserve, general cognitive status, or lipid and TSH profiles between the groups.	There were no differences in socioeconomic status, cognitive reserve, general cognitive status, or lipid and TSH profiles between the groups.		abstract
Much remains unknown and multiple research disciplines are needed to address this: forest scientists and other biologists have a major role to play.	Much remains unknown and multiple research disciplines are needed to address this: forest scientists and other biologists have a major role to play.		abstract
The co-administration of the energy drink with alcohol did not alter the alcohol-induced impairment on these objective measures.	The co-administration of the energy drink with alcohol did not alter the alcohol-induced impairment on these objective measures.		abstract

Table 4: Extracted findings from news and abstracts

News finding	Abstract finding	Jaccard Similarity	Word Overlap
For children with low self-esteem, high praise may be more harmful than helpful.	Inflated praise decreases challenge seeking in children with low self-esteem and has the opposite effect on children with high self-esteem.	0.36	5
Breast-feeding might be no more beneficial than bottle-feeding for 10 of 11 long-term health and well-being outcomes in children age 4 to 14.	Children aged 4 to 14 who were breast- as opposed to bottle-fed did significantly better on 10 of the 11 outcomes studied.	0.35	7
While our first impressions of educators might affect our ratings of them, ultimately the quality of their instruction matters the most in student evaluations.	Quality of instruction is the strongest determinant of student factual and conceptual learning, but that both instructional quality and first impressions affect evaluations of the instructor.	0.39	7
Even in the absence of symptoms, trauma may have an enduring effect on brain function.	Trauma has a measurable, enduring effect upon the functional dynamics of the brain, even in individuals who experience trauma but do not develop ptsd.	0.38	6
Being bullied may increase the risk for parasomnias.	Being bullied increases the risk for having parasomnias.	0.67	4
Dried fruits may lower the gi of white bread through displacement of high gi carbohydrate.	When displacing half the available carbohydrate in white bread, all dried fruit lowered the GI; however, only dried apricots ($GI\_ = \_57\_\_\_5$) showed a significant displacement effect ($P\_ = \_0.025$).	0.36	8
Although the biological mechanisms of these associations need to be explored in future research, these new data may shed new light on the long-observed epidemiological associations between personality, physical health, and human longevity.	The present data shed new light on the long-observed epidemiological associations between personality, physical health, and human longevity.	0.57	12
Late colonies more frequently rejected both young and old non-nestmates, suggesting that risk of acceptance may be too high at this stage.	Young non-nestmates were more frequently accepted in early than in late colonies.	0.43	6
Only graphic warning labels reduced the percentage of sugary drinks purchased, and that the public may support the use of graphic labels if they are informed that only graphic labels are effective.	Graphic warning labels reduced the share of sugary drinks purchased in a cafeteria from 21.4% at baseline to 18.2% effect driven by substitution of water for sugary drinks.	0.36	8
The kenyan runners are able to maintain their cerebral oxygenation within a stable range, which may contribute to their success in long-distance races.	Kenyan runners from the kalenjin tribe are able to maintain their cerebral oxygenation within a stable range during a self-paced maximal 5-km time trial, but not during an incremental maximal test.	0.39	9
The world might be closer to exceeding the budget for the long-term target of the paris climate agreement than previously thought.	The world is closer to exceeding the budget for the long-term target of the paris climate agreement than previously thought.	0.92	11
Src may be associated with longer overall survival.	Higher src activity is associated with longer overall survival.	0.625	5
Pg-free mel may not reduce short-term complications or improve outcomes after asct for mm.	In summary, we demonstrate that switching to PG-free MEL did not significantly reduce short-term complications of ASCT or improve outcomes in MM.	0.64	9
Higher adenoma detection rates may be associated with up to 50 percent to 60 percent lower lifetime colorectal cancer incidence and death without higher overall costs, despite a higher number of colonoscopies and potential complications, according to a study in the june 16 issue of jama.	In this microsimulation modeling study, higher adenoma detection rates in screening colonoscopy were associated with lower lifetime risks of colorectal cancer and colorectal cancer mortality without being associated with higher overall costs.	0.39	14
Long-term ppi use may increase the risk of hip fracture.	The increased risk of hip fracture was evident only in short-term proton pump inhibitor use, but no association was found for long-term or cumulative use.	0.38	6

Table 5: Matched findings from news and abstracts

	index	coeff	SE	p value	
0	Intercept	4.611216e+00	7.331098e-02	0.000000e+00	***
1	source[T.news]	-3.152504e-02	1.030003e-02	2.212871e-03	**
2	finding_len	-3.606883e-03	5.813032e-04	5.641478e-10	***
3	flesch_reading_ease	-8.410694e-04	2.318612e-04	2.873043e-04	***
4	first_author_rank	6.160764e-06	2.968990e-06	3.800262e-02	*
5	affi_rank	4.904435e-06	2.961068e-06	9.768389e-02	
6	journal_impact	1.831817e-03	4.162222e-04	1.085809e-05	***
7	num_authors	1.120942e-03	4.036951e-04	5.499123e-03	**
8	Law	-4.923866e-01	2.018834e-01	1.474259e-02	*
9	Condensed_matter_physics	-4.078086e-01	4.113205e-01	3.214785e-01	
10	Biomedical_engineering	4.695178e-01	3.885994e-01	2.269804e-01	
11	Hydrology	4.014678e-01	3.408326e-01	2.388568e-01	
12	Atomic_physics	3.464856e-01	4.837765e-01	4.738745e-01	
13	Development_economics	6.620255e-01	5.505248e-01	2.291780e-01	
14	Optics	7.390099e-02	6.006107e-01	9.020749e-01	
15	Public_policy	4.924301e-01	3.695244e-01	1.826846e-01	
16	Lung_cancer	-1.486488e-01	8.772435e-02	9.019439e-02	
17	Electronic_engineering	1.039881e+00	1.009401e+00	3.029366e-01	
18	Artificial_intelligence	5.493533e-01	5.104198e-01	2.818231e-01	
19	Machine_learning	-2.278651e+00	5.406896e-01	2.521916e-05	***
20	Gender_studies	6.166049e-01	3.250722e-01	5.787315e-02	
21	Chemical_engineering	4.877528e-01	3.794780e-01	1.987013e-01	
22	Biophysics	-1.122923e-01	2.328199e-01	6.295908e-01	
23	Analytical_chemistry	-2.179638e-02	4.128484e-01	9.578960e-01	
24	Computer_science	-2.618102e-02	2.719240e-01	9.232991e-01	
25	Radiology	2.196766e-01	9.690635e-02	2.341285e-02	*
26	Urology	6.425612e-01	1.465147e-01	1.165494e-05	***
27	Architecture	-1.176468e-01	3.326552e-01	7.235995e-01	
28	Quantum_mechanics	4.168358e-01	1.317573e+00	7.517295e-01	
29	Particle_physics	-1.460230e+00	1.140169e+00	2.003172e-01	
30	Materials_science	2.811691e-02	1.965188e-01	8.862333e-01	
31	Computational_biology	-4.444091e-01	4.838163e-01	3.583483e-01	
32	Agronomy	-8.468680e-01	2.590309e-01	1.080660e-03	**
33	Environmental_resource_management	-1.147462e-01	1.494174e-01	4.425267e-01	
34	Molecular_biology	3.467210e-01	9.677645e-02	3.412987e-04	***
35	Dermatology	4.811503e-01	1.318250e-01	2.633475e-04	***
36	Engineering	-8.098552e-02	3.509610e-01	8.175098e-01	
37	Surgery	2.220879e-01	4.921727e-02	6.465843e-06	***
38	Public_health	-2.742082e-01	6.707385e-02	4.374232e-05	***
39	Molecular_physics	-1.015549e+00	4.841792e-01	3.597167e-02	*
40	Bioinformatics	4.398066e-01	2.218647e-01	4.746451e-02	*
41	Physics	3.112521e-01	2.519723e-01	2.167548e-01	
42	Cognitive_psychology	-3.977321e-03	1.263384e-01	9.748860e-01	
43	Oncology	1.807840e-01	8.691933e-02	3.755370e-02	*
44	Pathology	-1.228369e-01	9.014961e-02	1.730356e-01	
45	Biochemistry	-1.430021e-01	1.234545e-01	2.467472e-01	
46	Social_science	-9.696063e-02	4.913855e-01	8.435795e-01	
47	Climatology	-1.757612e-01	1.364930e-01	1.978755e-01	
48	Pharmacology	-3.788565e-01	1.970273e-01	5.451898e-02	
49	Agriculture	-1.528354e-01	1.592398e-01	3.371831e-01	
50	Neuroscience	4.510360e-01	1.059519e-01	2.086479e-05	***
51	Fishery	-3.954242e-01	2.267028e-01	8.114069e-02	
52	Virology	2.989246e-01	1.022268e-01	3.460129e-03	**
53	Microbiology	-2.883729e-02	1.520552e-01	8.495863e-01	
54	Communication	-2.240787e-01	1.561387e-01	1.512752e-01	
55	Endocrinology	-2.385909e-02	5.034799e-02	6.355909e-01	
56	Epigenetics	-2.909352e-01	1.507975e-01	5.371396e-02	
57	Marketing	4.620001e-02	1.626733e-01	7.764112e-01	
58	Global_health	-3.791645e-01	2.389615e-01	1.126007e-01	
59	Agroforestry	3.715963e-01	2.087886e-01	7.513637e-02	
60	Chemistry	9.905706e-02	1.744052e-01	5.700645e-01	
61	Mathematics	8.543681e-01	5.082665e-01	9.279750e-02	
62	Gynecology	-9.194586e-03	8.338434e-02	9.121989e-01	
63	Gerontology	1.440034e-01	8.837044e-02	1.032223e-01	
64	Meteorology	-1.050708e-02	2.642057e-01	9.682782e-01	
65	Veterinary_medicine	-3.906032e-01	6.031535e-01	5.172541e-01	
66	Government	-3.794836e-02	1.773865e-01	8.306047e-01	

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67	Dentistry	-6.139550e-01	3.270224e-01	6.048427e-02	
68	Microeconomics	-8.877093e-02	2.779616e-01	7.494556e-01	
69	Sociology	1.694921e-02	3.468505e-01	9.610268e-01	
70	Emergency_medicine	1.935680e-03	7.395207e-02	9.791183e-01	
71	Pediatrics	7.633896e-02	5.940183e-02	1.987703e-01	
72	Advertising	3.952515e-02	1.609798e-01	8.060510e-01	
73	Oceanography	-5.073750e-01	2.453483e-01	3.866173e-02	*
74	Developmental_psychology	-1.730768e-01	8.870048e-02	5.104864e-02	
75	Internal_medicine	1.950306e-01	4.852633e-02	5.875713e-05	***
76	Cardiology	1.617686e-01	7.721665e-02	3.619051e-02	*
77	Environmental_engineering	-2.655198e-02	2.328470e-01	9.092143e-01	
78	General_surgery	1.466085e-01	9.005376e-02	1.035468e-01	
79	Environmental_science	-3.470646e-01	1.834293e-01	5.850123e-02	
80	Geophysics	-4.657077e-01	4.762229e-01	3.281322e-01	
81	Immunology	1.767732e-02	6.367703e-02	7.813169e-01	
82	Clinical_psychology	-8.542353e-02	9.191893e-02	3.527324e-01	
83	Toxicology	5.989579e-01	2.967383e-01	4.356253e-02	*
84	Ecology	-1.713938e-01	7.081201e-02	1.551673e-02	*
85	Biology	-6.912513e-04	1.357552e-01	9.959374e-01	
86	Epidemiology	-4.553402e-02	7.454185e-02	5.413084e-01	
87	Physical_therapy	1.308848e-01	4.849343e-02	6.963346e-03	**
88	Physiology	4.251861e-01	1.872337e-01	2.317023e-02	*
89	Statistics	-3.464209e-02	5.993134e-01	9.539065e-01	
90	Psychopathology	1.303805e-02	2.173315e-01	9.521633e-01	
91	Animal_science	6.525120e-01	3.395244e-01	5.464749e-02	
92	Nursing	5.183049e-02	8.807419e-02	5.562158e-01	
93	Seismology	-1.004412e-01	3.724409e-01	7.874080e-01	
94	History	9.556569e-01	1.042109e+00	3.591378e-01	
95	Psychiatry	6.389302e-02	6.174125e-02	3.007575e-01	
96	Zoology	-2.183456e-01	1.619297e-01	1.775540e-01	
97	Psychology	-1.452703e-03	1.347180e-01	9.913965e-01	
98	Etiology	3.201071e-01	1.727141e-01	6.384867e-02	
99	Geomorphology	1.084731e-01	2.031706e-01	5.934189e-01	
100	Atmospheric_sciences	2.414889e-01	2.179970e-01	2.679848e-01	
101	Geography	4.013778e-01	1.873654e-01	3.219426e-02	*
102	Demography	-7.158830e-02	5.693158e-02	2.086152e-01	
103	Geology	-5.614338e-01	2.036943e-01	5.854819e-03	**
104	Medicine	1.566053e-01	1.160822e-01	1.773316e-01	
105	Family_medicine	-1.136435e-01	5.803649e-02	5.023495e-02	
106	Evolutionary_biology	-1.564941e-01	1.447539e-01	2.796704e-01	
107	Astrobiology	1.057965e+00	3.082093e-01	5.996371e-04	***
108	Astronomy	-1.179102e-01	2.312251e-01	6.101043e-01	
109	Astrophysics	-1.491296e-01	3.566812e-01	6.758784e-01	
110	Geochemistry	-3.557819e-01	3.462387e-01	3.041748e-01	
111	Business	-2.892817e-01	1.977081e-01	1.434432e-01	
112	Finance	-3.413238e-02	2.094405e-01	8.705451e-01	
113	Management_science	-2.236258e-12	2.638928e-12	3.967813e-01	
114	Social_psychology	2.732630e-02	6.779648e-02	6.869080e-01	
115	Political_science	9.537054e-02	3.149729e-01	7.620550e-01	
116	Archaeology	-1.895027e-01	3.063191e-01	5.361612e-01	
117	Economics	-1.445690e-01	1.547289e-01	3.501470e-01	
118	Paleontology	-3.775348e-01	1.895223e-01	4.638818e-02	*
119	Criminology	1.236535e+00	4.413599e-01	5.091708e-03	**

Table 6: Regression coefficients for predicting sentence-level certainty with the source of the finding (RQ1).

	DV	IV	coeff	SE	p value	
0	Certain_Number	Intercept	-3.857733e-01	5.288572e-02	3.171367e-13	***
1	Certain_Number	source[T.news]	-3.754525e-02	7.430325e-03	4.408625e-07	***
2	Certain_Number	finding_len	1.368212e-02	4.193456e-04	1.534606e-224	***
3	Certain_Number	flesch_reading_ease	4.748661e-03	1.672621e-04	4.235161e-172	***
4	Certain_Number	first_author_rank	1.060523e-05	2.141796e-06	7.454170e-07	***
5	Certain_Number	affi_rank	-1.366679e-06	2.136081e-06	5.223096e-01	
6	Certain_Number	num_authors	1.048150e-03	2.912211e-04	3.204336e-04	***
7	Certain_Number	journal_impact	6.182535e-04	3.002580e-04	3.950693e-02	*
8	Certain_Number	Law	5.577421e-02	1.456364e-01	7.017490e-01	
9	Certain_Number	Condensed_matter_physics	-7.395243e-02	2.967220e-01	8.031858e-01	
10	Certain_Number	Biomedical_engineering	8.751209e-01	2.803313e-01	1.801792e-03	**
11	Certain_Number	Hydrology	-4.647589e-01	2.458729e-01	5.874791e-02	
12	Certain_Number	Atomic_physics	1.466605e-02	3.489910e-01	9.664801e-01	
13	Certain_Number	Development_economics	1.249819e-01	3.971424e-01	7.529923e-01	
14	Certain_Number	Optics	-1.231226e-01	4.332739e-01	7.762861e-01	
15	Certain_Number	Public_policy	-9.715770e-02	2.665707e-01	7.155111e-01	
16	Certain_Number	Lung_cancer	-2.536249e-01	6.328336e-02	6.163637e-05	***
17	Certain_Number	Electronic_engineering	9.203717e-01	7.281703e-01	2.062701e-01	
18	Certain_Number	Artificial_intelligence	6.991055e-01	3.682111e-01	5.763200e-02	
19	Certain_Number	Machine_learning	-8.507687e-01	3.900474e-01	2.918694e-02	*
20	Certain_Number	Gender_studies	-4.482301e-01	2.345034e-01	5.597490e-02	
21	Certain_Number	Chemical_engineering	-7.470819e-01	2.737512e-01	6.360124e-03	**
22	Certain_Number	Biophysics	-3.674674e-01	1.679537e-01	2.869387e-02	*
23	Certain_Number	Analytical_chemistry	5.311389e-01	2.978242e-01	7.454493e-02	
24	Certain_Number	Computer_science	-1.515536e-02	1.961629e-01	9.384186e-01	
25	Certain_Number	Radiology	1.473517e-01	6.990715e-02	3.506558e-02	*
26	Certain_Number	Urology	4.019890e-01	1.056941e-01	1.434167e-04	***
27	Certain_Number	Architecture	2.154934e-01	2.399737e-01	3.692088e-01	
28	Certain_Number	Quantum_mechanics	2.529376e-01	9.504826e-01	7.901549e-01	
29	Certain_Number	Particle_physics	5.995129e-01	8.225052e-01	4.660842e-01	
30	Certain_Number	Materials_science	-1.128715e-01	1.417665e-01	4.259424e-01	
31	Certain_Number	Computational_biology	-3.409274e-01	3.490196e-01	3.286792e-01	
32	Certain_Number	Agronomy	-9.878009e-02	1.868620e-01	5.970739e-01	
33	Certain_Number	Environmental_resource management	3.350162e-02	1.077881e-01	7.559500e-01	
34	Certain_Number	Molecular_biology	-1.017168e-01	6.981345e-02	1.451460e-01	
35	Certain_Number	Dermatology	2.521797e-01	9.509705e-02	8.015723e-03	**
36	Certain_Number	Engineering	7.041088e-01	2.531793e-01	5.425810e-03	**
37	Certain_Number	Surgery	2.247965e-01	3.550478e-02	2.508371e-10	***
38	Certain_Number	Public_health	-2.287177e-01	4.838632e-02	2.303450e-06	***
39	Certain_Number	Molecular_physics	1.390593e+00	3.492814e-01	6.891166e-05	***
40	Certain_Number	Bioinformatics	9.525464e-02	1.600507e-01	5.517516e-01	
41	Certain_Number	Physics	-1.645778e-01	1.817700e-01	3.652609e-01	
42	Certain_Number	Cognitive_psychology	-1.615658e-01	9.113908e-02	7.629535e-02	
43	Certain_Number	Oncology	3.425175e-01	6.270263e-02	4.778901e-08	***
44	Certain_Number	Pathology	-6.613642e-02	6.503292e-02	3.091873e-01	
45	Certain_Number	Biochemistry	6.366612e-02	8.905872e-02	4.746972e-01	
46	Certain_Number	Social_science	2.521395e-02	3.544800e-01	9.432959e-01	
47	Certain_Number	Climatology	1.761927e-01	9.846454e-02	7.357319e-02	
48	Certain_Number	Pharmacology	-4.634962e-01	1.421333e-01	1.113058e-03	**
49	Certain_Number	Agriculture	1.785342e-01	1.148738e-01	1.201666e-01	
50	Certain_Number	Neuroscience	-2.605759e-01	7.643253e-02	6.534419e-04	***
51	Certain_Number	Fishery	3.498395e-01	1.635409e-01	3.244152e-02	*
52	Certain_Number	Virology	-2.766294e-01	7.374527e-02	1.767884e-04	***
53	Certain_Number	Microbiology	2.659344e-01	1.096909e-01	1.534729e-02	*
54	Certain_Number	Communication	-5.738790e-01	1.126367e-01	3.536955e-07	***
55	Certain_Number	Endocrinology	4.321964e-02	3.632048e-02	2.340867e-01	
56	Certain_Number	Epigenetics	-1.256545e-01	1.087836e-01	2.480761e-01	
57	Certain_Number	Marketing	-1.444815e-01	1.173507e-01	2.182726e-01	
58	Certain_Number	Global_health	7.247832e-01	1.723841e-01	2.634435e-05	***
59	Certain_Number	Agroforestry	-2.037868e-01	1.506178e-01	1.760769e-01	
60	Certain_Number	Chemistry	-3.728240e-01	1.258140e-01	3.049129e-03	**
61	Certain_Number	Mathematics	5.044919e-01	3.666578e-01	1.688699e-01	
62	Certain_Number	Gynecology	-1.885405e-01	6.015253e-02	1.726035e-03	**
63	Certain_Number	Gerontology	-1.364531e-01	6.374945e-02	3.233612e-02	*
64	Certain_Number	Meteorology	-1.151258e-01	1.905950e-01	5.458320e-01	
65	Certain_Number	Veterinary_medicine	-7.208662e-01	4.351082e-01	9.759374e-02	

66	Certain_Number	Government	-7.773482e-02	1.279646e-01	5.435488e-01	
67	Certain_Number	Dentistry	1.507756e-01	2.359103e-01	5.227544e-01	
68	Certain_Number	Microeconomics	2.584703e-05	2.005184e-01	9.998972e-01	
69	Certain_Number	Sociology	1.430314e-01	2.502141e-01	5.675783e-01	
70	Certain_Number	Emergency_medicine	2.686383e-01	5.334820e-02	4.827989e-07	***
71	Certain_Number	Pediatrics	1.175814e-01	4.285181e-02	6.079575e-03	**
72	Certain_Number	Advertising	3.670273e-01	1.161290e-01	1.578516e-03	**
73	Certain_Number	Oceanography	3.029326e-03	1.769915e-01	9.863446e-01	
74	Certain_Number	Developmental_psychology	5.964269e-02	6.398754e-02	3.513028e-01	
75	Certain_Number	Internal_medicine	2.653652e-01	3.500635e-02	3.674670e-14	***
76	Certain_Number	Cardiology	-6.553795e-02	5.570323e-02	2.393943e-01	
77	Certain_Number	Environmental_engineering	2.538147e-01	1.679733e-01	1.308018e-01	
78	Certain_Number	General_surgery	1.462771e-01	6.496378e-02	2.435957e-02	*
79	Certain_Number	Environmental_science	-2.904045e-02	1.323239e-01	8.262913e-01	
80	Certain_Number	Geophysics	-2.955363e-01	3.435419e-01	3.896600e-01	
81	Certain_Number	Immunology	-1.782613e-01	4.593590e-02	1.046880e-04	***
82	Certain_Number	Clinical_psychology	-3.273513e-02	6.630929e-02	6.215451e-01	
83	Certain_Number	Toxicology	5.669777e-01	2.140637e-01	8.091347e-03	**
84	Certain_Number	Ecology	1.850180e-01	5.108299e-02	2.935440e-04	***
85	Certain_Number	Biology	-1.320305e-01	9.793229e-02	1.776233e-01	
86	Certain_Number	Epidemiology	-1.000484e-01	5.377365e-02	6.283068e-02	
87	Certain_Number	Physical_therapy	7.809445e-02	3.498262e-02	2.560685e-02	*
88	Certain_Number	Physiology	-2.939125e-01	1.350683e-01	2.957104e-02	*
89	Certain_Number	Statistics	-5.536512e-01	4.323380e-01	2.003576e-01	
90	Certain_Number	Psychopathology	-2.857243e-01	1.567805e-01	6.840990e-02	
91	Certain_Number	Animal_science	-7.908161e-02	2.449291e-01	7.467947e-01	
92	Certain_Number	Nursing	1.563805e-01	6.353573e-02	1.385631e-02	*
93	Certain_Number	Seismology	2.995495e-01	2.686747e-01	2.649073e-01	
94	Certain_Number	History	2.592724e+00	7.517655e-01	5.647643e-04	***
95	Certain_Number	Psychiatry	-5.759278e-03	4.453945e-02	8.971164e-01	
96	Certain_Number	Zoology	-8.188208e-02	1.168143e-01	4.833408e-01	
97	Certain_Number	Psychology	3.233777e-01	9.718405e-02	8.787826e-04	***
98	Certain_Number	Etiology	2.373062e-02	1.245940e-01	8.489489e-01	
99	Certain_Number	Geomorphology	-2.879758e-01	1.465650e-01	4.945470e-02	*
100	Certain_Number	Atmospheric_sciences	-3.494302e-01	1.572606e-01	2.630164e-02	*
101	Certain_Number	Geography	1.106072e-01	1.351633e-01	4.131878e-01	
102	Certain_Number	Demography	1.177766e-01	4.106981e-02	4.141060e-03	**
103	Certain_Number	Geology	-2.362485e-01	1.469428e-01	1.079123e-01	
104	Certain_Number	Medicine	6.047733e-01	8.374042e-02	5.406783e-13	***
105	Certain_Number	Family_medicine	1.612269e-02	4.186687e-02	7.001738e-01	
106	Certain_Number	Evolutionary_biology	-2.159382e-01	1.044238e-01	3.866894e-02	*
107	Certain_Number	Astrobiology	-1.207153e-02	2.223387e-01	9.567022e-01	
108	Certain_Number	Astronomy	-3.409237e-01	1.668032e-01	4.098661e-02	*
109	Certain_Number	Astrophysics	-9.119224e-02	2.573058e-01	7.230359e-01	
110	Certain_Number	Geochemistry	-4.338617e-01	2.497727e-01	8.240618e-02	
111	Certain_Number	Business	1.070303e-01	1.426244e-01	4.530064e-01	
112	Certain_Number	Finance	3.223504e-01	1.510880e-01	3.290007e-02	*
113	Certain_Number	Management_science	-8.307473e-12	2.422168e-12	6.059682e-04	***
114	Certain_Number	Social_psychology	-3.996282e-01	4.890762e-02	3.336214e-16	***
115	Certain_Number	Political_science	-1.130388e-02	2.272179e-01	9.603231e-01	
116	Certain_Number	Archaeology	-6.032563e-01	2.209751e-01	6.342432e-03	**
117	Certain_Number	Economics	-1.040828e-01	1.116197e-01	3.511073e-01	
118	Certain_Number	Paleontology	-3.794069e-02	1.367193e-01	7.813945e-01	
119	Certain_Number	Criminology	-6.505262e-02	3.183921e-01	8.381097e-01	
120	Certain_Extent	Intercept	-3.725410e-01	5.367789e-02	4.097312e-12	***
121	Certain_Extent	source[T.news]	3.123037e-03	7.541623e-03	6.788027e-01	
122	Certain_Extent	finding_len	9.380603e-03	4.256270e-04	1.009276e-105	***
123	Certain_Extent	flesch_reading_ease	2.641308e-03	1.697675e-04	4.268109e-54	***
124	Certain_Extent	first_author_rank	1.392175e-05	2.173877e-06	1.564327e-10	***
125	Certain_Extent	affi_rank	-2.632459e-06	2.168077e-06	2.246969e-01	
126	Certain_Extent	num_authors	1.326017e-03	2.955833e-04	7.315738e-06	***
127	Certain_Extent	journal_impact	1.971570e-04	3.047555e-04	5.176855e-01	
128	Certain_Extent	Law	1.365785e-01	1.478179e-01	3.555217e-01	
129	Certain_Extent	Condensed_matter_physics	-3.726838e-01	3.011666e-01	2.159359e-01	
130	Certain_Extent	Biomedical_engineering	-3.047912e-01	2.845303e-01	2.840956e-01	
131	Certain_Extent	Hydrology	-3.089827e-01	2.495557e-01	2.156897e-01	
132	Certain_Extent	Atomic_physics	-3.859061e-01	3.542185e-01	2.759721e-01	
133	Certain_Extent	Development_economics	-6.149000e-02	4.030912e-01	8.787586e-01	
134	Certain_Extent	Optics	-3.448521e-01	4.397638e-01	4.329513e-01	
135	Certain_Extent	Public_policy	1.278272e-01	2.705637e-01	6.366151e-01	

136	Certain_Extent	Lung_cancer	-2.517175e-01	6.423128e-02	8.939909e-05	***
137	Certain_Extent	Electronic_engineering	2.202177e+00	7.390775e-01	2.891287e-03	**
138	Certain_Extent	Artificial_intelligence	-4.519185e-02	3.737265e-01	9.037545e-01	
139	Certain_Extent	Machine_learning	-5.946431e-01	3.958899e-01	1.331105e-01	
140	Certain_Extent	Gender_studies	1.206807e-01	2.380160e-01	6.121439e-01	
141	Certain_Extent	Chemical_engineering	-5.676854e-01	2.778516e-01	4.106019e-02	*
142	Certain_Extent	Biophysics	-3.503262e-01	1.704694e-01	3.989233e-02	*
143	Certain_Extent	Analytical_chemistry	5.275629e-01	3.022853e-01	8.096520e-02	
144	Certain_Extent	Computer_science	2.985267e-01	1.991012e-01	1.338014e-01	
145	Certain_Extent	Radiology	3.263423e-02	7.095428e-02	6.455718e-01	
146	Certain_Extent	Urology	1.113795e-01	1.072772e-01	2.991776e-01	
147	Certain_Extent	Architecture	-1.576639e-01	2.435682e-01	5.174434e-01	
148	Certain_Extent	Quantum_mechanics	-1.508489e+00	9.647197e-01	1.179228e-01	
149	Certain_Extent	Particle_physics	1.019965e+00	8.348254e-01	2.218164e-01	
150	Certain_Extent	Materials_science	-1.670032e-02	1.438900e-01	9.076043e-01	
151	Certain_Extent	Computational_biology	-7.717124e-02	3.542475e-01	8.275529e-01	
152	Certain_Extent	Agronomy	1.629951e-02	1.896609e-01	9.315152e-01	
153	Certain_Extent	Environmental_resource management	5.206592e-01	1.094026e-01	1.965323e-06	***
154	Certain_Extent	Molecular_biology	-1.414140e-01	7.085917e-02	4.598687e-02	*
155	Certain_Extent	Dermatology	-1.059578e-01	9.652149e-02	2.723280e-01	
156	Certain_Extent	Engineering	6.541285e-01	2.569716e-01	1.092266e-02	*
157	Certain_Extent	Surgery	1.853908e-01	3.603660e-02	2.721023e-07	***
158	Certain_Extent	Public_health	-1.145067e-01	4.911109e-02	1.973763e-02	*
159	Certain_Extent	Molecular_physics	-3.665798e-01	3.545133e-01	3.011381e-01	
160	Certain_Extent	Bioinformatics	4.947193e-01	1.624481e-01	2.328352e-03	**
161	Certain_Extent	Physics	9.801933e-02	1.844927e-01	5.952261e-01	
162	Certain_Extent	Cognitive_psychology	-4.366194e-01	9.250424e-02	2.383016e-06	***
163	Certain_Extent	Oncology	2.287968e-01	6.364184e-02	3.255019e-04	***
164	Certain_Extent	Pathology	-9.240980e-02	6.600704e-02	1.615373e-01	
165	Certain_Extent	Biochemistry	-1.649307e-01	9.039272e-02	6.808398e-02	
166	Certain_Extent	Social_science	5.808280e-01	3.597897e-01	1.064748e-01	
167	Certain_Extent	Climatology	4.158299e-02	9.993942e-02	6.773569e-01	
168	Certain_Extent	Pharmacology	-3.630674e-01	1.442623e-01	1.185724e-02	*
169	Certain_Extent	Agriculture	-2.610968e-01	1.165945e-01	2.514940e-02	*
170	Certain_Extent	Neuroscience	-3.724170e-01	7.757740e-02	1.599561e-06	***
171	Certain_Extent	Fishery	-1.058346e-01	1.659905e-01	5.237489e-01	
172	Certain_Extent	Virology	-9.194626e-02	7.484989e-02	2.193158e-01	
173	Certain_Extent	Microbiology	1.047860e-01	1.113340e-01	3.466267e-01	
174	Certain_Extent	Communication	-4.888373e-01	1.143239e-01	1.917212e-05	***
175	Certain_Extent	Endocrinology	-8.575610e-02	3.686451e-02	2.002042e-02	*
176	Certain_Extent	Epigenetics	-2.715432e-01	1.104131e-01	1.393218e-02	*
177	Certain_Extent	Marketing	-2.134733e-01	1.191085e-01	7.311454e-02	
178	Certain_Extent	Global_health	-9.930930e-02	1.749662e-01	5.703224e-01	
179	Certain_Extent	Agroforestry	3.078368e-01	1.528738e-01	4.406513e-02	*
180	Certain_Extent	Chemistry	-6.882521e-02	1.276985e-01	5.899192e-01	
181	Certain_Extent	Mathematics	4.593218e-01	3.721499e-01	2.171362e-01	
182	Certain_Extent	Gynecology	-2.050583e-01	6.105354e-02	7.854449e-04	***
183	Certain_Extent	Gerontology	-1.939865e-01	6.470434e-02	2.722300e-03	**
184	Certain_Extent	Meteorology	2.738084e-01	1.934499e-01	1.569760e-01	
185	Certain_Extent	Veterinary_medicine	-3.434918e-01	4.416256e-01	4.367072e-01	
186	Certain_Extent	Government	4.443504e-01	1.298814e-01	6.253600e-04	***
187	Certain_Extent	Dentistry	-3.602740e-01	2.394440e-01	1.324441e-01	
188	Certain_Extent	Microeconomics	2.242987e-01	2.035219e-01	2.704445e-01	
189	Certain_Extent	Sociology	2.229463e-01	2.539620e-01	3.800291e-01	
190	Certain_Extent	Emergency_medicine	1.153556e-01	5.414729e-02	3.315694e-02	*
191	Certain_Extent	Pediatrics	1.970765e-02	4.349368e-02	6.504733e-01	
192	Certain_Extent	Advertising	2.553217e-01	1.178685e-01	3.031727e-02	*
193	Certain_Extent	Oceanography	-2.076142e-01	1.796427e-01	2.478225e-01	
194	Certain_Extent	Developmental_psychology	-1.242801e-01	6.494599e-02	5.569417e-02	
195	Certain_Extent	Internal_medicine	2.739139e-01	3.553071e-02	1.357309e-14	***
196	Certain_Extent	Cardiology	-4.090315e-02	5.653760e-02	4.694053e-01	
197	Certain_Extent	Environmental_engineering	-1.736697e-01	1.704893e-01	3.083860e-01	
198	Certain_Extent	General_surgery	6.937721e-02	6.593686e-02	2.927381e-01	
199	Certain_Extent	Environmental_science	2.023994e-01	1.343059e-01	1.318342e-01	
200	Certain_Extent	Geophysics	-5.916370e-02	3.486877e-01	8.652681e-01	
201	Certain_Extent	Immunology	-1.857359e-01	4.662396e-02	6.821848e-05	***
202	Certain_Extent	Clinical_psychology	2.190159e-01	6.730252e-02	1.140016e-03	**
203	Certain_Extent	Toxicology	7.894684e-02	2.172701e-01	7.163433e-01	
204	Certain_Extent	Ecology	1.343534e-01	5.184816e-02	9.572443e-03	**

205	Certain_Extent	Biology	-2.735608e-02	9.939920e-02	7.831560e-01	
206	Certain_Extent	Epidemiology	-3.071022e-03	5.457912e-02	9.551297e-01	
207	Certain_Extent	Physical_therapy	4.883960e-02	3.550662e-02	1.689979e-01	
208	Certain_Extent	Physiology	-1.981651e-01	1.370915e-01	1.483429e-01	
209	Certain_Extent	Statistics	-6.162491e-01	4.388139e-01	1.602379e-01	
210	Certain_Extent	Psychopathology	-1.146569e-01	1.591289e-01	4.712125e-01	
211	Certain_Extent	Animal_science	5.840241e-02	2.485979e-01	8.142689e-01	
212	Certain_Extent	Nursing	1.867469e-01	6.448742e-02	3.787413e-03	**
213	Certain_Extent	Seismology	1.731103e-01	2.726992e-01	5.255680e-01	
214	Certain_Extent	History	2.654922e+00	7.630261e-01	5.040567e-04	***
215	Certain_Extent	Psychiatry	1.513048e-01	4.520660e-02	8.193273e-04	***
216	Certain_Extent	Zoology	-1.047777e-01	1.185640e-01	3.768623e-01	
217	Certain_Extent	Psychology	4.528562e-01	9.863976e-02	4.452217e-06	***
218	Certain_Extent	Etiology	-1.697349e-01	1.264603e-01	1.795549e-01	
219	Certain_Extent	Geomorphology	-1.354648e-01	1.487604e-01	3.625103e-01	
220	Certain_Extent	Atmospheric_sciences	-2.076946e-01	1.596162e-01	1.932087e-01	
221	Certain_Extent	Geography	8.390256e-02	1.371879e-01	5.408205e-01	
222	Certain_Extent	Demography	1.390486e-01	4.168498e-02	8.532247e-04	***
223	Certain_Extent	Geology	-7.713766e-02	1.491438e-01	6.050231e-01	
224	Certain_Extent	Medicine	7.589976e-01	8.499475e-02	4.826915e-19	***
225	Certain_Extent	Family_medicine	5.400884e-02	4.249399e-02	2.037599e-01	
226	Certain_Extent	Evolutionary_biology	-1.674566e-01	1.059880e-01	1.141405e-01	
227	Certain_Extent	Astrobiology	-4.670557e-02	2.256691e-01	8.360405e-01	
228	Certain_Extent	Astronomy	-1.627684e-01	1.693017e-01	3.363638e-01	
229	Certain_Extent	Astrophysics	-2.081467e-01	2.611599e-01	4.254605e-01	
230	Certain_Extent	Geochemistry	-3.457197e-01	2.535140e-01	1.726823e-01	
231	Certain_Extent	Business	2.450527e-01	1.447607e-01	9.051514e-02	
232	Certain_Extent	Finance	1.139189e-01	1.533511e-01	4.575778e-01	
233	Certain_Extent	Management_science	5.511531e-13	2.458450e-12	8.226151e-01	
234	Certain_Extent	Social_psychology	-3.012274e-01	4.964020e-02	1.329216e-09	***
235	Certain_Extent	Political_science	2.370012e-01	2.306214e-01	3.041272e-01	
236	Certain_Extent	Archaeology	-2.017902e-01	2.242851e-01	3.682943e-01	
237	Certain_Extent	Economics	1.377498e-02	1.132916e-01	9.032266e-01	
238	Certain_Extent	Paleontology	-5.052782e-02	1.387672e-01	7.157748e-01	
239	Certain_Extent	Criminology	3.196030e-01	3.231612e-01	3.226867e-01	
240	Certain_Probability	Intercept	1.057673e+00	5.278880e-02	5.595374e-88	***
241	Certain_Probability	source[T.news]	1.140286e-02	7.416707e-03	1.242060e-01	
242	Certain_Probability	finding_len	-3.860967e-04	4.185771e-04	3.563356e-01	
243	Certain_Probability	flesch_reading_ease	-2.132858e-03	1.669555e-04	3.773613e-37	***
244	Certain_Probability	first_author_rank	-5.539980e-06	2.137871e-06	9.570546e-03	**
245	Certain_Probability	affi_rank	-1.830132e-06	2.132167e-06	3.907183e-01	
246	Certain_Probability	num_authors	-1.020527e-03	2.906874e-04	4.483746e-04	***
247	Certain_Probability	journal_impact	-1.165746e-04	2.997077e-04	6.973115e-01	
248	Certain_Probability	Law	-5.092831e-01	1.453695e-01	4.609483e-04	***
249	Certain_Probability	Condensed_matter_physics	4.918260e-02	2.961782e-01	8.681143e-01	
250	Certain_Probability	Biomedical_engineering	1.025878e-01	2.798175e-01	7.139056e-01	
251	Certain_Probability	Hydrology	2.642196e-01	2.454222e-01	2.816824e-01	
252	Certain_Probability	Atomic_physics	3.699017e-01	3.483514e-01	2.883172e-01	
253	Certain_Probability	Development_economics	-3.480610e-01	3.964146e-01	3.799476e-01	
254	Certain_Probability	Optics	-2.425676e-01	4.324798e-01	5.748915e-01	
255	Certain_Probability	Public_policy	5.261578e-01	2.660822e-01	4.801452e-02	*
256	Certain_Probability	Lung_cancer	-3.718721e-02	6.316739e-02	5.560667e-01	
257	Certain_Probability	Electronic_engineering	-1.018596e+00	7.268358e-01	1.611150e-01	
258	Certain_Probability	Artificial_intelligence	-9.673953e-03	3.675363e-01	9.790016e-01	
259	Certain_Probability	Machine_learning	-1.233860e+00	3.893326e-01	1.532289e-03	**
260	Certain_Probability	Gender_studies	-6.981121e-02	2.340736e-01	7.655212e-01	
261	Certain_Probability	Chemical_engineering	3.574786e-01	2.732495e-01	1.908116e-01	
262	Certain_Probability	Biophysics	7.002946e-02	1.676459e-01	6.761568e-01	
263	Certain_Probability	Analytical_chemistry	-1.352697e-02	2.972784e-01	9.637073e-01	
264	Certain_Probability	Computer_science	-1.124246e-01	1.958034e-01	5.658620e-01	
265	Certain_Probability	Radiology	-3.494218e-01	6.977903e-02	5.584781e-07	***
266	Certain_Probability	Urology	2.756886e-01	1.055004e-01	8.981409e-03	**
267	Certain_Probability	Architecture	9.967873e-02	2.395339e-01	6.773172e-01	
268	Certain_Probability	Quantum_mechanics	2.234456e-01	9.487406e-01	8.138103e-01	
269	Certain_Probability	Particle_physics	-8.270649e-01	8.209978e-01	3.137661e-01	
270	Certain_Probability	Materials_science	8.252067e-02	1.415067e-01	5.597974e-01	
271	Certain_Probability	Computational_biology	9.112046e-02	3.483800e-01	7.936688e-01	
272	Certain_Probability	Agronomy	-6.708054e-01	1.865195e-01	3.237984e-04	***
273	Certain_Probability	Environmental_resource management	-3.221610e-01	1.075905e-01	2.755683e-03	**

274	Certain_Probability	Molecular_biology	2.528035e-01	6.968550e-02	2.869625e-04	***
275	Certain_Probability	Dermatology	-7.976077e-02	9.492276e-02	4.007723e-01	
276	Certain_Probability	Engineering	-2.793733e-01	2.527153e-01	2.689693e-01	
277	Certain_Probability	Surgery	-1.505434e-01	3.543971e-02	2.173059e-05	***
278	Certain_Probability	Public_health	-5.403332e-02	4.829764e-02	2.632645e-01	
279	Certain_Probability	Molecular_physics	-7.577515e-01	3.486413e-01	2.976501e-02	*
280	Certain_Probability	Bioinformatics	1.550535e-01	1.597574e-01	3.317875e-01	
281	Certain_Probability	Physics	-1.944527e-01	1.814369e-01	2.838577e-01	
282	Certain_Probability	Cognitive_psychology	2.942587e-02	9.097205e-02	7.463516e-01	
283	Certain_Probability	Oncology	3.683397e-02	6.258772e-02	5.561952e-01	
284	Certain_Probability	Pathology	1.175878e-02	6.491373e-02	8.562568e-01	
285	Certain_Probability	Biochemistry	-3.770012e-02	8.889551e-02	6.715037e-01	
286	Certain_Probability	Social_science	-3.625727e-01	3.538303e-01	3.055201e-01	
287	Certain_Probability	Climatology	-1.220393e-01	9.828408e-02	2.143697e-01	
288	Certain_Probability	Pharmacology	-3.167762e-01	1.418728e-01	2.557779e-02	*
289	Certain_Probability	Agriculture	-1.207421e-01	1.146633e-01	2.923541e-01	
290	Certain_Probability	Neuroscience	3.054862e-01	7.629246e-02	6.258615e-05	***
291	Certain_Probability	Fishery	4.684407e-03	1.632412e-01	9.771073e-01	
292	Certain_Probability	Virology	1.626963e-01	7.361012e-02	2.710559e-02	*
293	Certain_Probability	Microbiology	4.096613e-02	1.094899e-01	7.082955e-01	
294	Certain_Probability	Communication	1.237673e-01	1.124303e-01	2.709885e-01	
295	Certain_Probability	Endocrinology	-6.679883e-02	3.625391e-02	6.542069e-02	
296	Certain_Probability	Epigenetics	4.149017e-02	1.085843e-01	7.023925e-01	
297	Certain_Probability	Marketing	1.437026e-02	1.171357e-01	9.023620e-01	
298	Certain_Probability	Global_health	-5.832284e-01	1.720682e-01	7.022258e-04	***
299	Certain_Probability	Agroforestry	2.161389e-01	1.503417e-01	1.505570e-01	
300	Certain_Probability	Chemistry	-7.382883e-02	1.255834e-01	5.566183e-01	
301	Certain_Probability	Mathematics	6.952355e-01	3.659858e-01	5.750445e-02	
302	Certain_Probability	Gynecology	8.237331e-02	6.004229e-02	1.701114e-01	
303	Certain_Probability	Gerontology	1.024956e-01	6.363261e-02	1.072604e-01	
304	Certain_Probability	Meteorology	-1.369272e-02	1.902457e-01	9.426238e-01	
305	Certain_Probability	Veterinary_medicine	-1.214073e+00	4.343108e-01	5.191085e-03	**
306	Certain_Probability	Government	3.169118e-02	1.277301e-01	8.040528e-01	
307	Certain_Probability	Dentistry	-1.458771e-01	2.354779e-01	5.356021e-01	
308	Certain_Probability	Microeconomics	1.458212e-01	2.001509e-01	4.662860e-01	
309	Certain_Probability	Sociology	2.030989e-01	2.497555e-01	4.161236e-01	
310	Certain_Probability	Emergency_medicine	-2.357244e-01	5.325043e-02	9.645601e-06	***
311	Certain_Probability	Pediatrics	-1.287140e-02	4.277328e-02	7.634792e-01	
312	Certain_Probability	Advertising	1.967876e-01	1.159162e-01	8.959371e-02	
313	Certain_Probability	Oceanography	-2.133652e-01	1.766672e-01	2.271753e-01	
314	Certain_Probability	Developmental_psychology	-6.265838e-02	6.387027e-02	3.265982e-01	
315	Certain_Probability	Internal_medicine	-1.611868e-01	3.494220e-02	4.007552e-06	***
316	Certain_Probability	Cardiology	1.304456e-02	5.560114e-02	8.145155e-01	
317	Certain_Probability	Environmental_engineering	8.438197e-02	1.676654e-01	6.147788e-01	
318	Certain_Probability	General_surgery	-2.201872e-01	6.484472e-02	6.868047e-04	***
319	Certain_Probability	Environmental_science	-1.493249e-01	1.320813e-01	2.582642e-01	
320	Certain_Probability	Geophysics	8.962791e-02	3.429123e-01	7.938092e-01	
321	Certain_Probability	Immunology	-8.468416e-03	4.585171e-02	8.534740e-01	
322	Certain_Probability	Clinical_psychology	9.070337e-02	6.618776e-02	1.705872e-01	
323	Certain_Probability	Toxicology	-4.088290e-02	2.136713e-01	8.482658e-01	
324	Certain_Probability	Ecology	-3.310122e-02	5.098937e-02	5.162342e-01	
325	Certain_Probability	Biology	-1.433171e-01	9.775281e-02	1.426403e-01	
326	Certain_Probability	Epidemiology	1.478488e-01	5.367510e-02	5.886097e-03	**
327	Certain_Probability	Physical_therapy	3.218247e-02	3.491851e-02	3.567308e-01	
328	Certain_Probability	Physiology	4.057837e-01	1.348208e-01	2.619187e-03	**
329	Certain_Probability	Statistics	3.488985e-01	4.315457e-01	4.188258e-01	
330	Certain_Probability	Psychopathology	3.253989e-01	1.564931e-01	3.760766e-02	*
331	Certain_Probability	Animal_science	4.519898e-01	2.444802e-01	6.451240e-02	
332	Certain_Probability	Nursing	2.752909e-03	6.341929e-02	9.653769e-01	
333	Certain_Probability	Seismology	-5.297603e-01	2.681823e-01	4.824680e-02	*
334	Certain_Probability	History	2.145436e-01	7.503878e-01	7.749514e-01	
335	Certain_Probability	Psychiatry	-6.302632e-02	4.445782e-02	1.563123e-01	
336	Certain_Probability	Zoology	-3.362137e-02	1.166002e-01	7.730854e-01	
337	Certain_Probability	Psychology	-2.139657e-01	9.700594e-02	2.742258e-02	*
338	Certain_Probability	Etiology	2.239209e-02	1.243657e-01	7.180423e-01	
339	Certain_Probability	Geomorphology	-3.389201e-01	1.462964e-01	2.053726e-02	*
340	Certain_Probability	Atmospheric_sciences	-1.519203e-01	1.569724e-01	3.331545e-01	
341	Certain_Probability	Geography	3.328585e-02	1.349156e-01	8.051318e-01	
342	Certain_Probability	Demography	-7.380299e-02	4.099454e-02	7.183434e-02	
343	Certain_Probability	Geology	3.815501e-02	1.466735e-01	7.947632e-01	

344	Certain_Probability	Medicine	-3.045784e-01	8.358695e-02	2.696304e-04	***
345	Certain_Probability	Family_medicine	-1.332693e-01	4.179014e-02	1.430970e-03	**
346	Certain_Probability	Evolutionary_biology	4.378143e-02	1.042324e-01	6.744657e-01	
347	Certain_Probability	Astrobiology	-3.428794e-01	2.219312e-01	1.223753e-01	
348	Certain_Probability	Astronomy	-4.474937e-01	1.664975e-01	7.203928e-03	**
349	Certain_Probability	Astrophysics	4.396899e-01	2.568342e-01	8.692783e-02	
350	Certain_Probability	Geochemistry	-4.068889e-01	2.493150e-01	1.026978e-01	
351	Certain_Probability	Business	-2.516853e-01	1.423630e-01	7.709892e-02	
352	Certain_Probability	Finance	-5.942051e-01	1.508111e-01	8.188490e-05	***
353	Certain_Probability	Management_science	1.649390e-12	2.417729e-12	4.951207e-01	
354	Certain_Probability	Social_psychology	1.217276e-01	4.881799e-02	1.266140e-02	*
355	Certain_Probability	Political_science	-8.910235e-03	2.268015e-01	9.686626e-01	
356	Certain_Probability	Archaeology	4.545359e-02	2.205702e-01	8.367370e-01	
357	Certain_Probability	Economics	-2.313705e-01	1.114151e-01	3.785310e-02	*
358	Certain_Probability	Paleontology	-2.146638e-01	1.364687e-01	1.157456e-01	
359	Certain_Probability	Criminology	4.886135e-01	3.178086e-01	1.242084e-01	
360	Certain_Condition	Intercept	9.776916e-02	2.176721e-02	7.130358e-06	***
361	Certain_Condition	source[T.news]	9.577395e-03	3.058244e-03	1.742022e-03	**
362	Certain_Condition	finding_len	7.910887e-04	1.725983e-04	4.616976e-06	***
363	Certain_Condition	flesch_reading_ease	-1.082471e-04	6.884332e-05	1.158893e-01	
364	Certain_Condition	first_author_rank	-2.340008e-06	8.815408e-07	7.953349e-03	**
365	Certain_Condition	affi_rank	1.260599e-09	8.791888e-07	9.988560e-01	
366	Certain_Condition	num_authors	-3.395863e-04	1.198636e-04	4.616864e-03	**
367	Certain_Condition	journal_impact	-2.897048e-05	1.235831e-04	8.146617e-01	
368	Certain_Condition	Law	7.879067e-02	5.994242e-02	1.887215e-01	
369	Certain_Condition	Condensed_matter_physics	-5.647359e-02	1.221277e-01	6.437920e-01	
370	Certain_Condition	Biomedical_engineering	-9.133277e-02	1.153814e-01	4.286243e-01	
371	Certain_Condition	Hydrology	-2.043647e-02	1.011987e-01	8.399636e-01	
372	Certain_Condition	Atomic_physics	-8.560960e-02	1.436410e-01	5.511877e-01	
373	Certain_Condition	Development_economics	-1.207499e-01	1.634597e-01	4.600940e-01	
374	Certain_Condition	Optics	-9.524136e-02	1.783310e-01	5.933017e-01	
375	Certain_Condition	Public_policy	2.634518e-01	1.097177e-01	1.635630e-02	*
376	Certain_Condition	Lung_cancer	4.435076e-02	2.604677e-02	8.864142e-02	
377	Certain_Condition	Electronic_engineering	-1.107907e-01	2.997073e-01	7.116396e-01	
378	Certain_Condition	Artificial_intelligence	-2.591684e-01	1.515518e-01	8.727168e-02	
379	Certain_Condition	Machine_learning	6.191988e-01	1.605394e-01	1.153440e-04	***
380	Certain_Condition	Gender_studies	-1.239457e-02	9.651916e-02	8.978220e-01	
381	Certain_Condition	Chemical_engineering	2.628615e-01	1.126731e-01	1.966555e-02	*
382	Certain_Condition	Biophysics	-4.720782e-02	6.912797e-02	4.946791e-01	
383	Certain_Condition	Analytical_chemistry	-9.921090e-02	1.225813e-01	4.183301e-01	
384	Certain_Condition	Computer_science	1.392071e-02	8.073860e-02	8.631124e-01	
385	Certain_Condition	Radiology	4.483246e-03	2.877305e-02	8.761820e-01	
386	Certain_Condition	Urology	-1.024062e-02	4.350257e-02	8.138999e-01	
387	Certain_Condition	Architecture	-9.140980e-02	9.877068e-02	3.547360e-01	
388	Certain_Condition	Quantum_mechanics	-1.312127e-01	3.912087e-01	7.373262e-01	
389	Certain_Condition	Particle_physics	1.314888e-03	3.385346e-01	9.969010e-01	
390	Certain_Condition	Materials_science	-8.966622e-02	5.834960e-02	1.243894e-01	
391	Certain_Condition	Computational_biology	-7.766247e-02	1.436528e-01	5.887746e-01	
392	Certain_Condition	Agronomy	-5.676933e-02	7.691043e-02	4.604532e-01	
393	Certain_Condition	Environmental_resource management	2.139994e-02	4.436444e-02	6.295533e-01	
394	Certain_Condition	Molecular_biology	-2.461304e-02	2.873449e-02	3.916994e-01	
395	Certain_Condition	Dermatology	-3.553819e-02	3.914095e-02	3.639192e-01	
396	Certain_Condition	Engineering	-1.302261e-01	1.042060e-01	2.114319e-01	
397	Certain_Condition	Surgery	-7.269878e-02	1.461340e-02	6.614543e-07	***
398	Certain_Condition	Public_health	2.573100e-02	1.991530e-02	1.963725e-01	
399	Certain_Condition	Molecular_physics	-8.664672e-02	1.437606e-01	5.467085e-01	
400	Certain_Condition	Bioinformatics	-7.633961e-02	6.587520e-02	2.465377e-01	
401	Certain_Condition	Physics	-2.141574e-02	7.481463e-02	7.746907e-01	
402	Certain_Condition	Cognitive_psychology	-3.092240e-02	3.751189e-02	4.097638e-01	
403	Certain_Condition	Oncology	5.231722e-02	2.580775e-02	4.266323e-02	*
404	Certain_Condition	Pathology	-5.046651e-02	2.676687e-02	5.939677e-02	
405	Certain_Condition	Biochemistry	-3.227280e-02	3.665564e-02	3.786415e-01	
406	Certain_Condition	Social_science	-2.146332e-01	1.459003e-01	1.412894e-01	
407	Certain_Condition	Climatology	1.172965e-03	4.052698e-02	9.769106e-01	
408	Certain_Condition	Pharmacology	4.859199e-02	5.850057e-02	4.062011e-01	
409	Certain_Condition	Agriculture	-5.938870e-02	4.728087e-02	2.091083e-01	
410	Certain_Condition	Neuroscience	-3.513996e-03	3.145883e-02	9.110619e-01	
411	Certain_Condition	Fishery	-2.060256e-02	6.731171e-02	7.595510e-01	
412	Certain_Condition	Virology	-1.915763e-02	3.035278e-02	5.279434e-01	

413	Certain_Condition	Microbiology	6.088217e-02	4.514764e-02	1.775169e-01	
414	Certain_Condition	Communication	2.784153e-01	4.636010e-02	1.958185e-09	***
415	Certain_Condition	Endocrinology	-2.988003e-02	1.494913e-02	4.565276e-02	*
416	Certain_Condition	Epigenetics	3.062971e-02	4.477421e-02	4.939287e-01	
417	Certain_Condition	Marketing	-5.156308e-02	4.830033e-02	2.857427e-01	
418	Certain_Condition	Global_health	1.247554e-01	7.095151e-02	7.871654e-02	
419	Certain_Condition	Agroforestry	-1.285461e-01	6.199269e-02	3.813903e-02	*
420	Certain_Condition	Chemistry	-1.958057e-01	5.178371e-02	1.567567e-04	***
421	Certain_Condition	Mathematics	-3.481756e-01	1.509125e-01	2.106285e-02	*
422	Certain_Condition	Gynecology	2.740499e-02	2.475815e-02	2.683543e-01	
423	Certain_Condition	Gerontology	-4.481767e-02	2.623861e-02	8.764508e-02	
424	Certain_Condition	Meteorology	-2.454682e-01	7.844692e-02	1.757291e-03	**
425	Certain_Condition	Veterinary_medicine	-9.408361e-02	1.790860e-01	5.993458e-01	
426	Certain_Condition	Government	-9.671124e-02	5.266890e-02	6.634908e-02	
427	Certain_Condition	Dentistry	-6.633945e-02	9.709821e-02	4.944799e-01	
428	Certain_Condition	Microeconomics	-1.839182e-01	8.253127e-02	2.586637e-02	*
429	Certain_Condition	Sociology	7.075854e-02	1.029855e-01	4.920491e-01	
430	Certain_Condition	Emergency_medicine	5.873041e-03	2.195756e-02	7.891097e-01	
431	Certain_Condition	Pediatrics	-4.453224e-02	1.763736e-02	1.158548e-02	*
432	Certain_Condition	Advertising	-1.297368e-01	4.779750e-02	6.650310e-03	**
433	Certain_Condition	Oceanography	-1.678544e-01	7.284787e-02	2.122833e-02	*
434	Certain_Condition	Developmental_psychology	7.400457e-02	2.633660e-02	4.962269e-03	**
435	Certain_Condition	Internal_medicine	-4.533502e-02	1.440825e-02	1.656297e-03	**
436	Certain_Condition	Cardiology	2.001239e-02	2.292687e-02	3.827449e-01	
437	Certain_Condition	Environmental_engineering	-1.842664e-01	6.913604e-02	7.702062e-03	**
438	Certain_Condition	General_surgery	-5.081619e-02	2.673841e-02	5.739032e-02	
439	Certain_Condition	Environmental_science	1.036854e-01	5.446312e-02	5.696175e-02	
440	Certain_Condition	Geophysics	4.309711e-01	1.413982e-01	2.308891e-03	**
441	Certain_Condition	Immunology	-1.602773e-02	1.890673e-02	3.966060e-01	
442	Certain_Condition	Clinical_psychology	-6.853400e-02	2.729221e-02	1.204687e-02	*
443	Certain_Condition	Toxicology	3.852756e-01	8.810637e-02	1.235865e-05	***
444	Certain_Condition	Ecology	-2.117069e-04	2.102523e-02	9.919662e-01	
445	Certain_Condition	Biology	-1.224078e-01	4.030791e-02	2.395609e-03	**
446	Certain_Condition	Epidemiology	6.585129e-02	2.213267e-02	2.932407e-03	**
447	Certain_Condition	Physical_therapy	-3.128475e-02	1.439848e-02	2.981471e-02	*
448	Certain_Condition	Physiology	-7.763389e-02	5.559271e-02	1.625949e-01	
449	Certain_Condition	Statistics	-1.690406e-01	1.779458e-01	3.421526e-01	
450	Certain_Condition	Psychopathology	-7.429194e-02	6.452921e-02	2.496333e-01	
451	Certain_Condition	Animal_science	-5.952692e-02	1.008103e-01	5.548760e-01	
452	Certain_Condition	Nursing	-4.568915e-02	2.615064e-02	8.063450e-02	
453	Certain_Condition	Seismology	-1.083419e-02	1.105837e-01	9.219555e-01	
454	Certain_Condition	History	-1.645156e-01	3.094188e-01	5.949481e-01	
455	Certain_Condition	Psychiatry	-1.243366e-02	1.833197e-02	4.976253e-01	
456	Certain_Condition	Zoology	4.381916e-02	4.807953e-02	3.621072e-01	
457	Certain_Condition	Psychology	-6.183735e-02	3.999994e-02	1.221443e-01	
458	Certain_Condition	Etiology	-6.847151e-02	5.128160e-02	1.818321e-01	
459	Certain_Condition	Geomorphology	-1.541098e-01	6.032463e-02	1.063997e-02	*
460	Certain_Condition	Atmospheric_sciences	-1.274566e-01	6.472682e-02	4.895745e-02	*
461	Certain_Condition	Geography	2.070757e-01	5.563179e-02	1.982809e-04	***
462	Certain_Condition	Demography	7.114067e-02	1.690390e-02	2.587511e-05	***
463	Certain_Condition	Geology	3.239898e-02	6.048011e-02	5.921775e-01	
464	Certain_Condition	Medicine	-8.602196e-02	3.446668e-02	1.257957e-02	*
465	Certain_Condition	Family_medicine	-3.798406e-02	1.723197e-02	2.752214e-02	*
466	Certain_Condition	Evolutionary_biology	2.446438e-02	4.297975e-02	5.692254e-01	
467	Certain_Condition	Astrobiology	-1.853467e-01	9.151229e-02	4.284916e-02	*
468	Certain_Condition	Astronomy	-1.098202e-01	6.865445e-02	1.097099e-01	
469	Certain_Condition	Astrophysics	-6.442768e-02	1.059044e-01	5.429612e-01	
470	Certain_Condition	Geochemistry	-1.622523e-01	1.028038e-01	1.145277e-01	
471	Certain_Condition	Business	1.974802e-02	5.870270e-02	7.365691e-01	
472	Certain_Condition	Finance	-1.195103e-01	6.218625e-02	5.465111e-02	
473	Certain_Condition	Management_science	2.057818e-12	9.969393e-13	3.902452e-02	*
474	Certain_Condition	Social_psychology	-7.944953e-03	2.012987e-02	6.930820e-01	
475	Certain_Condition	Political_science	-5.904802e-02	9.352052e-02	5.277959e-01	
476	Certain_Condition	Archaeology	-4.046136e-02	9.095106e-02	6.564213e-01	
477	Certain_Condition	Economics	1.861374e-03	4.594149e-02	9.676822e-01	
478	Certain_Condition	Paleontology	-7.289507e-02	5.627223e-02	1.952051e-01	
479	Certain_Condition	Criminology	1.582040e-01	1.310469e-01	2.273646e-01	
480	Certain_Suggestion	Intercept	1.337516e-02	1.628080e-02	4.113597e-01	
481	Certain_Suggestion	source[T.news]	2.060145e-03	2.287416e-03	3.677949e-01	
482	Certain_Suggestion	finding_len	-2.033606e-04	1.290950e-04	1.152163e-01	

483	Certain_Suggestion	flesch_reading_ease	-2.718805e-04	5.149141e-05	1.311762e-07	***
484	Certain_Suggestion	first_author_rank	-1.291753e-06	6.593491e-07	5.011832e-02	
485	Certain_Suggestion	affi_rank	1.356428e-06	6.575899e-07	3.915834e-02	*
486	Certain_Suggestion	num_authors	3.116718e-05	8.965205e-05	7.281116e-01	
487	Certain_Suggestion	journal_impact	-2.090195e-04	9.243404e-05	2.375816e-02	*
488	Certain_Suggestion	Law	1.435503e-02	4.483397e-02	7.488356e-01	
489	Certain_Suggestion	Condensed_matter_physics	1.763714e-01	9.134549e-02	5.352734e-02	
490	Certain_Suggestion	Biomedical_engineering	-2.298391e-02	8.629962e-02	7.899917e-01	
491	Certain_Suggestion	Hydrology	-5.101807e-02	7.569164e-02	5.003072e-01	
492	Certain_Suggestion	Atomic_physics	3.176237e-03	1.074364e-01	9.764153e-01	
493	Certain_Suggestion	Development_economics	-1.103778e-01	1.222598e-01	3.666414e-01	
494	Certain_Suggestion	Optics	2.045380e-02	1.333828e-01	8.781273e-01	
495	Certain_Suggestion	Public_policy	4.569272e-01	8.206346e-02	2.628069e-08	***
496	Certain_Suggestion	Lung_cancer	5.162150e-02	1.948170e-02	8.065009e-03	**
497	Certain_Suggestion	Electronic_engineering	-3.335916e-03	2.241663e-01	9.881270e-01	
498	Certain_Suggestion	Artificial_intelligence	-3.902308e-02	1.133533e-01	7.306559e-01	
499	Certain_Suggestion	Machine_learning	-3.056129e-03	1.200756e-01	9.796951e-01	
500	Certain_Suggestion	Gender_studies	-4.195338e-02	7.219157e-02	5.611564e-01	
501	Certain_Suggestion	Chemical_engineering	-4.309337e-03	8.427394e-02	9.592188e-01	
502	Certain_Suggestion	Biophysics	-1.753191e-02	5.170432e-02	7.345548e-01	
503	Certain_Suggestion	Analytical_chemistry	-6.624190e-03	9.168481e-02	9.424044e-01	
504	Certain_Suggestion	Computer_science	5.580729e-02	6.038849e-02	3.554317e-01	
505	Certain_Suggestion	Radiology	-1.307528e-02	2.152083e-02	5.434873e-01	
506	Certain_Suggestion	Urology	-4.964304e-02	3.253778e-02	1.271077e-01	
507	Certain_Suggestion	Architecture	-4.133132e-02	7.387560e-02	5.758493e-01	
508	Certain_Suggestion	Quantum_mechanics	-6.877816e-03	2.926048e-01	9.812474e-01	
509	Certain_Suggestion	Particle_physics	2.657022e-02	2.532072e-01	9.164292e-01	
510	Certain_Suggestion	Materials_science	4.838278e-02	4.364263e-02	2.676177e-01	
511	Certain_Suggestion	Computational_biology	-2.876853e-02	1.074452e-01	7.888955e-01	
512	Certain_Suggestion	Agronomy	-1.159018e-01	5.752521e-02	4.394616e-02	*
513	Certain_Suggestion	Environmental_resource management	1.571620e-01	3.318242e-02	2.199425e-06	***
514	Certain_Suggestion	Molecular_biology	-7.512474e-03	2.149198e-02	7.266838e-01	
515	Certain_Suggestion	Dermatology	-5.013059e-02	2.927550e-02	8.685162e-02	
516	Certain_Suggestion	Engineering	1.462886e-02	7.794092e-02	8.511213e-01	
517	Certain_Suggestion	Surgery	-2.438935e-02	1.093010e-02	2.567205e-02	*
518	Certain_Suggestion	Public_health	4.845218e-02	1.489567e-02	1.145761e-03	**
519	Certain_Suggestion	Molecular_physics	-4.709223e-02	1.075258e-01	6.614211e-01	
520	Certain_Suggestion	Bioinformatics	-4.581454e-02	4.927141e-02	3.524709e-01	
521	Certain_Suggestion	Physics	2.471097e-02	5.595766e-02	6.587852e-01	
522	Certain_Suggestion	Cognitive_psychology	1.487764e-02	2.805705e-02	5.959379e-01	
523	Certain_Suggestion	Oncology	-2.155058e-02	1.930292e-02	2.642539e-01	
524	Certain_Suggestion	Pathology	6.062855e-02	2.002030e-02	2.463703e-03	**
525	Certain_Suggestion	Biochemistry	3.071896e-02	2.741661e-02	2.625424e-01	
526	Certain_Suggestion	Social_science	7.472158e-02	1.091262e-01	4.935288e-01	
527	Certain_Suggestion	Climatology	6.987124e-02	3.031218e-02	2.117911e-02	*
528	Certain_Suggestion	Pharmacology	4.527395e-02	4.375554e-02	3.008272e-01	
529	Certain_Suggestion	Agriculture	5.852581e-02	3.536376e-02	9.795546e-02	
530	Certain_Suggestion	Neuroscience	-1.857024e-03	2.352966e-02	9.370953e-01	
531	Certain_Suggestion	Fishery	-2.098984e-02	5.034584e-02	6.767488e-01	
532	Certain_Suggestion	Virology	4.465529e-04	2.270239e-02	9.843070e-01	
533	Certain_Suggestion	Microbiology	-8.746573e-03	3.376821e-02	7.956255e-01	
534	Certain_Suggestion	Communication	2.886112e-02	3.467507e-02	4.052375e-01	
535	Certain_Suggestion	Endocrinology	-1.474743e-02	1.118121e-02	1.872097e-01	
536	Certain_Suggestion	Epigenetics	-2.668680e-02	3.348890e-02	4.255323e-01	
537	Certain_Suggestion	Marketing	4.810229e-03	3.612627e-02	8.940764e-01	
538	Certain_Suggestion	Global_health	-6.887376e-02	5.306823e-02	1.943673e-01	
539	Certain_Suggestion	Agroforestry	1.534798e-01	4.636748e-02	9.352416e-04	***
540	Certain_Suggestion	Chemistry	9.707114e-02	3.873166e-02	1.221407e-02	*
541	Certain_Suggestion	Mathematics	9.135101e-03	1.128751e-01	9.354980e-01	
542	Certain_Suggestion	Gynecology	3.006455e-03	1.851788e-02	8.710295e-01	
543	Certain_Suggestion	Gerontology	-1.991193e-02	1.962518e-02	3.103100e-01	
544	Certain_Suggestion	Meteorology	-6.713493e-02	5.867443e-02	2.525642e-01	
545	Certain_Suggestion	Veterinary_medicine	2.969761e-01	1.339475e-01	2.663288e-02	*
546	Certain_Suggestion	Government	-4.999288e-02	3.939374e-02	2.044436e-01	
547	Certain_Suggestion	Dentistry	-3.338680e-02	7.262468e-02	6.457270e-01	
548	Certain_Suggestion	Microeconomics	2.971161e-01	6.172932e-02	1.501893e-06	***
549	Certain_Suggestion	Sociology	2.453899e-01	7.702808e-02	1.447343e-03	**
550	Certain_Suggestion	Emergency_medicine	-4.259541e-02	1.642317e-02	9.507835e-03	**
551	Certain_Suggestion	Pediatrics	4.789542e-03	1.319188e-02	7.165603e-01	

552	Certain_Suggestion	Advertising	-7.780238e-02	3.575017e-02	2.955223e-02	*
553	Certain_Suggestion	Oceanography	-4.733839e-02	5.448662e-02	3.849683e-01	
554	Certain_Suggestion	Developmental_psychology	8.300195e-03	1.969848e-02	6.734975e-01	
555	Certain_Suggestion	Internal_medicine	-2.176705e-02	1.077666e-02	4.342118e-02	*
556	Certain_Suggestion	Cardiology	-1.771320e-02	1.714817e-02	3.016464e-01	
557	Certain_Suggestion	Environmental_engineering	4.958653e-02	5.171035e-02	3.376124e-01	
558	Certain_Suggestion	General_surgery	4.301141e-03	1.999901e-02	8.297179e-01	
559	Certain_Suggestion	Environmental_science	1.049909e-01	4.073573e-02	9.966501e-03	**
560	Certain_Suggestion	Geophysics	-6.289009e-02	1.057589e-01	5.520843e-01	
561	Certain_Suggestion	Immunology	2.535643e-02	1.414131e-02	7.298393e-02	
562	Certain_Suggestion	Clinical_psychology	-9.793246e-04	2.041323e-02	9.617369e-01	
563	Certain_Suggestion	Toxicology	-5.211729e-02	6.589922e-02	4.290380e-01	
564	Certain_Suggestion	Ecology	2.409142e-02	1.572583e-02	1.255553e-01	
565	Certain_Suggestion	Biology	7.394016e-02	3.014833e-02	1.419792e-02	*
566	Certain_Suggestion	Epidemiology	-2.551913e-02	1.655415e-02	1.232061e-01	
567	Certain_Suggestion	Physical_therapy	4.943949e-03	1.076935e-02	6.461874e-01	
568	Certain_Suggestion	Physiology	-4.855773e-02	4.158061e-02	2.429098e-01	
569	Certain_Suggestion	Statistics	-1.388574e-02	1.330947e-01	9.169093e-01	
570	Certain_Suggestion	Psychopathology	-3.110469e-02	4.826467e-02	5.192879e-01	
571	Certain_Suggestion	Animal_science	-2.025005e-02	7.540111e-02	7.882692e-01	
572	Certain_Suggestion	Nursing	-2.629332e-02	1.955939e-02	1.788808e-01	
573	Certain_Suggestion	Seismology	-2.970905e-02	8.271116e-02	7.194586e-01	
574	Certain_Suggestion	History	2.448557e-02	2.314300e-01	9.157417e-01	
575	Certain_Suggestion	Psychiatry	-1.296226e-02	1.371141e-02	3.444911e-01	
576	Certain_Suggestion	Zoology	7.885082e-02	3.596112e-02	2.834885e-02	*
577	Certain_Suggestion	Psychology	5.634250e-02	2.991798e-02	5.969118e-02	
578	Certain_Suggestion	Etiology	4.706578e-02	3.835611e-02	2.198169e-01	
579	Certain_Suggestion	Geomorphology	8.693252e-02	4.511985e-02	5.403842e-02	
580	Certain_Suggestion	Atmospheric_sciences	2.657336e-03	4.841247e-02	9.562273e-01	
581	Certain_Suggestion	Geography	1.059079e-01	4.160984e-02	1.093101e-02	*
582	Certain_Suggestion	Demography	-1.544552e-02	1.264329e-02	2.218667e-01	
583	Certain_Suggestion	Geology	5.146969e-02	4.523614e-02	2.552248e-01	
584	Certain_Suggestion	Medicine	9.556823e-02	2.577938e-02	2.104653e-04	***
585	Certain_Suggestion	Family_medicine	2.090977e-02	1.288866e-02	1.047551e-01	
586	Certain_Suggestion	Evolutionary_biology	5.480893e-02	3.214673e-02	8.822551e-02	
587	Certain_Suggestion	Astrobiology	3.374449e-01	6.844668e-02	8.322298e-07	***
588	Certain_Suggestion	Astronomy	-1.343625e-02	5.135014e-02	7.935881e-01	
589	Certain_Suggestion	Astrophysics	3.376346e-02	7.921125e-02	6.699358e-01	
590	Certain_Suggestion	Geochemistry	-1.703213e-02	7.689221e-02	8.247015e-01	
591	Certain_Suggestion	Business	1.435940e-01	4.390673e-02	1.076615e-03	**
592	Certain_Suggestion	Finance	1.580820e-01	4.651225e-02	6.790521e-04	***
593	Certain_Suggestion	Management_science	-5.145384e-14	7.456614e-13	9.449873e-01	
594	Certain_Suggestion	Social_psychology	-2.570641e-03	1.505615e-02	8.644333e-01	
595	Certain_Suggestion	Political_science	4.885032e-02	6.994874e-02	4.849563e-01	
596	Certain_Suggestion	Archaeology	-5.425985e-02	6.802691e-02	4.251036e-01	
597	Certain_Suggestion	Economics	5.059419e-02	3.436197e-02	1.409399e-01	
598	Certain_Suggestion	Paleontology	-5.547359e-02	4.208885e-02	1.875230e-01	
599	Certain_Suggestion	Criminology	7.128781e-05	9.801659e-02	9.994197e-01	
600	Certain_Framing	Intercept	1.768614e-01	3.177267e-02	2.650916e-08	***
601	Certain_Framing	source[T.news]	-6.653818e-02	4.463989e-03	7.790593e-50	***
602	Certain_Framing	finding_len	1.798119e-03	2.519344e-04	1.002491e-12	***
603	Certain_Framing	flesch_reading_ease	-7.113732e-04	1.004877e-04	1.523952e-12	***
604	Certain_Framing	first_author_rank	-2.910100e-06	1.286748e-06	2.373891e-02	*
605	Certain_Framing	affi_rank	-3.550267e-07	1.283315e-06	7.820546e-01	
606	Certain_Framing	num_authors	-1.513935e-04	1.749598e-04	3.868876e-01	
607	Certain_Framing	journal_impact	9.591003e-05	1.803890e-04	5.949535e-01	
608	Certain_Framing	Law	-3.606114e-02	8.749540e-02	6.802370e-01	
609	Certain_Framing	Condensed_matter_physics	7.905256e-01	1.782646e-01	9.301317e-06	***
610	Certain_Framing	Biomedical_engineering	2.956243e-01	1.684174e-01	7.923011e-02	
611	Certain_Framing	Hydrology	6.364139e-01	1.477154e-01	1.656596e-05	***
612	Certain_Framing	Atomic_physics	6.246608e-01	2.096667e-01	2.894362e-03	**
613	Certain_Framing	Development_economics	-2.244286e-01	2.385952e-01	3.469145e-01	
614	Certain_Framing	Optics	-3.144005e-01	2.603022e-01	2.271350e-01	
615	Certain_Framing	Public_policy	3.549480e-03	1.601503e-01	9.823179e-01	
616	Certain_Framing	Lung_cancer	4.472236e-02	3.801937e-02	2.394947e-01	
617	Certain_Framing	Electronic_engineering	-3.641664e-01	4.374700e-01	4.051773e-01	
618	Certain_Framing	Artificial_intelligence	2.078497e-02	2.212138e-01	9.251434e-01	
619	Certain_Framing	Machine_learning	1.330748e-01	2.343326e-01	5.701205e-01	
620	Certain_Framing	Gender_studies	-2.281151e-01	1.408849e-01	1.054372e-01	
621	Certain_Framing	Chemical_engineering	-1.773623e-01	1.644642e-01	2.808640e-01	

622	Certain_Framing	Biophysics	-2.215126e-01	1.009032e-01	2.815969e-02	*
623	Certain_Framing	Analytical_chemistry	9.256706e-02	1.789268e-01	6.049234e-01	
624	Certain_Framing	Computer_science	8.466805e-02	1.178507e-01	4.725021e-01	
625	Certain_Framing	Radiology	1.817084e-02	4.199881e-02	6.652752e-01	
626	Certain_Framing	Urology	-1.685674e-02	6.349886e-02	7.906552e-01	
627	Certain_Framing	Architecture	5.472754e-01	1.441714e-01	1.477112e-04	***
628	Certain_Framing	Quantum_mechanics	6.205399e-01	5.710307e-01	2.771889e-01	
629	Certain_Framing	Particle_physics	-7.372746e-01	4.941445e-01	1.357175e-01	
630	Certain_Framing	Materials_science	1.228320e-01	8.517044e-02	1.492727e-01	
631	Certain_Framing	Computational_biology	-3.510084e-01	2.096840e-01	9.415697e-02	
632	Certain_Framing	Agronomy	-9.498953e-02	1.122629e-01	3.974932e-01	
633	Certain_Framing	Environmental_resource management	-6.612410e-02	6.475690e-02	3.072199e-01	
634	Certain_Framing	Molecular_biology	-1.270884e-02	4.194251e-02	7.618899e-01	
635	Certain_Framing	Dermatology	-1.101070e-01	5.713239e-02	5.397319e-02	
636	Certain_Framing	Engineering	4.388128e-01	1.521050e-01	3.921379e-03	**
637	Certain_Framing	Surgery	-5.267669e-02	2.133056e-02	1.354135e-02	*
638	Certain_Framing	Public_health	-3.536222e-02	2.906953e-02	2.238277e-01	
639	Certain_Framing	Molecular_physics	1.698111e-01	2.098412e-01	4.183940e-01	
640	Certain_Framing	Bioinformatics	-8.723332e-02	9.615524e-02	3.643107e-01	
641	Certain_Framing	Physics	-7.774521e-02	1.092037e-01	4.765221e-01	
642	Certain_Framing	Cognitive_psychology	1.454097e-01	5.475452e-02	7.924816e-03	**
643	Certain_Framing	Oncology	-1.477650e-02	3.767048e-02	6.948749e-01	
644	Certain_Framing	Pathology	-4.875385e-02	3.907047e-02	2.121106e-01	
645	Certain_Framing	Biochemistry	4.624853e-02	5.350468e-02	3.873935e-01	
646	Certain_Framing	Social_science	1.696629e-01	2.129644e-01	4.256557e-01	
647	Certain_Framing	Climatology	-1.510953e-01	5.915551e-02	1.065433e-02	*
648	Certain_Framing	Pharmacology	2.293167e-01	8.539080e-02	7.251369e-03	**
649	Certain_Framing	Agriculture	-1.062199e-03	6.901388e-02	9.877204e-01	
650	Certain_Framing	Neuroscience	-1.753978e-01	4.591912e-02	1.342267e-04	***
651	Certain_Framing	Fishery	9.172765e-02	9.825206e-02	3.505300e-01	
652	Certain_Framing	Virology	-6.151043e-02	4.430467e-02	1.650539e-01	
653	Certain_Framing	Microbiology	-7.257720e-02	6.590010e-02	2.707770e-01	
654	Certain_Framing	Communication	-1.395912e-01	6.766987e-02	3.914888e-02	*
655	Certain_Framing	Endocrinology	-1.211106e-02	2.182061e-02	5.788846e-01	
656	Certain_Framing	Epigenetics	-1.002413e-01	6.535501e-02	1.251038e-01	
657	Certain_Framing	Marketing	2.184494e-04	7.050194e-02	9.975278e-01	
658	Certain_Framing	Global_health	-3.915400e-02	1.035649e-01	7.053903e-01	
659	Certain_Framing	Agroforestry	8.850096e-02	9.048811e-02	3.280728e-01	
660	Certain_Framing	Chemistry	-3.275068e-02	7.558648e-02	6.648131e-01	
661	Certain_Framing	Mathematics	-3.968767e-01	2.202806e-01	7.161766e-02	
662	Certain_Framing	Gynecology	1.609573e-02	3.613843e-02	6.560445e-01	
663	Certain_Framing	Gerontology	-4.474339e-02	3.829938e-02	2.427258e-01	
664	Certain_Framing	Meteorology	1.489492e-01	1.145056e-01	1.933490e-01	
665	Certain_Framing	Veterinary_medicine	-3.616296e-01	2.614042e-01	1.665624e-01	
666	Certain_Framing	Government	-1.025851e-01	7.687855e-02	1.821031e-01	
667	Certain_Framing	Dentistry	-1.646786e-01	1.417301e-01	2.452907e-01	
668	Certain_Framing	Microeconomics	1.268712e-01	1.204674e-01	2.922879e-01	
669	Certain_Framing	Sociology	-1.769746e-01	1.503236e-01	2.391007e-01	
670	Certain_Framing	Emergency_medicine	-7.270091e-02	3.205052e-02	2.332582e-02	*
671	Certain_Framing	Pediatrics	-4.859457e-02	2.574450e-02	5.910578e-02	
672	Certain_Framing	Advertising	1.864501e-02	6.976798e-02	7.892863e-01	
673	Certain_Framing	Oceanography	1.285919e-01	1.063329e-01	2.265569e-01	
674	Certain_Framing	Developmental_psychology	-4.514817e-02	3.844242e-02	2.402418e-01	
675	Certain_Framing	Internal_medicine	-5.697354e-02	2.103111e-02	6.757181e-03	**
676	Certain_Framing	Cardiology	-8.515402e-02	3.346537e-02	1.095356e-02	*
677	Certain_Framing	Environmental_engineering	4.198091e-02	1.009149e-01	6.774147e-01	
678	Certain_Framing	General_surgery	5.296179e-02	3.902893e-02	1.748085e-01	
679	Certain_Framing	Environmental_science	-9.601846e-02	7.949750e-02	2.271394e-01	
680	Certain_Framing	Geophysics	2.878822e-01	2.063930e-01	1.630923e-01	
681	Certain_Framing	Immunology	-2.213069e-02	2.759736e-02	4.226176e-01	
682	Certain_Framing	Clinical_psychology	5.989462e-02	3.983728e-02	1.327391e-01	
683	Certain_Framing	Toxicology	-1.701951e-01	1.286051e-01	1.857280e-01	
684	Certain_Framing	Ecology	-8.975301e-02	3.068963e-02	3.455605e-03	**
685	Certain_Framing	Biology	9.653216e-02	5.883574e-02	1.008826e-01	
686	Certain_Framing	Epidemiology	2.623765e-04	3.230613e-02	9.935201e-01	
687	Certain_Framing	Physical_therapy	-1.041203e-02	2.101685e-02	6.203165e-01	
688	Certain_Framing	Physiology	2.457842e-01	8.114633e-02	2.459249e-03	**
689	Certain_Framing	Statistics	1.104481e-01	2.597399e-01	6.706793e-01	
690	Certain_Framing	Psychopathology	-8.899041e-02	9.419055e-02	3.447829e-01	

691	Certain_Framing	Animal_science	-5.872492e-03	1.471485e-01	9.681666e-01	
692	Certain_Framing	Nursing	8.471809e-02	3.817098e-02	2.647414e-02	*
693	Certain_Framing	Seismology	-7.971247e-02	1.614144e-01	6.214292e-01	
694	Certain_Framing	History	-3.112217e-01	4.516456e-01	4.907827e-01	
695	Certain_Framing	Psychiatry	-5.876560e-02	2.675840e-02	2.809837e-02	*
696	Certain_Framing	Zoology	1.314946e-01	7.017966e-02	6.099606e-02	
697	Certain_Framing	Psychology	-1.012912e-01	5.838622e-02	8.279123e-02	
698	Certain_Framing	Etiology	3.149850e-01	7.485358e-02	2.593465e-05	***
699	Certain_Framing	Geomorphology	-3.309416e-01	8.805330e-02	1.717327e-04	***
700	Certain_Framing	Atmospheric_sciences	3.980629e-01	9.447900e-02	2.534220e-05	***
701	Certain_Framing	Geography	8.155008e-03	8.120337e-02	9.200069e-01	
702	Certain_Framing	Demography	-5.086070e-02	2.467391e-02	3.929275e-02	*
703	Certain_Framing	Geology	1.404526e-01	8.828025e-02	1.116370e-01	
704	Certain_Framing	Medicine	-1.125198e-01	5.030955e-02	2.533260e-02	*
705	Certain_Framing	Family_medicine	4.556540e-02	2.515277e-02	7.007938e-02	
706	Certain_Framing	Evolutionary_biology	2.341686e-01	6.273572e-02	1.903030e-04	***
707	Certain_Framing	Astrobiology	-2.823186e-01	1.335766e-01	3.457410e-02	*
708	Certain_Framing	Astronomy	1.473447e-01	1.002120e-01	1.414965e-01	
709	Certain_Framing	Astrophysics	3.608433e-01	1.545841e-01	1.959593e-02	*
710	Certain_Framing	Geochemistry	-2.768964e-03	1.500584e-01	9.852781e-01	
711	Certain_Framing	Business	-9.469593e-02	8.568585e-02	2.691139e-01	
712	Certain_Framing	Finance	1.294520e-01	9.077063e-02	1.538507e-01	
713	Certain_Framing	Management_science	-4.501820e-12	1.455190e-12	1.981411e-03	**
714	Certain_Framing	Social_psychology	9.043926e-02	2.938271e-02	2.088442e-03	**
715	Certain_Framing	Political_science	-2.341919e-01	1.365079e-01	8.626046e-02	
716	Certain_Framing	Archaeology	3.077281e-01	1.327574e-01	2.046617e-02	*
717	Certain_Framing	Economics	-3.336342e-02	6.705884e-02	6.188275e-01	
718	Certain_Framing	Paleontology	-1.203383e-01	8.213819e-02	1.429256e-01	
719	Certain_Framing	Criminology	-2.083024e-01	1.912835e-01	2.761865e-01	
720	Uncertain_Number	Intercept	8.036772e-02	2.829587e-02	4.514603e-03	**
721	Uncertain_Number	source[T.news]	9.854131e-03	3.975506e-03	1.319834e-02	*
722	Uncertain_Number	finding_len	2.530194e-03	2.243658e-04	2.327746e-29	***
723	Uncertain_Number	flesch_reading_ease	9.689563e-04	8.949156e-05	3.333206e-27	***
724	Uncertain_Number	first_author_rank	-4.109076e-06	1.145942e-06	3.373219e-04	***
725	Uncertain_Number	affi_rank	-4.135660e-06	1.142885e-06	2.973018e-04	***
726	Uncertain_Number	num_authors	1.594579e-04	1.558144e-04	3.061454e-01	
727	Uncertain_Number	journal_impact	4.312048e-05	1.606494e-04	7.883853e-01	
728	Uncertain_Number	Law	1.876525e-01	7.792099e-02	1.604339e-02	*
729	Uncertain_Number	Condensed_matter_physics	3.462799e-01	1.587575e-01	2.918736e-02	*
730	Uncertain_Number	Biomedical_engineering	-3.719016e-01	1.499879e-01	1.316755e-02	*
731	Uncertain_Number	Hydrology	1.926085e-01	1.315513e-01	1.431819e-01	
732	Uncertain_Number	Atomic_physics	-1.662291e-01	1.867234e-01	3.733522e-01	
733	Uncertain_Number	Development_economics	2.104808e-01	2.124863e-01	3.219179e-01	
734	Uncertain_Number	Optics	-7.513547e-01	2.318179e-01	1.193506e-03	**
735	Uncertain_Number	Public_policy	-1.975167e-01	1.426255e-01	1.661180e-01	
736	Uncertain_Number	Lung_cancer	8.149596e-02	3.385900e-02	1.610142e-02	*
737	Uncertain_Number	Electronic_engineering	5.978822e-01	3.895987e-01	1.249038e-01	
738	Uncertain_Number	Artificial_intelligence	-2.143497e-01	1.970069e-01	2.766013e-01	
739	Uncertain_Number	Machine_learning	-9.886740e-02	2.086902e-01	6.356846e-01	
740	Uncertain_Number	Gender_studies	8.717666e-02	1.254682e-01	4.871863e-01	
741	Uncertain_Number	Chemical_engineering	-5.415848e-01	1.464673e-01	2.184954e-04	***
742	Uncertain_Number	Biophysics	3.179963e-01	8.986158e-02	4.034473e-04	***
743	Uncertain_Number	Analytical_chemistry	2.313544e-01	1.593473e-01	1.465567e-01	
744	Uncertain_Number	Computer_science	3.218781e-01	1.049546e-01	2.167830e-03	**
745	Uncertain_Number	Radiology	-5.179288e-02	3.740298e-02	1.661599e-01	
746	Uncertain_Number	Urology	-9.312205e-02	5.655033e-02	9.964155e-02	
747	Uncertain_Number	Architecture	-7.487101e-02	1.283950e-01	5.598158e-01	
748	Uncertain_Number	Quantum_mechanics	-2.311866e-01	5.085442e-01	6.494011e-01	
749	Uncertain_Number	Particle_physics	-4.852988e-01	4.400715e-01	2.701463e-01	
750	Uncertain_Number	Materials_science	5.384376e-01	7.585045e-02	1.324733e-12	***
751	Uncertain_Number	Computational_biology	-2.063257e-01	1.867387e-01	2.692278e-01	
752	Uncertain_Number	Agronomy	2.292139e-02	9.997824e-02	8.186675e-01	
753	Uncertain_Number	Environmental_resource man-agement	1.271473e-01	5.767070e-02	2.749167e-02	*
754	Uncertain_Number	Molecular_biology	-4.115803e-02	3.735284e-02	2.705379e-01	
755	Uncertain_Number	Dermatology	-2.519845e-02	5.088053e-02	6.204339e-01	
756	Uncertain_Number	Engineering	-1.548033e-01	1.354605e-01	2.531457e-01	
757	Uncertain_Number	Surgery	-2.560537e-02	1.899641e-02	1.777120e-01	
758	Uncertain_Number	Public_health	1.709295e-01	2.588852e-02	4.198612e-11	***
759	Uncertain_Number	Molecular_physics	-2.711366e-01	1.868788e-01	1.468405e-01	

760	Uncertain_Number	Bioinformatics	2.669767e-02	8.563320e-02	7.552220e-01	
761	Uncertain_Number	Physics	5.213570e-01	9.725384e-02	8.427141e-08	***
762	Uncertain_Number	Cognitive_psychology	-2.394485e-02	4.876286e-02	6.234015e-01	
763	Uncertain_Number	Oncology	-6.487146e-02	3.354829e-02	5.317477e-02	
764	Uncertain_Number	Pathology	-1.926027e-02	3.479508e-02	5.799071e-01	
765	Uncertain_Number	Biochemistry	4.004910e-02	4.764979e-02	4.006500e-01	
766	Uncertain_Number	Social_science	8.343142e-02	1.896602e-01	6.600173e-01	
767	Uncertain_Number	Climatology	-9.674010e-02	5.268226e-02	6.633698e-02	
768	Uncertain_Number	Pharmacology	-1.025468e-01	7.604669e-02	1.775302e-01	
769	Uncertain_Number	Agriculture	1.764185e-01	6.146185e-02	4.106454e-03	**
770	Uncertain_Number	Neuroscience	-8.918402e-02	4.089430e-02	2.921288e-02	*
771	Uncertain_Number	Fishery	-2.097097e-01	8.750057e-02	1.655895e-02	*
772	Uncertain_Number	Virology	1.018581e-01	3.945652e-02	9.847172e-03	**
773	Uncertain_Number	Microbiology	-1.283548e-01	5.868881e-02	2.875720e-02	*
774	Uncertain_Number	Communication	-1.183637e-01	6.026491e-02	4.954477e-02	*
775	Uncertain_Number	Endocrinology	-2.252941e-02	1.943283e-02	2.463357e-01	
776	Uncertain_Number	Epigenetics	-8.449373e-02	5.820337e-02	1.466095e-01	
777	Uncertain_Number	Marketing	-6.220513e-03	6.278709e-02	9.210817e-01	
778	Uncertain_Number	Global_health	-7.477826e-02	9.223205e-02	4.175170e-01	
779	Uncertain_Number	Agroforestry	5.294632e-02	8.058621e-02	5.111831e-01	
780	Uncertain_Number	Chemistry	-1.773415e-02	6.731524e-02	7.922084e-01	
781	Uncertain_Number	Mathematics	-1.391172e-01	1.961758e-01	4.782467e-01	
782	Uncertain_Number	Gynecology	9.496896e-02	3.218388e-02	3.174912e-03	**
783	Uncertain_Number	Gerontology	-1.420052e-02	3.410837e-02	6.771714e-01	
784	Uncertain_Number	Meteorology	-2.228219e-02	1.019756e-01	8.270389e-01	
785	Uncertain_Number	Veterinary_medicine	5.301580e-01	2.327994e-01	2.278341e-02	*
786	Uncertain_Number	Government	-6.932230e-02	6.846592e-02	3.113139e-01	
787	Uncertain_Number	Dentistry	-1.779317e-01	1.262210e-01	1.586567e-01	
788	Uncertain_Number	Microeconomics	1.177684e-01	1.072849e-01	2.723487e-01	
789	Uncertain_Number	Sociology	-1.393366e-01	1.338740e-01	2.979858e-01	
790	Uncertain_Number	Emergency_medicine	4.088170e-02	2.854331e-02	1.520908e-01	
791	Uncertain_Number	Pediatrics	-3.070933e-02	2.292735e-02	1.804576e-01	
792	Uncertain_Number	Advertising	-2.440927e-02	6.213344e-02	6.944349e-01	
793	Uncertain_Number	Oceanography	-1.913469e-01	9.469719e-02	4.333959e-02	*
794	Uncertain_Number	Developmental_psychology	-3.678099e-02	3.423576e-02	2.826882e-01	
795	Uncertain_Number	Internal_medicine	-6.386282e-02	1.872973e-02	6.523026e-04	***
796	Uncertain_Number	Cardiology	-5.415164e-02	2.980334e-02	6.924529e-02	
797	Uncertain_Number	Environmental_engineering	-1.898473e-01	8.987206e-02	3.466959e-02	*
798	Uncertain_Number	General_surgery	-1.767917e-02	3.475808e-02	6.110168e-01	
799	Uncertain_Number	Environmental_science	3.948327e-02	7.079828e-02	5.770678e-01	
800	Uncertain_Number	Geophysics	-2.312014e-01	1.838079e-01	2.084713e-01	
801	Uncertain_Number	Immunology	-5.781182e-02	2.457745e-02	1.867597e-02	*
802	Uncertain_Number	Clinical_psychology	-6.816074e-02	3.547798e-02	5.472669e-02	
803	Uncertain_Number	Toxicology	2.076576e-01	1.145322e-01	6.984032e-02	
804	Uncertain_Number	Ecology	2.738174e-02	2.733134e-02	3.164374e-01	
805	Uncertain_Number	Biology	-4.102415e-02	5.239749e-02	4.336758e-01	
806	Uncertain_Number	Epidemiology	1.176510e-01	2.877094e-02	4.354050e-05	***
807	Uncertain_Number	Physical_therapy	-2.958667e-02	1.871703e-02	1.139627e-01	
808	Uncertain_Number	Physiology	-7.205563e-02	7.226668e-02	3.187444e-01	
809	Uncertain_Number	Statistics	9.034200e-02	2.313172e-01	6.961329e-01	
810	Uncertain_Number	Psychopathology	-1.024174e-02	8.388350e-02	9.028258e-01	
811	Uncertain_Number	Animal_science	-8.864893e-02	1.310464e-01	4.987543e-01	
812	Uncertain_Number	Nursing	-3.223246e-02	3.399403e-02	3.430553e-01	
813	Uncertain_Number	Seismology	-3.794824e-01	1.437512e-01	8.303977e-03	**
814	Uncertain_Number	History	-6.974666e-02	4.022231e-01	8.623374e-01	
815	Uncertain_Number	Psychiatry	3.308198e-02	2.383029e-02	1.650900e-01	
816	Uncertain_Number	Zoology	-9.734051e-02	6.250006e-02	1.193887e-01	
817	Uncertain_Number	Psychology	-5.354672e-02	5.199715e-02	3.031225e-01	
818	Uncertain_Number	Etiology	-1.112802e-01	6.666253e-02	9.508074e-02	
819	Uncertain_Number	Geomorphology	-5.311842e-02	7.841784e-02	4.981790e-01	
820	Uncertain_Number	Atmospheric_sciences	-8.300485e-02	8.414039e-02	3.239040e-01	
821	Uncertain_Number	Geography	5.294004e-02	7.231748e-02	4.641510e-01	
822	Uncertain_Number	Demography	3.760599e-03	2.197390e-02	8.641169e-01	
823	Uncertain_Number	Geology	3.327749e-01	7.861996e-02	2.324780e-05	***
824	Uncertain_Number	Medicine	-8.343590e-02	4.480430e-02	6.259316e-02	
825	Uncertain_Number	Family_medicine	6.064260e-02	2.240036e-02	6.793866e-03	**
826	Uncertain_Number	Evolutionary_biology	2.494916e-01	5.587070e-02	8.054599e-06	***
827	Uncertain_Number	Astrobiology	-8.505536e-02	1.189596e-01	4.746259e-01	
828	Uncertain_Number	Astronomy	1.408712e-01	8.924603e-02	1.144844e-01	
829	Uncertain_Number	Astrophysics	-3.037560e-02	1.376684e-01	8.253737e-01	

830	Uncertain_Number	Geochemistry	8.971024e-02	1.336379e-01	5.020455e-01	
831	Uncertain_Number	Business	-5.698424e-02	7.630945e-02	4.552267e-01	
832	Uncertain_Number	Finance	-3.738821e-02	8.083782e-02	6.437241e-01	
833	Uncertain_Number	Management_science	-2.165602e-12	1.295952e-12	9.473557e-02	
834	Uncertain_Number	Social_psychology	-6.725829e-02	2.616743e-02	1.017188e-02	*
835	Uncertain_Number	Political_science	3.469279e-01	1.215702e-01	4.327793e-03	**
836	Uncertain_Number	Archaeology	1.174663e-01	1.182301e-01	3.204654e-01	
837	Uncertain_Number	Economics	1.005533e-01	5.972075e-02	9.225877e-02	
838	Uncertain_Number	Paleontology	1.346898e-01	7.315000e-02	6.560295e-02	
839	Uncertain_Number	Criminology	-1.528824e-01	1.703518e-01	3.694950e-01	
840	Uncertain_Extent	Intercept	1.384817e-01	3.966968e-02	4.830408e-04	***
841	Uncertain_Extent	source[T.news]	1.141141e-02	5.573500e-03	4.063482e-02	*
842	Uncertain_Extent	finding_len	1.697607e-03	3.145519e-04	6.898547e-08	***
843	Uncertain_Extent	flesch_reading_ease	5.019145e-04	1.254636e-04	6.356305e-05	***
844	Uncertain_Extent	first_author_rank	-2.633616e-06	1.606565e-06	1.011782e-01	
845	Uncertain_Extent	affi_rank	-3.149592e-06	1.602279e-06	4.935493e-02	*
846	Uncertain_Extent	num_authors	-6.797947e-04	2.184455e-04	1.862479e-03	**
847	Uncertain_Extent	journal_impact	4.552613e-04	2.252241e-04	4.326181e-02	*
848	Uncertain_Extent	Law	3.601845e-02	1.092421e-01	7.416228e-01	
849	Uncertain_Extent	Condensed_matter_physics	2.039316e-01	2.225717e-01	3.595522e-01	
850	Uncertain_Extent	Biomedical_engineering	-1.945339e-01	2.102770e-01	3.549145e-01	
851	Uncertain_Extent	Hydrology	-1.382001e-01	1.844297e-01	4.536673e-01	
852	Uncertain_Extent	Atomic_physics	-2.374851e-01	2.617788e-01	3.643189e-01	
853	Uncertain_Extent	Development_economics	1.204365e+00	2.978973e-01	5.310006e-05	***
854	Uncertain_Extent	Optics	-6.632538e-03	3.249995e-01	9.837183e-01	
855	Uncertain_Extent	Public_policy	-2.716704e-01	1.999552e-01	1.742790e-01	
856	Uncertain_Extent	Lung_cancer	-9.329557e-03	4.746897e-02	8.441905e-01	
857	Uncertain_Extent	Electronic_engineering	-6.732345e-01	5.462019e-01	2.177567e-01	
858	Uncertain_Extent	Artificial_intelligence	-4.193149e-01	2.761958e-01	1.289933e-01	
859	Uncertain_Extent	Machine_learning	7.885666e-02	2.925753e-01	7.875292e-01	
860	Uncertain_Extent	Gender_studies	3.296619e-01	1.759014e-01	6.093503e-02	
861	Uncertain_Extent	Chemical_engineering	-5.681293e-01	2.053412e-01	5.669666e-03	**
862	Uncertain_Extent	Biophysics	1.544716e-01	1.259823e-01	2.201694e-01	
863	Uncertain_Extent	Analytical_chemistry	-6.773311e-02	2.233985e-01	7.617468e-01	
864	Uncertain_Extent	Computer_science	3.239349e-01	1.471421e-01	2.771736e-02	*
865	Uncertain_Extent	Radiology	3.714296e-02	5.243748e-02	4.787540e-01	
866	Uncertain_Extent	Urology	-1.040627e-01	7.928131e-02	1.893492e-01	
867	Uncertain_Extent	Architecture	-2.395985e-01	1.800047e-01	1.831899e-01	
868	Uncertain_Extent	Quantum_mechanics	-3.159762e-01	7.129587e-01	6.576356e-01	
869	Uncertain_Extent	Particle_physics	-2.317123e-01	6.169627e-01	7.072432e-01	
870	Uncertain_Extent	Materials_science	4.261880e-01	1.063393e-01	6.162420e-05	***
871	Uncertain_Extent	Computational_biology	-3.219202e-01	2.618003e-01	2.188539e-01	
872	Uncertain_Extent	Agronomy	2.218747e-01	1.401655e-01	1.134575e-01	
873	Uncertain_Extent	Environmental_resource management	1.267310e-01	8.085203e-02	1.170354e-01	
874	Uncertain_Extent	Molecular_biology	-3.655988e-02	5.236720e-02	4.850991e-01	
875	Uncertain_Extent	Dermatology	-6.431341e-02	7.133247e-02	3.672856e-01	
876	Uncertain_Extent	Engineering	-1.518751e-01	1.899103e-01	4.238874e-01	
877	Uncertain_Extent	Surgery	-7.811676e-02	2.663220e-02	3.361040e-03	**
878	Uncertain_Extent	Public_health	6.465609e-02	3.629467e-02	7.486691e-02	
879	Uncertain_Extent	Molecular_physics	-2.779015e-01	2.619966e-01	2.888430e-01	
880	Uncertain_Extent	Bioinformatics	4.519419e-02	1.200543e-01	7.065901e-01	
881	Uncertain_Extent	Physics	2.684745e-01	1.363460e-01	4.896642e-02	*
882	Uncertain_Extent	Cognitive_psychology	3.173258e-02	6.836359e-02	6.425311e-01	
883	Uncertain_Extent	Oncology	-7.714572e-02	4.703336e-02	1.009806e-01	
884	Uncertain_Extent	Pathology	1.118740e-01	4.878131e-02	2.184208e-02	*
885	Uncertain_Extent	Biochemistry	-3.557743e-02	6.680311e-02	5.943393e-01	
886	Uncertain_Extent	Social_science	1.477850e-01	2.658961e-01	5.783572e-01	
887	Uncertain_Extent	Climatology	-6.463593e-02	7.385843e-02	3.815178e-01	
888	Uncertain_Extent	Pharmacology	-1.156023e-01	1.066144e-01	2.782506e-01	
889	Uncertain_Extent	Agriculture	2.811641e-01	8.616707e-02	1.105186e-03	**
890	Uncertain_Extent	Neuroscience	-4.877828e-02	5.733218e-02	3.948955e-01	
891	Uncertain_Extent	Fishery	3.749330e-01	1.226723e-01	2.244810e-03	**
892	Uncertain_Extent	Virology	-1.370250e-01	5.531646e-02	1.325766e-02	*
893	Uncertain_Extent	Microbiology	-5.990317e-02	8.227937e-02	4.665984e-01	
894	Uncertain_Extent	Communication	-1.855242e-01	8.448901e-02	2.812101e-02	*
895	Uncertain_Extent	Endocrinology	-2.151911e-02	2.724406e-02	4.296213e-01	
896	Uncertain_Extent	Epigenetics	-7.483090e-02	8.159880e-02	3.591288e-01	
897	Uncertain_Extent	Marketing	-8.654938e-02	8.802499e-02	3.255093e-01	
898	Uncertain_Extent	Global_health	4.105602e-01	1.293056e-01	1.501257e-03	**

899	Uncertain_Extent	Agroforestry	-3.682025e-01	1.129786e-01	1.120740e-03	**
900	Uncertain_Extent	Chemistry	6.746584e-02	9.437328e-02	4.746942e-01	
901	Uncertain_Extent	Mathematics	-1.432857e-01	2.750306e-01	6.023889e-01	
902	Uncertain_Extent	Gynecology	5.034229e-02	4.512052e-02	2.645585e-01	
903	Uncertain_Extent	Gerontology	1.499427e-01	4.781858e-02	1.718494e-03	**
904	Uncertain_Extent	Meteorology	1.204120e-01	1.429657e-01	3.996665e-01	
905	Uncertain_Extent	Veterinary_medicine	1.224024e+00	3.263755e-01	1.773469e-04	***
906	Uncertain_Extent	Government	2.624025e-02	9.598649e-02	7.845697e-01	
907	Uncertain_Extent	Dentistry	7.666300e-02	1.769567e-01	6.648547e-01	
908	Uncertain_Extent	Microeconomics	8.897237e-02	1.504092e-01	5.541719e-01	
909	Uncertain_Extent	Sociology	-2.394590e-01	1.876860e-01	2.020316e-01	
910	Uncertain_Extent	Emergency_medicine	6.182389e-02	4.001658e-02	1.223809e-01	
911	Uncertain_Extent	Pediatrics	1.178138e-02	3.214322e-02	7.139773e-01	
912	Uncertain_Extent	Advertising	1.087239e-01	8.710860e-02	2.120017e-01	
913	Uncertain_Extent	Oceanography	1.542290e-01	1.327617e-01	2.453794e-01	
914	Uncertain_Extent	Developmental_psychology	6.605211e-02	4.799717e-02	1.687936e-01	
915	Uncertain_Extent	Internal_medicine	-1.579629e-02	2.625833e-02	5.474691e-01	
916	Uncertain_Extent	Cardiology	-8.207534e-02	4.178309e-02	4.951425e-02	*
917	Uncertain_Extent	Environmental_engineering	4.434649e-01	1.259970e-01	4.335959e-04	***
918	Uncertain_Extent	General_surgery	6.676467e-02	4.872945e-02	1.706763e-01	
919	Uncertain_Extent	Environmental_science	3.124797e-01	9.925636e-02	1.646449e-03	**
920	Uncertain_Extent	Geophysics	4.970344e-01	2.576914e-01	5.377771e-02	
921	Uncertain_Extent	Immunology	1.565549e-02	3.445660e-02	6.495817e-01	
922	Uncertain_Extent	Clinical_psychology	-3.296156e-03	4.973872e-02	9.471643e-01	
923	Uncertain_Extent	Toxicology	4.966148e-02	1.605695e-01	7.571110e-01	
924	Uncertain_Extent	Ecology	8.008658e-02	3.831745e-02	3.662980e-02	*
925	Uncertain_Extent	Biology	-3.127617e-02	7.345919e-02	6.702879e-01	
926	Uncertain_Extent	Epidemiology	5.069813e-02	4.033572e-02	2.088108e-01	
927	Uncertain_Extent	Physical_therapy	-2.668499e-03	2.624053e-02	9.190013e-01	
928	Uncertain_Extent	Physiology	-1.775297e-01	1.013150e-01	7.975343e-02	
929	Uncertain_Extent	Statistics	3.702986e-01	3.242975e-01	2.535380e-01	
930	Uncertain_Extent	Psychopathology	1.490344e-01	1.176013e-01	2.050760e-01	
931	Uncertain_Extent	Animal_science	-8.820164e-02	1.837218e-01	6.311767e-01	
932	Uncertain_Extent	Nursing	-3.328058e-02	4.765827e-02	4.849914e-01	
933	Uncertain_Extent	Seismology	-3.179278e-01	2.015334e-01	1.146947e-01	
934	Uncertain_Extent	History	-2.972329e-01	5.639007e-01	5.981321e-01	
935	Uncertain_Extent	Psychiatry	8.243814e-02	3.340912e-02	1.361746e-02	*
936	Uncertain_Extent	Zoology	1.206202e-02	8.762260e-02	8.905122e-01	
937	Uncertain_Extent	Psychology	-1.525205e-01	7.289794e-02	3.643571e-02	*
938	Uncertain_Extent	Etiology	-4.481506e-02	9.345821e-02	6.315770e-01	
939	Uncertain_Extent	Geomorphology	1.024977e-01	1.099387e-01	3.511898e-01	
940	Uncertain_Extent	Atmospheric_sciences	4.177647e-01	1.179615e-01	3.991927e-04	***
941	Uncertain_Extent	Geography	4.139853e-01	1.013862e-01	4.467505e-05	***
942	Uncertain_Extent	Demography	-2.176771e-02	3.080654e-02	4.798314e-01	
943	Uncertain_Extent	Geology	3.065456e-02	1.102220e-01	5.424200e-03	**
944	Uncertain_Extent	Medicine	-9.027842e-02	6.281384e-02	1.506744e-01	
945	Uncertain_Extent	Family_medicine	1.576642e-01	3.140442e-02	5.223145e-07	***
946	Uncertain_Extent	Evolutionary_biology	-3.592217e-02	7.832849e-02	6.465224e-01	
947	Uncertain_Extent	Astrobiology	-5.446410e-01	1.667767e-01	1.094790e-03	**
948	Uncertain_Extent	Astronomy	-2.564328e-01	1.251194e-01	4.043268e-02	*
949	Uncertain_Extent	Astrophysics	-7.217501e-03	1.930055e-01	9.701704e-01	
950	Uncertain_Extent	Geochemistry	2.512905e-01	1.873550e-01	1.798616e-01	
951	Uncertain_Extent	Business	1.052992e-01	1.069828e-01	3.250046e-01	
952	Uncertain_Extent	Finance	2.695091e-02	1.133314e-01	8.120352e-01	
953	Uncertain_Extent	Management_science	-3.202171e-12	1.816873e-12	7.801452e-02	
954	Uncertain_Extent	Social_psychology	7.715509e-03	3.668570e-02	8.334260e-01	
955	Uncertain_Extent	Political_science	1.902772e-01	1.704366e-01	2.642669e-01	
956	Uncertain_Extent	Archaeology	1.194541e-01	1.657539e-01	4.711246e-01	
957	Uncertain_Extent	Economics	6.928585e-02	8.372611e-02	4.079520e-01	
958	Uncertain_Extent	Paleontology	-1.833181e-02	1.025534e-01	8.581338e-01	
959	Uncertain_Extent	Criminology	4.582493e-01	2.388265e-01	5.503726e-02	
960	Uncertain_Probability	Intercept	1.859137e-01	3.731614e-02	6.369445e-07	***
961	Uncertain_Probability	source[T.news]	1.495880e-02	5.242834e-03	4.335089e-03	**
962	Uncertain_Probability	finding_len	4.568004e-04	2.958901e-04	1.226567e-01	
963	Uncertain_Probability	flesch_reading_ease	-3.695115e-04	1.180200e-04	1.746434e-03	**
964	Uncertain_Probability	first_author_rank	-3.524256e-06	1.511250e-06	1.971511e-02	*
965	Uncertain_Probability	affi_rank	2.824612e-06	1.507218e-06	6.094490e-02	
966	Uncertain_Probability	num_authors	-1.770833e-04	2.054855e-04	3.888245e-01	
967	Uncertain_Probability	journal_impact	-1.030409e-03	2.118619e-04	1.166201e-06	***
968	Uncertain_Probability	Law	2.175750e-01	1.027610e-01	3.425393e-02	*

969	Uncertain_Probability	Condensed_matter_physics	-2.198914e-01	2.093669e-01	2.936143e-01	
970	Uncertain_Probability	Biomedical_engineering	-1.356467e-01	1.978016e-01	4.928694e-01	
971	Uncertain_Probability	Hydrology	-1.574607e-01	1.734878e-01	3.640967e-01	
972	Uncertain_Probability	Atomic_physics	-2.279647e-01	2.462479e-01	3.545915e-01	
973	Uncertain_Probability	Development_economics	-2.707660e-01	2.802235e-01	3.339370e-01	
974	Uncertain_Probability	Optics	4.712471e-01	3.057178e-01	1.232329e-01	
975	Uncertain_Probability	Public_policy	-2.746660e-01	1.880922e-01	1.442390e-01	
976	Uncertain_Probability	Lung_cancer	8.628951e-02	4.465271e-02	5.332455e-02	
977	Uncertain_Probability	Electronic_engineering	-2.269317e-01	5.137966e-01	6.587309e-01	
978	Uncertain_Probability	Artificial_intelligence	-8.404610e-02	2.598096e-01	7.463285e-01	
979	Uncertain_Probability	Machine_learning	1.421098e+00	2.752173e-01	2.458761e-07	***
980	Uncertain_Probability	Gender_studies	-2.983400e-01	1.654655e-01	7.140586e-02	
981	Uncertain_Probability	Chemical_engineering	-2.293171e-01	1.931587e-01	2.351723e-01	
982	Uncertain_Probability	Biophysics	1.753442e-02	1.185080e-01	8.823768e-01	
983	Uncertain_Probability	Analytical_chemistry	1.084363e-01	2.101446e-01	6.058578e-01	
984	Uncertain_Probability	Computer_science	-1.022481e-01	1.384125e-01	4.600900e-01	
985	Uncertain_Probability	Radiology	5.072120e-02	4.932645e-02	3.038392e-01	
986	Uncertain_Probability	Urology	-1.738161e-01	7.457768e-02	1.978584e-02	*
987	Uncertain_Probability	Architecture	-3.161286e-01	1.693253e-01	6.192546e-02	
988	Uncertain_Probability	Quantum_mechanics	-1.564942e+00	6.706601e-01	1.964043e-02	*
989	Uncertain_Probability	Particle_physics	1.404331e+00	5.803593e-01	1.554429e-02	*
990	Uncertain_Probability	Materials_science	-1.058571e-01	1.000304e-01	2.899614e-01	
991	Uncertain_Probability	Computational_biology	3.006389e-02	2.462681e-01	9.028392e-01	
992	Uncertain_Probability	Agronomy	7.525581e-01	1.318497e-01	1.170073e-08	***
993	Uncertain_Probability	Environmental_resource management	-3.349536e-04	7.605521e-02	9.964861e-01	
994	Uncertain_Probability	Molecular_biology	-1.695191e-01	4.926034e-02	5.807595e-04	***
995	Uncertain_Probability	Dermatology	-1.454835e-01	6.710043e-02	3.016557e-02	*
996	Uncertain_Probability	Engineering	1.050522e-01	1.786432e-01	5.565050e-01	
997	Uncertain_Probability	Surgery	-5.300246e-02	2.505216e-02	3.439057e-02	*
998	Uncertain_Probability	Public_health	7.830558e-02	3.414137e-02	2.183108e-02	*
999	Uncertain_Probability	Molecular_physics	7.751471e-01	2.464528e-01	1.663373e-03	**
1000	Uncertain_Probability	Bioinformatics	2.884182e-02	1.129317e-01	7.984246e-01	
1001	Uncertain_Probability	Physics	-1.955471e-01	1.282568e-01	1.273699e-01	
1002	Uncertain_Probability	Cognitive_psychology	6.335820e-03	6.430769e-02	9.215181e-01	
1003	Uncertain_Probability	Oncology	-4.123643e-02	4.424295e-02	3.513304e-01	
1004	Uncertain_Probability	Pathology	-7.967555e-03	4.588720e-02	8.621562e-01	
1005	Uncertain_Probability	Biochemistry	1.289871e-01	6.283979e-02	4.012798e-02	*
1006	Uncertain_Probability	Social_science	-2.549511e-02	2.501209e-01	9.188129e-01	
1007	Uncertain_Probability	Climatology	1.274779e-01	6.947653e-02	6.655302e-02	
1008	Uncertain_Probability	Pharmacology	2.743227e-01	1.002892e-01	6.240440e-03	**
1009	Uncertain_Probability	Agriculture	1.816577e-01	8.105492e-02	2.503190e-02	*
1010	Uncertain_Probability	Neuroscience	-2.011369e-01	5.393076e-02	1.926414e-04	***
1011	Uncertain_Probability	Fishery	-9.168263e-02	1.153944e-01	4.269098e-01	
1012	Uncertain_Probability	Virology	-9.027212e-02	5.203463e-02	8.279154e-02	
1013	Uncertain_Probability	Microbiology	-1.559873e-02	7.739787e-02	8.402798e-01	
1014	Uncertain_Probability	Communication	5.693697e-02	7.947642e-02	4.737567e-01	
1015	Uncertain_Probability	Endocrinology	6.499492e-02	2.562771e-02	1.122043e-02	*
1016	Uncertain_Probability	Epigenetics	4.674699e-02	7.675768e-02	5.425216e-01	
1017	Uncertain_Probability	Marketing	-1.511546e-02	8.280261e-02	8.551555e-01	
1018	Uncertain_Probability	Global_health	3.787636e-01	1.216342e-01	1.849953e-03	**
1019	Uncertain_Probability	Agroforestry	-2.422385e-01	1.062758e-01	2.266304e-02	*
1020	Uncertain_Probability	Chemistry	-2.383692e-02	8.877427e-02	7.883098e-01	
1021	Uncertain_Probability	Mathematics	-6.605296e-01	2.587135e-01	1.068721e-02	*
1022	Uncertain_Probability	Gynecology	6.249617e-02	4.244360e-02	1.409229e-01	
1023	Uncertain_Probability	Gerontology	-5.766104e-02	4.498158e-02	1.999072e-01	
1024	Uncertain_Probability	Meteorology	-2.162686e-02	1.344838e-01	8.722424e-01	
1025	Uncertain_Probability	Veterinary_medicine	7.791393e-01	3.070121e-01	1.116630e-02	*
1026	Uncertain_Probability	Government	-1.322401e-01	9.029177e-02	1.430578e-01	
1027	Uncertain_Probability	Dentistry	4.520162e-01	1.664582e-01	6.626408e-03	**
1028	Uncertain_Probability	Microeconomics	-1.542488e-01	1.414857e-01	2.756417e-01	
1029	Uncertain_Probability	Sociology	-2.859694e-01	1.765509e-01	1.053089e-01	
1030	Uncertain_Probability	Emergency_medicine	-8.611641e-02	3.764246e-02	2.216820e-02	*
1031	Uncertain_Probability	Pediatrics	-6.094757e-02	3.023622e-02	4.385034e-02	*
1032	Uncertain_Probability	Advertising	7.636235e-02	8.194060e-02	3.513934e-01	
1033	Uncertain_Probability	Oceanography	1.628944e-01	1.248852e-01	1.921361e-01	
1034	Uncertain_Probability	Developmental_psychology	4.093758e-02	4.514958e-02	3.645768e-01	
1035	Uncertain_Probability	Internal_medicine	-3.554110e-02	2.470047e-02	1.502074e-01	
1036	Uncertain_Probability	Cardiology	2.605576e-02	3.930417e-02	5.073896e-01	
1037	Uncertain_Probability	Environmental_engineering	-6.175185e-02	1.185218e-01	6.023641e-01	

1038	Uncertain_Probability	General_surgery	-7.962692e-02	4.583841e-02	8.238921e-02	
1039	Uncertain_Probability	Environmental_science	8.932392e-02	9.336765e-02	3.387413e-01	
1040	Uncertain_Probability	Geophysics	7.440402e-02	2.424030e-01	7.588913e-01	
1041	Uncertain_Probability	Immunology	6.618625e-02	3.241235e-02	4.117085e-02	*
1042	Uncertain_Probability	Clinical_psychology	-9.215721e-02	4.678780e-02	4.889565e-02	*
1043	Uncertain_Probability	Toxicology	-2.213692e-01	1.510432e-01	1.427810e-01	
1044	Uncertain_Probability	Ecology	8.688322e-02	3.604414e-02	1.594582e-02	*
1045	Uncertain_Probability	Biology	1.721073e-02	6.910098e-02	8.033133e-01	
1046	Uncertain_Probability	Epidemiology	1.898233e-02	3.794267e-02	6.168794e-01	
1047	Uncertain_Probability	Physical_therapy	-2.833412e-02	2.468372e-02	2.510362e-01	
1048	Uncertain_Probability	Physiology	-1.229246e-01	9.530415e-02	1.971382e-01	
1049	Uncertain_Probability	Statistics	1.634806e-01	3.050575e-01	5.920361e-01	
1050	Uncertain_Probability	Psychopathology	-9.333176e-02	1.106242e-01	3.988622e-01	
1051	Uncertain_Probability	Animal_science	5.686181e-02	1.728219e-01	7.421460e-01	
1052	Uncertain_Probability	Nursing	1.016668e-02	4.483078e-02	8.205991e-01	
1053	Uncertain_Probability	Seismology	4.151404e-01	1.895768e-01	2.855437e-02	*
1054	Uncertain_Probability	History	-3.462328e-01	5.304454e-01	5.139478e-01	
1055	Uncertain_Probability	Psychiatry	-3.184194e-02	3.142701e-02	3.109820e-01	
1056	Uncertain_Probability	Zoology	2.374243e-02	8.242409e-02	7.733115e-01	
1057	Uncertain_Probability	Psychology	-9.577284e-03	6.857302e-02	8.889265e-01	
1058	Uncertain_Probability	Etiology	-1.616802e-01	8.791349e-02	6.592572e-02	
1059	Uncertain_Probability	Geomorphology	3.686531e-01	1.034162e-01	3.655020e-04	***
1060	Uncertain_Probability	Atmospheric_sciences	7.436546e-02	1.109630e-01	5.027534e-01	
1061	Uncertain_Probability	Geography	-1.592509e-01	9.537114e-02	9.498255e-02	
1062	Uncertain_Probability	Demography	5.428162e-02	2.897884e-02	6.107044e-02	
1063	Uncertain_Probability	Geology	-4.776377e-02	1.036828e-01	6.450414e-01	
1064	Uncertain_Probability	Medicine	-1.335884e-01	5.908720e-02	2.378376e-02	*
1065	Uncertain_Probability	Family_medicine	-1.483964e-02	2.954125e-02	6.154395e-01	
1066	Uncertain_Probability	Evolutionary_biology	-6.045480e-02	7.368139e-02	4.119522e-01	
1067	Uncertain_Probability	Astrobiology	-3.944000e-02	1.568821e-01	8.015096e-01	
1068	Uncertain_Probability	Astronomy	2.974058e-01	1.176963e-01	1.151939e-02	*
1069	Uncertain_Probability	Astrophysics	1.921862e-02	1.815548e-01	9.156984e-01	
1070	Uncertain_Probability	Geochemistry	4.483335e-01	1.762395e-01	1.097407e-02	*
1071	Uncertain_Probability	Business	1.197080e-01	1.006357e-01	2.342574e-01	
1072	Uncertain_Probability	Finance	-3.773369e-02	1.066076e-01	7.233826e-01	
1073	Uncertain_Probability	Management_science	-8.347154e-13	1.709081e-12	6.252747e-01	
1074	Uncertain_Probability	Social_psychology	-2.219061e-02	3.450919e-02	5.202129e-01	
1075	Uncertain_Probability	Political_science	-2.748613e-01	1.603249e-01	8.647861e-02	
1076	Uncertain_Probability	Archaeology	-2.405449e-01	1.559200e-01	1.229166e-01	
1077	Uncertain_Probability	Economics	5.350383e-02	7.875878e-02	4.969358e-01	
1078	Uncertain_Probability	Paleontology	2.257395e-01	9.646907e-02	1.929774e-02	*
1079	Uncertain_Probability	Criminology	-3.320738e-01	2.246573e-01	1.393958e-01	
1080	Uncertain_Condition	Intercept	0.000000e+00	0.000000e+00	NaN	
1081	Uncertain_Condition	source[T.news]	0.000000e+00	0.000000e+00	NaN	
1082	Uncertain_Condition	finding_len	0.000000e+00	0.000000e+00	NaN	
1083	Uncertain_Condition	flesch_reading_ease	0.000000e+00	0.000000e+00	NaN	
1084	Uncertain_Condition	first_author_rank	0.000000e+00	0.000000e+00	NaN	
1085	Uncertain_Condition	affi_rank	0.000000e+00	0.000000e+00	NaN	
1086	Uncertain_Condition	num_authors	0.000000e+00	0.000000e+00	NaN	
1087	Uncertain_Condition	journal_impact	0.000000e+00	0.000000e+00	NaN	
1088	Uncertain_Condition	Law	0.000000e+00	0.000000e+00	NaN	
1089	Uncertain_Condition	Condensed_matter_physics	0.000000e+00	0.000000e+00	NaN	
1090	Uncertain_Condition	Biomedical_engineering	0.000000e+00	0.000000e+00	NaN	
1091	Uncertain_Condition	Hydrology	0.000000e+00	0.000000e+00	NaN	
1092	Uncertain_Condition	Atomic_physics	0.000000e+00	0.000000e+00	NaN	
1093	Uncertain_Condition	Development_economics	0.000000e+00	0.000000e+00	NaN	
1094	Uncertain_Condition	Optics	0.000000e+00	0.000000e+00	NaN	
1095	Uncertain_Condition	Public_policy	0.000000e+00	0.000000e+00	NaN	
1096	Uncertain_Condition	Lung_cancer	0.000000e+00	0.000000e+00	NaN	
1097	Uncertain_Condition	Electronic_engineering	0.000000e+00	0.000000e+00	NaN	
1098	Uncertain_Condition	Artificial_intelligence	0.000000e+00	0.000000e+00	NaN	
1099	Uncertain_Condition	Machine_learning	0.000000e+00	0.000000e+00	NaN	
1100	Uncertain_Condition	Gender_studies	0.000000e+00	0.000000e+00	NaN	
1101	Uncertain_Condition	Chemical_engineering	0.000000e+00	0.000000e+00	NaN	
1102	Uncertain_Condition	Biophysics	0.000000e+00	0.000000e+00	NaN	
1103	Uncertain_Condition	Analytical_chemistry	0.000000e+00	0.000000e+00	NaN	
1104	Uncertain_Condition	Computer_science	0.000000e+00	0.000000e+00	NaN	
1105	Uncertain_Condition	Radiology	0.000000e+00	0.000000e+00	NaN	
1106	Uncertain_Condition	Urology	0.000000e+00	0.000000e+00	NaN	
1107	Uncertain_Condition	Architecture	0.000000e+00	0.000000e+00	NaN	

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1108	Uncertain_Condition	Quantum_mechanics	0.000000e+00	0.000000e+00	NaN
1109	Uncertain_Condition	Particle_physics	0.000000e+00	0.000000e+00	NaN
1110	Uncertain_Condition	Materials_science	0.000000e+00	0.000000e+00	NaN
1111	Uncertain_Condition	Computational_biology	0.000000e+00	0.000000e+00	NaN
1112	Uncertain_Condition	Agronomy	0.000000e+00	0.000000e+00	NaN
1113	Uncertain_Condition	Environmental_resource management	0.000000e+00	0.000000e+00	NaN
1114	Uncertain_Condition	Molecular_biology	0.000000e+00	0.000000e+00	NaN
1115	Uncertain_Condition	Dermatology	0.000000e+00	0.000000e+00	NaN
1116	Uncertain_Condition	Engineering	0.000000e+00	0.000000e+00	NaN
1117	Uncertain_Condition	Surgery	0.000000e+00	0.000000e+00	NaN
1118	Uncertain_Condition	Public_health	0.000000e+00	0.000000e+00	NaN
1119	Uncertain_Condition	Molecular_physics	0.000000e+00	0.000000e+00	NaN
1120	Uncertain_Condition	Bioinformatics	0.000000e+00	0.000000e+00	NaN
1121	Uncertain_Condition	Physics	0.000000e+00	0.000000e+00	NaN
1122	Uncertain_Condition	Cognitive_psychology	0.000000e+00	0.000000e+00	NaN
1123	Uncertain_Condition	Oncology	0.000000e+00	0.000000e+00	NaN
1124	Uncertain_Condition	Pathology	0.000000e+00	0.000000e+00	NaN
1125	Uncertain_Condition	Biochemistry	0.000000e+00	0.000000e+00	NaN
1126	Uncertain_Condition	Social_science	0.000000e+00	0.000000e+00	NaN
1127	Uncertain_Condition	Climatology	0.000000e+00	0.000000e+00	NaN
1128	Uncertain_Condition	Pharmacology	0.000000e+00	0.000000e+00	NaN
1129	Uncertain_Condition	Agriculture	0.000000e+00	0.000000e+00	NaN
1130	Uncertain_Condition	Neuroscience	0.000000e+00	0.000000e+00	NaN
1131	Uncertain_Condition	Fishery	0.000000e+00	0.000000e+00	NaN
1132	Uncertain_Condition	Virology	0.000000e+00	0.000000e+00	NaN
1133	Uncertain_Condition	Microbiology	0.000000e+00	0.000000e+00	NaN
1134	Uncertain_Condition	Communication	0.000000e+00	0.000000e+00	NaN
1135	Uncertain_Condition	Endocrinology	0.000000e+00	0.000000e+00	NaN
1136	Uncertain_Condition	Epigenetics	0.000000e+00	0.000000e+00	NaN
1137	Uncertain_Condition	Marketing	0.000000e+00	0.000000e+00	NaN
1138	Uncertain_Condition	Global_health	0.000000e+00	0.000000e+00	NaN
1139	Uncertain_Condition	Agroforestry	0.000000e+00	0.000000e+00	NaN
1140	Uncertain_Condition	Chemistry	0.000000e+00	0.000000e+00	NaN
1141	Uncertain_Condition	Mathematics	0.000000e+00	0.000000e+00	NaN
1142	Uncertain_Condition	Gynecology	0.000000e+00	0.000000e+00	NaN
1143	Uncertain_Condition	Gerontology	0.000000e+00	0.000000e+00	NaN
1144	Uncertain_Condition	Meteorology	0.000000e+00	0.000000e+00	NaN
1145	Uncertain_Condition	Veterinary_medicine	0.000000e+00	0.000000e+00	NaN
1146	Uncertain_Condition	Government	0.000000e+00	0.000000e+00	NaN
1147	Uncertain_Condition	Dentistry	0.000000e+00	0.000000e+00	NaN
1148	Uncertain_Condition	Microeconomics	0.000000e+00	0.000000e+00	NaN
1149	Uncertain_Condition	Sociology	0.000000e+00	0.000000e+00	NaN
1150	Uncertain_Condition	Emergency_medicine	0.000000e+00	0.000000e+00	NaN
1151	Uncertain_Condition	Pediatrics	0.000000e+00	0.000000e+00	NaN
1152	Uncertain_Condition	Advertising	0.000000e+00	0.000000e+00	NaN
1153	Uncertain_Condition	Oceanography	0.000000e+00	0.000000e+00	NaN
1154	Uncertain_Condition	Developmental_psychology	0.000000e+00	0.000000e+00	NaN
1155	Uncertain_Condition	Internal_medicine	0.000000e+00	0.000000e+00	NaN
1156	Uncertain_Condition	Cardiology	0.000000e+00	0.000000e+00	NaN
1157	Uncertain_Condition	Environmental_engineering	0.000000e+00	0.000000e+00	NaN
1158	Uncertain_Condition	General_surgery	0.000000e+00	0.000000e+00	NaN
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1160	Uncertain_Condition	Geophysics	0.000000e+00	0.000000e+00	NaN
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1166	Uncertain_Condition	Epidemiology	0.000000e+00	0.000000e+00	NaN
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1168	Uncertain_Condition	Physiology	0.000000e+00	0.000000e+00	NaN
1169	Uncertain_Condition	Statistics	0.000000e+00	0.000000e+00	NaN
1170	Uncertain_Condition	Psychopathology	0.000000e+00	0.000000e+00	NaN
1171	Uncertain_Condition	Animal_science	0.000000e+00	0.000000e+00	NaN
1172	Uncertain_Condition	Nursing	0.000000e+00	0.000000e+00	NaN
1173	Uncertain_Condition	Seismology	0.000000e+00	0.000000e+00	NaN
1174	Uncertain_Condition	History	0.000000e+00	0.000000e+00	NaN
1175	Uncertain_Condition	Psychiatry	0.000000e+00	0.000000e+00	NaN
1176	Uncertain_Condition	Zoology	0.000000e+00	0.000000e+00	NaN

1177	Uncertain_Condition	Psychology	0.000000e+00	0.000000e+00	NaN	
1178	Uncertain_Condition	Etiology	0.000000e+00	0.000000e+00	NaN	
1179	Uncertain_Condition	Geomorphology	0.000000e+00	0.000000e+00	NaN	
1180	Uncertain_Condition	Atmospheric_sciences	0.000000e+00	0.000000e+00	NaN	
1181	Uncertain_Condition	Geography	0.000000e+00	0.000000e+00	NaN	
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1183	Uncertain_Condition	Geology	0.000000e+00	0.000000e+00	NaN	
1184	Uncertain_Condition	Medicine	0.000000e+00	0.000000e+00	NaN	
1185	Uncertain_Condition	Family_medicine	0.000000e+00	0.000000e+00	NaN	
1186	Uncertain_Condition	Evolutionary_biology	0.000000e+00	0.000000e+00	NaN	
1187	Uncertain_Condition	Astrobiology	0.000000e+00	0.000000e+00	NaN	
1188	Uncertain_Condition	Astronomy	0.000000e+00	0.000000e+00	NaN	
1189	Uncertain_Condition	Astrophysics	0.000000e+00	0.000000e+00	NaN	
1190	Uncertain_Condition	Geochemistry	0.000000e+00	0.000000e+00	NaN	
1191	Uncertain_Condition	Business	0.000000e+00	0.000000e+00	NaN	
1192	Uncertain_Condition	Finance	0.000000e+00	0.000000e+00	NaN	
1193	Uncertain_Condition	Management_science	0.000000e+00	0.000000e+00	NaN	
1194	Uncertain_Condition	Social_psychology	0.000000e+00	0.000000e+00	NaN	
1195	Uncertain_Condition	Political_science	0.000000e+00	0.000000e+00	NaN	
1196	Uncertain_Condition	Archaeology	0.000000e+00	0.000000e+00	NaN	
1197	Uncertain_Condition	Economics	0.000000e+00	0.000000e+00	NaN	
1198	Uncertain_Condition	Paleontology	0.000000e+00	0.000000e+00	NaN	
1199	Uncertain_Condition	Criminology	0.000000e+00	0.000000e+00	NaN	
1200	Uncertain_Suggestion	Intercept	2.670386e-02	8.583111e-03	1.867244e-03	**
1201	Uncertain_Suggestion	source[T.news]	2.067624e-03	1.205908e-03	8.644614e-02	
1202	Uncertain_Suggestion	finding_len	-2.445807e-04	6.805788e-05	3.271960e-04	***
1203	Uncertain_Suggestion	flesch_reading_ease	-7.451400e-05	2.714587e-05	6.060328e-03	**
1204	Uncertain_Suggestion	first_author_rank	-6.141558e-07	3.476037e-07	7.728045e-02	
1205	Uncertain_Suggestion	affi_rank	-7.612485e-07	3.466763e-07	2.812034e-02	*
1206	Uncertain_Suggestion	num_authors	-4.797802e-05	4.726386e-05	3.100722e-01	
1207	Uncertain_Suggestion	journal_impact	-6.819403e-05	4.873051e-05	1.617134e-01	
1208	Uncertain_Suggestion	Law	-1.560751e-02	2.363612e-02	5.090574e-01	
1209	Uncertain_Suggestion	Condensed_matter_physics	-1.280859e-02	4.815663e-02	7.902605e-01	
1210	Uncertain_Suggestion	Biomedical_engineering	-3.277797e-02	4.549649e-02	4.712605e-01	
1211	Uncertain_Suggestion	Hydrology	-3.560857e-03	3.990404e-02	9.288961e-01	
1212	Uncertain_Suggestion	Atomic_physics	-5.982489e-03	5.663964e-02	9.158825e-01	
1213	Uncertain_Suggestion	Development_economics	-1.272990e-02	6.445440e-02	8.434375e-01	
1214	Uncertain_Suggestion	Optics	-2.384740e-02	7.031837e-02	7.345137e-01	
1215	Uncertain_Suggestion	Public_policy	-2.387632e-02	4.326321e-02	5.810366e-01	
1216	Uncertain_Suggestion	Lung_cancer	-1.331188e-02	1.027060e-02	1.949588e-01	
1217	Uncertain_Suggestion	Electronic_engineering	-5.748026e-02	1.181787e-01	6.267030e-01	
1218	Uncertain_Suggestion	Artificial_intelligence	-7.498732e-03	5.975898e-02	9.001432e-01	
1219	Uncertain_Suggestion	Machine_learning	-1.358001e-02	6.330292e-02	8.301416e-01	
1220	Uncertain_Suggestion	Gender_studies	-6.031476e-03	3.805883e-02	8.740829e-01	
1221	Uncertain_Suggestion	Chemical_engineering	-2.975552e-02	4.442856e-02	5.030363e-01	
1222	Uncertain_Suggestion	Biophysics	-2.138889e-02	2.725811e-02	4.326555e-01	
1223	Uncertain_Suggestion	Analytical_chemistry	-4.135868e-02	4.833551e-02	3.922026e-01	
1224	Uncertain_Suggestion	Computer_science	2.391564e-03	3.183634e-02	9.401199e-01	
1225	Uncertain_Suggestion	Radiology	3.566238e-02	1.134561e-02	1.674428e-03	**
1226	Uncertain_Suggestion	Urology	-8.399161e-03	1.715366e-02	6.243952e-01	
1227	Uncertain_Suggestion	Architecture	-1.131125e-02	3.894664e-02	7.714923e-01	
1228	Uncertain_Suggestion	Quantum_mechanics	-2.345793e-02	1.542590e-01	8.791353e-01	
1229	Uncertain_Suggestion	Particle_physics	1.044366e-02	1.334888e-01	9.376413e-01	
1230	Uncertain_Suggestion	Materials_science	5.366930e-02	2.300805e-02	1.968263e-02	*
1231	Uncertain_Suggestion	Computational_biology	-1.665146e-02	5.664429e-02	7.687890e-01	
1232	Uncertain_Suggestion	Agronomy	3.898630e-02	3.032684e-02	1.986273e-01	
1233	Uncertain_Suggestion	Environmental_resource management	-1.301216e-02	1.749351e-02	4.569939e-01	
1234	Uncertain_Suggestion	Molecular_biology	-1.223814e-02	1.133040e-02	2.801109e-01	
1235	Uncertain_Suggestion	Dermatology	-4.565215e-03	1.543382e-02	7.673929e-01	
1236	Uncertain_Suggestion	Engineering	-4.783412e-03	4.108985e-02	9.073266e-01	
1237	Uncertain_Suggestion	Surgery	9.958769e-03	5.762264e-03	8.396286e-02	
1238	Uncertain_Suggestion	Public_health	1.179314e-02	7.852879e-03	1.331833e-01	
1239	Uncertain_Suggestion	Molecular_physics	-5.269004e-02	5.668678e-02	3.526502e-01	
1240	Uncertain_Suggestion	Bioinformatics	1.007092e-01	2.597550e-02	1.062335e-04	***
1241	Uncertain_Suggestion	Physics	1.197093e-03	2.950044e-02	9.676323e-01	
1242	Uncertain_Suggestion	Cognitive_psychology	-2.037807e-02	1.479146e-02	1.683220e-01	
1243	Uncertain_Suggestion	Oncology	2.811483e-03	1.017635e-02	7.823404e-01	
1244	Uncertain_Suggestion	Pathology	1.741977e-02	1.055455e-02	9.887460e-02	
1245	Uncertain_Suggestion	Biochemistry	-2.880700e-02	1.445382e-02	4.627820e-02	*

1246	Uncertain_Suggestion Social_science	-8.064522e-03	5.753048e-02	8.885213e-01	
1247	Uncertain_Suggestion Climatology	-7.746988e-03	1.598035e-02	6.278389e-01	
1248	Uncertain_Suggestion Pharmacology	-1.154582e-02	2.306758e-02	6.167163e-01	
1249	Uncertain_Suggestion Agriculture	4.581642e-02	1.864350e-02	1.400364e-02	*
1250	Uncertain_Suggestion Neuroscience	-1.739951e-02	1.240465e-02	1.607419e-01	
1251	Uncertain_Suggestion Fishery	-7.357160e-03	2.654194e-02	7.816386e-01	
1252	Uncertain_Suggestion Virology	-1.025838e-02	1.196852e-02	3.913980e-01	
1253	Uncertain_Suggestion Microbiology	-1.407277e-02	1.780234e-02	4.292493e-01	
1254	Uncertain_Suggestion Communication	-7.775990e-03	1.828042e-02	6.705721e-01	
1255	Uncertain_Suggestion Endocrinology	3.306488e-03	5.894647e-03	5.748545e-01	
1256	Uncertain_Suggestion Epigenetics	-1.170532e-02	1.765509e-02	5.073423e-01	
1257	Uncertain_Suggestion Marketing	-5.890505e-03	1.904549e-02	7.571088e-01	
1258	Uncertain_Suggestion Global_health	-1.616995e-02	2.797716e-02	5.632946e-01	
1259	Uncertain_Suggestion Agroforestry	-3.457540e-02	2.444457e-02	1.572564e-01	
1260	Uncertain_Suggestion Chemistry	4.551077e-02	2.041903e-02	2.584143e-02	*
1261	Uncertain_Suggestion Mathematics	-6.080060e-03	5.950688e-02	9.186201e-01	
1262	Uncertain_Suggestion Gynecology	2.745621e-03	9.762481e-03	7.785292e-01	
1263	Uncertain_Suggestion Gerontology	-8.913656e-04	1.034624e-02	9.313457e-01	
1264	Uncertain_Suggestion Meteorology	-4.081652e-03	3.093270e-02	8.950238e-01	
1265	Uncertain_Suggestion Veterinary_medicine	-7.778878e-03	7.061607e-02	9.122863e-01	
1266	Uncertain_Suggestion Government	-1.333452e-02	2.076807e-02	5.208401e-01	
1267	Uncertain_Suggestion Dentistry	-1.935093e-02	3.828716e-02	6.132755e-01	
1268	Uncertain_Suggestion Microeconomics	-4.715370e-03	3.254322e-02	8.847955e-01	
1269	Uncertain_Suggestion Sociology	1.055573e-02	4.060861e-02	7.949155e-01	
1270	Uncertain_Suggestion Emergency_medicine	-3.961473e-03	8.658169e-03	6.472894e-01	
1271	Uncertain_Suggestion Pediatrics	6.111426e-03	6.954654e-03	3.795511e-01	
1272	Uncertain_Suggestion Advertising	-2.567259e-03	1.884721e-02	8.916540e-01	
1273	Uncertain_Suggestion Oceanography	-3.292443e-03	2.872492e-02	9.087483e-01	
1274	Uncertain_Suggestion Developmental_psychology	1.077173e-02	1.038488e-02	2.996384e-01	
1275	Uncertain_Suggestion Internal_medicine	5.978058e-03	5.681371e-03	2.927176e-01	
1276	Uncertain_Suggestion Cardiology	1.268667e-02	9.040379e-03	1.605410e-01	
1277	Uncertain_Suggestion Environmental_engineering	-3.178909e-02	2.726129e-02	2.435998e-01	
1278	Uncertain_Suggestion General_surgery	-8.651048e-03	1.054332e-02	4.119326e-01	
1279	Uncertain_Suggestion Environmental_science	5.042320e-03	2.147556e-02	8.143727e-01	
1280	Uncertain_Suggestion Geophysics	-4.891734e-03	5.575528e-02	9.300880e-01	
1281	Uncertain_Suggestion Immunology	-2.452741e-03	7.455186e-03	7.421625e-01	
1282	Uncertain_Suggestion Clinical_psychology	1.072300e-02	1.076169e-02	3.190724e-01	
1283	Uncertain_Suggestion Toxicology	-2.410973e-02	3.474156e-02	4.877110e-01	
1284	Uncertain_Suggestion Ecology	-6.095057e-03	8.290536e-03	4.622416e-01	
1285	Uncertain_Suggestion Biology	1.154563e-02	1.589396e-02	4.675968e-01	
1286	Uncertain_Suggestion Epidemiology	-8.426049e-03	8.727219e-03	3.343170e-01	
1287	Uncertain_Suggestion Physical_therapy	1.584206e-02	5.677519e-03	5.273329e-03	**
1288	Uncertain_Suggestion Physiology	-5.625106e-03	2.192097e-02	7.974851e-01	
1289	Uncertain_Suggestion Statistics	5.057500e-03	7.016649e-02	9.425405e-01	
1290	Uncertain_Suggestion Psychopathology	-1.015400e-02	2.544476e-02	6.898552e-01	
1291	Uncertain_Suggestion Animal_science	-7.754407e-03	3.975088e-02	8.453372e-01	
1292	Uncertain_Suggestion Nursing	8.284643e-03	1.031156e-02	4.217394e-01	
1293	Uncertain_Suggestion Seismology	-8.361010e-03	4.360468e-02	8.479444e-01	
1294	Uncertain_Suggestion History	1.495849e-02	1.220081e-01	9.024238e-01	
1295	Uncertain_Suggestion Psychiatry	1.481884e-02	7.228549e-03	4.038008e-02	*
1296	Uncertain_Suggestion Zoology	-1.115926e-02	1.895842e-02	5.561281e-01	
1297	Uncertain_Suggestion Psychology	2.402052e-02	1.577253e-02	1.277994e-01	
1298	Uncertain_Suggestion Etiology	-1.341029e-02	2.022104e-02	5.072238e-01	
1299	Uncertain_Suggestion Geomorphology	-5.172582e-03	2.378683e-02	8.278566e-01	
1300	Uncertain_Suggestion Atmospheric_sciences	-2.766515e-03	2.552268e-02	9.136845e-01	
1301	Uncertain_Suggestion Geography	-5.384843e-04	2.193638e-02	9.804162e-01	
1302	Uncertain_Suggestion Demography	2.255693e-03	6.665442e-03	7.350551e-01	
1303	Uncertain_Suggestion Geology	5.191933e-03	2.384814e-02	8.276600e-01	
1304	Uncertain_Suggestion Medicine	-5.656349e-03	1.359069e-02	6.772756e-01	
1305	Uncertain_Suggestion Family_medicine	3.107898e-02	6.794802e-03	4.830554e-06	***
1306	Uncertain_Suggestion Evolutionary_biology	-1.194638e-02	1.694751e-02	4.808822e-01	
1307	Uncertain_Suggestion Astrobiology	-9.176464e-03	3.608456e-02	7.992644e-01	
1308	Uncertain_Suggestion Astronomy	-4.942890e-03	2.707140e-02	8.551248e-01	
1309	Uncertain_Suggestion Astrophysics	-3.751304e-03	4.175956e-02	9.284229e-01	
1310	Uncertain_Suggestion Geochemistry	-4.843630e-03	4.053698e-02	9.048916e-01	
1311	Uncertain_Suggestion Business	-1.435803e-03	2.314729e-02	9.505407e-01	
1312	Uncertain_Suggestion Finance	-7.500047e-03	2.452089e-02	7.597134e-01	
1313	Uncertain_Suggestion Management_science	-1.752187e-13	3.931069e-13	6.558012e-01	
1314	Uncertain_Suggestion Social_psychology	-2.547493e-02	7.937484e-03	1.333123e-03	**
1315	Uncertain_Suggestion Political_science	4.882161e-03	3.687643e-02	8.946759e-01	

1316	Uncertain_Suggestion	Archaeology	-1.840884e-03	3.586326e-02	9.590628e-01	
1317	Uncertain_Suggestion	Economics	-2.313135e-03	1.811536e-02	8.983969e-01	
1318	Uncertain_Suggestion	Paleontology	-1.281670e-02	2.218892e-02	5.635324e-01	
1319	Uncertain_Suggestion	Criminology	-2.036915e-02	5.167358e-02	6.934480e-01	
1320	Uncertain_Framing	Intercept	8.281496e-02	1.605147e-02	2.514565e-07	***
1321	Uncertain_Framing	source[T.news]	-7.710937e-03	2.255195e-03	6.300010e-04	***
1322	Uncertain_Framing	finding_len	5.739700e-04	1.272765e-04	6.550709e-06	***
1323	Uncertain_Framing	flesch_reading_ease	-1.602138e-04	5.076609e-05	1.603560e-03	**
1324	Uncertain_Framing	first_author_rank	-1.394150e-06	6.500613e-07	3.199970e-02	*
1325	Uncertain_Framing	affi_rank	-1.812258e-06	6.483269e-07	5.192976e-03	**
1326	Uncertain_Framing	num_authors	-5.742586e-06	8.838919e-05	9.481994e-01	
1327	Uncertain_Framing	journal_impact	-3.303234e-05	9.113199e-05	7.170090e-01	
1328	Uncertain_Framing	Law	1.873384e-01	4.420243e-02	2.268742e-05	***
1329	Uncertain_Framing	Condensed_matter_physics	-2.862624e-01	9.005878e-02	1.483244e-03	**
1330	Uncertain_Framing	Biomedical_engineering	-3.400521e-02	8.508398e-02	6.894087e-01	
1331	Uncertain_Framing	Hydrology	-3.692180e-02	7.462543e-02	6.207767e-01	
1332	Uncertain_Framing	Atomic_physics	-6.035571e-02	1.059230e-01	5.688183e-01	
1333	Uncertain_Framing	Development_economics	-6.019191e-02	1.205376e-01	6.175327e-01	
1334	Uncertain_Framing	Optics	-6.412809e-02	1.315039e-01	6.258049e-01	
1335	Uncertain_Framing	Public_policy	-9.074627e-02	8.090749e-02	2.620509e-01	
1336	Uncertain_Framing	Lung_cancer	7.470580e-02	1.920728e-02	1.009687e-04	***
1337	Uncertain_Framing	Electronic_engineering	-4.896030e-02	2.210086e-01	8.246823e-01	
1338	Uncertain_Framing	Artificial_intelligence	-1.208984e-01	1.117566e-01	2.793609e-01	
1339	Uncertain_Framing	Machine_learning	3.247193e-01	1.183842e-01	6.097699e-03	**
1340	Uncertain_Framing	Gender_studies	-3.084225e-02	7.117466e-02	6.647809e-01	
1341	Uncertain_Framing	Chemical_engineering	-2.761438e-02	8.308683e-02	7.396261e-01	
1342	Uncertain_Framing	Biophysics	-2.576067e-02	5.097600e-02	6.133223e-01	
1343	Uncertain_Framing	Analytical_chemistry	8.234614e-04	9.039331e-02	9.927317e-01	
1344	Uncertain_Framing	Computer_science	-1.108400e-01	5.953785e-02	6.267171e-02	
1345	Uncertain_Framing	Radiology	-5.880081e-02	2.121768e-02	5.590992e-03	**
1346	Uncertain_Framing	Urology	-2.619999e-02	3.207945e-02	4.141021e-01	
1347	Uncertain_Framing	Architecture	-4.681033e-02	7.283497e-02	5.204363e-01	
1348	Uncertain_Framing	Quantum_mechanics	-9.729366e-02	2.884831e-01	7.359267e-01	
1349	Uncertain_Framing	Particle_physics	-1.780182e-02	2.496404e-01	9.431522e-01	
1350	Uncertain_Framing	Materials_science	-9.959486e-02	4.302787e-02	2.064701e-02	*
1351	Uncertain_Framing	Computational_biology	-4.683668e-02	1.059317e-01	6.583951e-01	
1352	Uncertain_Framing	Agronomy	-3.451915e-02	5.671490e-02	5.427715e-01	
1353	Uncertain_Framing	Environmental_resource man- agement	4.050763e-02	3.271500e-02	2.156651e-01	
1354	Uncertain_Framing	Molecular_biology	-3.798837e-02	2.118924e-02	7.302575e-02	
1355	Uncertain_Framing	Dermatology	-4.477060e-03	2.886312e-02	8.767342e-01	
1356	Uncertain_Framing	Engineering	-1.546452e-01	7.684303e-02	4.418968e-02	*
1357	Uncertain_Framing	Surgery	1.520634e-03	1.077614e-02	8.877842e-01	
1358	Uncertain_Framing	Public_health	-2.271512e-02	1.468584e-02	1.219511e-01	
1359	Uncertain_Framing	Molecular_physics	9.928907e-01	1.060112e-01	8.760939e-21	***
1360	Uncertain_Framing	Bioinformatics	-4.748700e-02	4.857736e-02	3.283129e-01	
1361	Uncertain_Framing	Physics	-9.519299e-03	5.516942e-02	8.630105e-01	
1362	Uncertain_Framing	Cognitive_psychology	-1.995946e-02	2.766183e-02	4.705827e-01	
1363	Uncertain_Framing	Oncology	3.211170e-03	1.903102e-02	8.660089e-01	
1364	Uncertain_Framing	Pathology	-3.439106e-02	1.973829e-02	8.147029e-02	
1365	Uncertain_Framing	Biochemistry	2.179685e-02	2.703041e-02	4.200371e-01	
1366	Uncertain_Framing	Social_science	1.348591e-02	1.075890e-01	9.002511e-01	
1367	Uncertain_Framing	Climatology	9.375349e-03	2.988519e-02	7.537447e-01	
1368	Uncertain_Framing	Pharmacology	-5.408905e-02	4.313919e-02	2.099276e-01	
1369	Uncertain_Framing	Agriculture	3.850984e-02	3.486561e-02	2.693871e-01	
1370	Uncertain_Framing	Neuroscience	-3.819941e-02	2.319821e-02	9.965345e-02	
1371	Uncertain_Framing	Fishery	-5.701099e-02	4.963666e-02	2.507560e-01	
1372	Uncertain_Framing	Virology	-4.021547e-03	2.238259e-02	8.574121e-01	
1373	Uncertain_Framing	Microbiology	-5.514412e-02	3.329254e-02	9.767489e-02	
1374	Uncertain_Framing	Communication	2.351208e-02	3.418662e-02	4.916181e-01	
1375	Uncertain_Framing	Endocrinology	-2.441709e-02	1.102371e-02	2.677994e-02	*
1376	Uncertain_Framing	Epigenetics	-2.447318e-02	3.301716e-02	4.585697e-01	
1377	Uncertain_Framing	Marketing	-3.028020e-02	3.561738e-02	3.952561e-01	
1378	Uncertain_Framing	Global_health	1.728898e-01	5.232070e-02	9.542772e-04	***
1379	Uncertain_Framing	Agroforestry	-6.645924e-02	4.571433e-02	1.460274e-01	
1380	Uncertain_Framing	Chemistry	-1.130828e-01	3.818608e-02	3.068327e-03	**
1381	Uncertain_Framing	Mathematics	-1.537482e-01	1.112851e-01	1.671275e-01	
1382	Uncertain_Framing	Gynecology	2.306441e-02	1.825703e-02	2.064980e-01	
1383	Uncertain_Framing	Gerontology	-3.461012e-03	1.934874e-02	8.580384e-01	
1384	Uncertain_Framing	Meteorology	7.683999e-03	5.784793e-02	8.943291e-01	

1385	Uncertain_Framing	Veterinary_medicine	3.167938e-01	1.320607e-01	1.646058e-02	*
1386	Uncertain_Framing	Government	-2.594031e-04	3.883883e-02	9.946711e-01	
1387	Uncertain_Framing	Dentistry	2.029945e-01	7.160167e-02	4.588857e-03	**
1388	Uncertain_Framing	Microeconomics	2.300896e-01	6.085978e-02	1.571153e-04	***
1389	Uncertain_Framing	Sociology	-1.089801e-01	7.594305e-02	1.513043e-01	
1390	Uncertain_Framing	Emergency_medicine	-2.438546e-02	1.619183e-02	1.320824e-01	
1391	Uncertain_Framing	Pediatrics	-5.797582e-04	1.300605e-02	9.644459e-01	
1392	Uncertain_Framing	Advertising	-3.070616e-02	3.524659e-02	3.836714e-01	
1393	Uncertain_Framing	Oceanography	1.924933e-01	5.371910e-02	3.404772e-04	***
1394	Uncertain_Framing	Developmental_psychology	-2.028550e-02	1.942100e-02	2.962671e-01	
1395	Uncertain_Framing	Internal_medicine	-3.495452e-02	1.062486e-02	1.004953e-03	**
1396	Uncertain_Framing	Cardiology	-1.344618e-02	1.690661e-02	4.264415e-01	
1397	Uncertain_Framing	Environmental_engineering	-7.050410e-02	5.098194e-02	1.667121e-01	
1398	Uncertain_Framing	General_surgery	1.948310e-02	1.971730e-02	3.231113e-01	
1399	Uncertain_Framing	Environmental_science	-8.912884e-02	4.016191e-02	2.648766e-02	*
1400	Uncertain_Framing	Geophysics	-1.023038e-01	1.042692e-01	3.265367e-01	
1401	Uncertain_Framing	Immunology	-1.522179e-02	1.394211e-02	2.749477e-01	
1402	Uncertain_Framing	Clinical_psychology	-3.370913e-02	2.012568e-02	9.397174e-02	
1403	Uncertain_Framing	Toxicology	2.826013e-02	6.497095e-02	6.635946e-01	
1404	Uncertain_Framing	Ecology	-4.505954e-03	1.550431e-02	7.713421e-01	
1405	Uncertain_Framing	Biology	-8.572393e-02	2.972365e-02	3.932622e-03	**
1406	Uncertain_Framing	Epidemiology	-7.238877e-03	1.632096e-02	6.573880e-01	
1407	Uncertain_Framing	Physical_therapy	3.665741e-03	1.061765e-02	7.299123e-01	
1408	Uncertain_Framing	Physiology	-4.007166e-02	4.099489e-02	3.283501e-01	
1409	Uncertain_Framing	Statistics	-2.529518e-03	1.312199e-01	9.846205e-01	
1410	Uncertain_Framing	Psychopathology	5.274026e-02	4.758480e-02	2.677343e-01	
1411	Uncertain_Framing	Animal_science	8.712150e-02	7.433899e-02	2.412390e-01	
1412	Uncertain_Framing	Nursing	-4.739154e-03	1.928387e-02	8.058739e-01	
1413	Uncertain_Framing	Seismology	-8.340940e-02	8.154607e-02	3.063977e-01	
1414	Uncertain_Framing	History	-7.951242e-02	2.281701e-01	7.274863e-01	
1415	Uncertain_Framing	Psychiatry	-1.074816e-02	1.351827e-02	4.265792e-01	
1416	Uncertain_Framing	Zoology	7.152264e-02	3.545456e-02	4.368420e-02	*
1417	Uncertain_Framing	Psychology	-5.413890e-02	2.949655e-02	6.646454e-02	
1418	Uncertain_Framing	Etiology	-3.168746e-02	3.781581e-02	4.020786e-01	
1419	Uncertain_Framing	Geomorphology	-3.529849e-02	4.448428e-02	4.274981e-01	
1420	Uncertain_Framing	Atmospheric_sciences	-9.218068e-02	4.773052e-02	5.347090e-02	
1421	Uncertain_Framing	Geography	-5.942883e-02	4.102371e-02	1.474605e-01	
1422	Uncertain_Framing	Demography	9.239116e-03	1.246519e-02	4.585895e-01	
1423	Uncertain_Framing	Geology	2.528768e-02	4.459893e-02	5.707226e-01	
1424	Uncertain_Framing	Medicine	-7.551127e-02	2.541624e-02	2.973872e-03	**
1425	Uncertain_Framing	Family_medicine	8.199466e-03	1.270711e-02	5.187661e-01	
1426	Uncertain_Framing	Evolutionary_biology	-5.102185e-03	3.169391e-02	8.721092e-01	
1427	Uncertain_Framing	Astrobiology	-1.282909e-01	6.748252e-02	5.731124e-02	
1428	Uncertain_Framing	Astronomy	1.609425e-01	5.062681e-02	1.481300e-03	**
1429	Uncertain_Framing	Astrophysics	-2.128578e-01	7.809546e-02	6.426819e-03	**
1430	Uncertain_Framing	Geochemistry	-1.096710e-01	7.580092e-02	1.480126e-01	
1431	Uncertain_Framing	Business	-1.029544e-01	4.328825e-02	1.740480e-02	*
1432	Uncertain_Framing	Finance	-4.962095e-02	4.585706e-02	2.792376e-01	
1433	Uncertain_Framing	Management_science	-9.394623e-13	7.351578e-13	2.013054e-01	
1434	Uncertain_Framing	Social_psychology	-2.200380e-02	1.484406e-02	1.382766e-01	
1435	Uncertain_Framing	Political_science	-9.999354e-02	6.896342e-02	1.470964e-01	
1436	Uncertain_Framing	Archaeology	-6.543096e-02	6.706866e-02	3.292899e-01	
1437	Uncertain_Framing	Economics	-3.821832e-02	3.387794e-02	2.592907e-01	
1438	Uncertain_Framing	Paleontology	-1.831027e-02	4.149598e-02	6.590363e-01	
1439	Uncertain_Framing	Criminology	-9.719018e-02	9.663591e-02	3.145614e-01	

Table 7: Regression coefficients for predicting aspect-level certainty with the source of the finding (RQ2).

	index	coeff	SE	p value	
0	Intercept	1.964574e+00	1.730216e-01	1.361045e-29	***
1	abs_Number_STATE[T.Certain]	2.844180e-02	1.696833e-02	9.375438e-02	
2	abs_Number_STATE[T.Uncertain]	-6.859408e-02	3.020092e-02	2.316485e-02	*
3	abs_Extent_STATE[T.Certain]	1.616107e-03	1.655072e-02	9.222167e-01	
4	abs_Extent_STATE[T.Uncertain]	2.899808e-02	2.107222e-02	1.688306e-01	
5	abs_Probability_STATE[T.Certain]	7.646274e-03	1.911305e-02	6.891295e-01	
6	abs_Probability_STATE[T.Uncertain]	-2.260107e-02	3.520943e-02	5.209589e-01	
7	abs_Condition_STATE[T.Certain]	-3.411162e-02	3.671247e-02	3.528436e-01	
8	abs_Suggestion_STATE[T.Certain]	-1.400909e-01	4.805333e-02	3.565707e-03	**
9	abs_Suggestion_STATE[T.Uncertain]	-6.587783e-02	9.853438e-02	5.037897e-01	
10	abs_Framing_STATE[T.Certain]	3.585483e-03	2.031451e-02	8.599079e-01	
11	abs_Framing_STATE[T.Uncertain]	-1.076960e-01	4.333388e-02	1.297133e-02	*
12	journal_impact_cat[T.1]	-9.913563e-03	9.633521e-02	9.180401e-01	
13	journal_impact_cat[T.10]	8.967768e-02	1.000680e-01	3.701977e-01	
14	journal_impact_cat[T.11-20]	1.451402e-02	9.405024e-02	8.773608e-01	
15	journal_impact_cat[T.2]	-1.059573e-02	9.449466e-02	9.107235e-01	
16	journal_impact_cat[T.21-30]	9.153368e-03	9.835565e-02	9.258557e-01	
17	journal_impact_cat[T.3]	-2.676568e-03	9.438566e-02	9.773777e-01	
18	journal_impact_cat[T.4]	1.233059e-02	9.435727e-02	8.960328e-01	
19	journal_impact_cat[T.5]	6.302687e-02	9.501415e-02	5.071358e-01	
20	journal_impact_cat[T.6]	-9.899351e-03	9.781021e-02	9.193871e-01	
21	journal_impact_cat[T.7]	2.351605e-02	9.806796e-02	8.104982e-01	
22	journal_impact_cat[T.8]	-8.979248e-03	9.976485e-02	9.282868e-01	
23	journal_impact_cat[T.9]	7.005939e-02	9.561894e-02	4.637724e-01	
24	journal_impact_cat[T.>30]	7.395042e-02	9.522755e-02	4.374443e-01	
25	num_authors_cat[T.10]	3.737626e-02	5.971992e-02	5.314299e-01	
26	num_authors_cat[T.11-20]	4.302108e-02	5.528899e-02	4.365315e-01	
27	num_authors_cat[T.2]	-3.563177e-02	5.627319e-02	5.266308e-01	
28	num_authors_cat[T.21-30]	-4.554514e-02	6.275255e-02	4.679948e-01	
29	num_authors_cat[T.3]	3.064185e-02	5.540858e-02	5.802718e-01	
30	num_authors_cat[T.4]	1.747497e-02	5.499067e-02	7.506618e-01	
31	num_authors_cat[T.5]	4.730588e-02	5.508287e-02	3.904764e-01	
32	num_authors_cat[T.6]	5.416085e-02	5.572517e-02	3.311237e-01	
33	num_authors_cat[T.7]	1.897214e-02	5.632460e-02	7.362519e-01	
34	num_authors_cat[T.8]	6.379646e-02	5.743058e-02	2.666775e-01	
35	num_authors_cat[T.9]	4.382665e-02	5.966418e-02	4.626375e-01	
36	num_authors_cat[T.>30]	4.471737e-03	6.450590e-02	9.447348e-01	
37	outlet_re[T.7th Space Family Portal]	-7.314486e-02	1.028863e-01	4.771545e-01	
38	outlet_re[T.ABC News]	3.046019e-01	2.877835e-01	2.898947e-01	
39	outlet_re[T.AJMC]	-8.163920e-02	1.136995e-01	4.727677e-01	
40	outlet_re[T.Action News Now]	-7.902238e-02	2.059369e-01	7.011979e-01	
41	outlet_re[T.Arstechnica]	-2.216913e-01	2.067283e-01	2.835904e-01	
42	outlet_re[T.Becker's Hospital Review]	-1.479676e-01	1.556804e-01	3.419163e-01	
43	outlet_re[T.Benzinga]	-2.235247e-01	1.125087e-01	4.699517e-02	*
44	outlet_re[T.Bio-Medicine.org]	-4.802014e-02	1.485274e-01	7.464725e-01	
45	outlet_re[T.Biospace]	5.209157e-02	1.548434e-01	7.365694e-01	
46	outlet_re[T.Business Insider]	-8.346022e-02	1.172547e-01	4.766236e-01	
47	outlet_re[T.Business Wire]	1.390192e-01	2.464933e-01	5.727825e-01	
48	outlet_re[T.Bustle]	-3.241497e-01	1.415584e-01	2.206187e-02	*
49	outlet_re[T.CBS News]	-1.613810e-01	1.541787e-01	2.952716e-01	
50	outlet_re[T.Christian Science Monitor]	-2.259828e-01	1.684575e-01	1.798119e-01	
51	outlet_re[T.Clinical Advisor]	-2.887507e-02	9.300493e-02	7.562152e-01	
52	outlet_re[T.Cornell Chronicle]	-2.067643e-01	1.498743e-01	1.677633e-01	
53	outlet_re[T.Counsel & Heal]	2.683303e-01	1.210705e-01	2.670550e-02	*
54	outlet_re[T.Doctors Lounge]	3.588042e-02	7.421485e-02	6.287810e-01	
55	outlet_re[T.Drug Discovery and Development]	1.056507e-02	1.546392e-01	9.455325e-01	
56	outlet_re[T.Drugs.com]	3.059068e-02	7.217873e-02	6.717126e-01	
57	outlet_re[T.ECN]	-1.527935e-01	2.164670e-01	4.803066e-01	
58	outlet_re[T.EarthSky]	-1.206184e-01	1.762651e-01	4.938100e-01	
59	outlet_re[T.Elite Daily]	-1.556170e-01	1.943854e-01	4.234171e-01	
60	outlet_re[T.Emaxhealth.com]	5.559788e-02	1.081245e-01	6.071285e-01	
61	outlet_re[T.Environmental News Network]	-3.303157e-02	1.327056e-01	8.034395e-01	
62	outlet_re[T.Everyday Health]	8.934230e-02	2.229055e-01	6.885750e-01	
63	outlet_re[T.Fight Aging!]	9.835234e-02	1.110734e-01	3.759359e-01	
64	outlet_re[T.Futurity]	-4.061382e-02	8.267862e-02	6.232842e-01	

65	outlet_re[T.GEN]	5.703374e-03	9.537530e-02	9.523174e-01	
66	outlet_re[T.Google News]	-4.522779e-01	2.486946e-01	6.901864e-02	
67	outlet_re[T.Green Car Congress]	6.236724e-02	1.123859e-01	5.789564e-01	
68	outlet_re[T.Guardian Liberty Voice]	2.809698e-01	1.495827e-01	6.037817e-02	
69	outlet_re[T.Headlines & Global News]	1.490881e-02	1.082392e-01	8.904507e-01	
70	outlet_re[T.Health Canal]	-4.314973e-02	7.433104e-02	5.615931e-01	
71	outlet_re[T.Health Day]	-1.541944e-01	1.402554e-01	2.716430e-01	
72	outlet_re[T.Health Medicinet]	-8.468564e-02	7.360682e-02	2.499760e-01	
73	outlet_re[T.Homeland Security News Wire]	-7.181731e-02	1.294845e-01	5.791603e-01	
74	outlet_re[T.HowStuffWorks]	-2.498181e-01	2.235940e-01	2.639153e-01	
75	outlet_re[T.Infection Control Today]	2.871228e-02	1.055070e-01	7.855262e-01	
76	outlet_re[T.Insurance News Net]	-6.180401e-02	2.486693e-01	8.037255e-01	
77	outlet_re[T.International Business Times]	-1.627059e-01	1.415930e-01	2.505540e-01	
78	outlet_re[T.Inverse]	-4.928470e-02	8.687417e-02	5.705228e-01	
79	outlet_re[T.KPBS]	-4.593463e-01	4.778852e-01	3.364851e-01	
80	outlet_re[T.LiveScience]	-1.306514e-01	1.359060e-01	3.364197e-01	
81	outlet_re[T.MIT News]	-7.107759e-02	1.575200e-01	6.518399e-01	
82	outlet_re[T.MSN]	5.947856e-02	1.104433e-01	5.902205e-01	
83	outlet_re[T.Medical Daily]	2.713372e-03	8.768741e-02	9.753154e-01	
84	outlet_re[T.Medicinenet]	-8.076063e-02	1.192707e-01	4.983543e-01	
85	outlet_re[T.MinnPost]	3.443965e-01	1.960939e-01	7.908836e-02	
86	outlet_re[T.Mongabay]	-6.811923e-02	1.873440e-01	7.161651e-01	
87	outlet_re[T.Mother Nature Network]	-2.763805e-01	1.673802e-01	9.874458e-02	
88	outlet_re[T.My Science]	3.483963e-01	1.451694e-01	1.642704e-02	*
89	outlet_re[T.Nanowerk]	8.096455e-03	1.058460e-01	9.390295e-01	
90	outlet_re[T.National Geographic]	-3.036850e-01	2.092475e-01	1.467406e-01	
91	outlet_re[T.Nature World News]	-3.571103e-03	9.292002e-02	9.693445e-01	
92	outlet_re[T.Newsweek]	-1.750058e-02	1.246192e-01	8.883228e-01	
93	outlet_re[T.Newswise]	-1.369415e-01	7.427771e-02	6.528206e-02	
94	outlet_re[T.Nutra Ingredients USA]	5.507245e-02	1.368482e-01	6.873779e-01	
95	outlet_re[T.OnMedica]	-3.932312e-01	1.924101e-01	4.102325e-02	*
96	outlet_re[T.Oncology Nurse Advisor]	-2.845357e-02	8.021973e-02	7.228296e-01	
97	outlet_re[T.Oregon Public Broadcasting]	-2.666921e-01	3.417858e-01	4.352495e-01	
98	outlet_re[T.PR Newswire]	-3.164633e-01	1.351765e-01	1.925733e-02	*
99	outlet_re[T.PR Web]	-1.157196e-01	1.834363e-01	5.281657e-01	
100	outlet_re[T.Pacific Standard]	-7.247648e-02	3.525606e-01	8.371321e-01	
101	outlet_re[T.Parent Herald]	-1.371882e-02	1.318641e-01	9.171429e-01	
102	outlet_re[T.Pediatric News]	-1.041879e-01	1.289190e-01	4.190258e-01	
103	outlet_re[T.Physician's Briefing]	5.903768e-02	7.128629e-02	4.076014e-01	
104	outlet_re[T.Physician's Weekly]	5.279796e-02	8.979990e-02	5.565861e-01	
105	outlet_re[T.Psych Central]	-7.079623e-02	8.881198e-02	4.253955e-01	
106	outlet_re[T.Psychology Today]	1.471616e-01	1.458590e-01	3.130466e-01	
107	outlet_re[T.Quartz]	-2.568594e-02	1.736216e-01	8.823932e-01	
108	outlet_re[T.Real Clear Science]	-1.033074e-01	2.967537e-01	7.277578e-01	
109	outlet_re[T.Renal & Urology News]	-2.863998e-01	1.486517e-01	5.406808e-02	
110	outlet_re[T.Runner's World]	1.692774e-01	1.487845e-01	2.552741e-01	
111	outlet_re[T.Salon]	-2.017878e-01	1.607046e-01	2.092913e-01	
112	outlet_re[T.Sci-News]	-8.138982e-02	1.000133e-01	4.157961e-01	
113	outlet_re[T.Science 2.0]	-1.136839e-02	8.991745e-02	8.993944e-01	
114	outlet_re[T.Science Alert]	-2.144484e-01	1.502139e-01	1.534506e-01	
115	outlet_re[T.Science Daily]	-4.366435e-02	7.140627e-02	5.408960e-01	
116	outlet_re[T.Science World Report]	-1.422420e-01	8.674987e-02	1.011216e-01	
117	outlet_re[T.Science/AAAS]	-5.761539e-02	2.084667e-01	7.822676e-01	
118	outlet_re[T.Scientific American]	-4.941122e-02	1.312369e-01	7.065549e-01	
119	outlet_re[T.Seed Daily]	-1.668183e-02	1.344291e-01	9.012449e-01	
120	outlet_re[T.SeedQuest]	-5.266943e-02	1.476495e-01	7.213138e-01	
121	outlet_re[T.Sign of the Times]	-3.243128e-01	2.089051e-01	1.206069e-01	
122	outlet_re[T.Sky Nightly]	-2.064380e-01	1.565965e-01	1.874577e-01	
123	outlet_re[T.Smithsonian Magazine]	-1.020489e-01	2.075115e-01	6.228957e-01	
124	outlet_re[T.Space Daily]	-3.221622e-02	1.663509e-01	8.464450e-01	
125	outlet_re[T.Space.com]	-2.475331e-01	2.977834e-01	4.058626e-01	
126	outlet_re[T.TIME Magazine]	-1.573875e-01	1.272313e-01	2.161261e-01	
127	outlet_re[T.Tech Times]	-2.266114e-01	9.318396e-02	1.504862e-02	*
128	outlet_re[T.Tech Xplore]	-1.922758e-01	1.704491e-01	2.593397e-01	
129	outlet_re[T.Technology Networks]	1.374658e-02	8.413666e-02	8.702213e-01	
130	outlet_re[T.Technology.org]	-4.991141e-02	7.621141e-02	5.125513e-01	
131	outlet_re[T.The ASCO Post]	1.168462e-02	9.385778e-02	9.009290e-01	

132	outlet_re[T.The Atlanta Journal Constitution]	2.579170e-01	2.061377e-01	2.109122e-01	
133	outlet_re[T.The Atlantic]	-8.017929e-02	2.251770e-01	7.217983e-01	
134	outlet_re[T.The Epoch Times]	-1.312479e-01	1.110176e-01	2.371604e-01	
135	outlet_re[T.The Inquisitr]	1.302168e-01	1.825987e-01	4.757910e-01	
136	outlet_re[T.The Raw Story]	-2.481762e-01	2.229263e-01	2.656367e-01	
137	outlet_re[T.The University Herald]	-6.434642e-01	1.599709e-01	5.828394e-05	***
138	outlet_re[T.UBM Medica]	-6.016875e-02	8.026344e-02	4.534990e-01	
139	outlet_re[T.UPI.com]	8.112067e-02	1.267747e-01	5.222736e-01	
140	outlet_re[T.USNews.com]	-9.798014e-02	9.177399e-02	2.857308e-01	
141	outlet_re[T.Vice]	-7.818448e-03	2.517404e-01	9.752246e-01	
142	outlet_re[T.Vox.com]	-3.341810e-01	1.929045e-01	8.325744e-02	
143	outlet_re[T.WebMD News]	-1.310441e-01	1.952281e-01	5.020949e-01	
144	outlet_re[T.Yahoo!]	-5.646596e-02	1.108680e-01	6.105541e-01	
145	outlet_re[T.Yahoo! Finance USA]	-7.182726e-02	1.125804e-01	5.234912e-01	
146	outlet_re[T.newsmax.com]	1.473574e-01	1.651354e-01	3.722431e-01	
147	outlet_re[T.outlet_ref]	-1.387991e-01	7.826739e-02	7.621130e-02	
148	outlet_re[T.redOrbit]	-1.253200e-01	1.020059e-01	2.192836e-01	
149	abs_level_of_uncertainty	5.699637e-01	1.522749e-02	3.852465e-277	***
150	abs_finding_len	-5.525056e-04	7.162267e-04	4.404918e-01	
151	abs_flesch_reading_ease	-4.160216e-04	2.800400e-04	1.374403e-01	
152	first_author_rank	-4.919522e-06	3.511413e-06	1.612604e-01	
153	affi_rank	6.934040e-06	3.471540e-06	4.582494e-02	*
154	Law	7.366396e-01	2.361478e-01	1.820350e-03	**
155	Condensed_matter_physics	8.138790e-01	4.870948e-01	9.479404e-02	
156	Biomedical_engineering	1.787057e-01	4.496644e-01	6.910711e-01	
157	Hydrology	4.387856e-01	3.984513e-01	2.708395e-01	
158	Atomic_physics	1.055620e+00	5.598327e-01	5.939484e-02	
159	Development_economics	9.766939e-01	6.344526e-01	1.237500e-01	
160	Optics	1.977795e-01	6.850613e-01	7.728179e-01	
161	Public_policy	1.715567e-01	4.336509e-01	6.924060e-01	
162	Lung_cancer	-1.895581e-01	1.011566e-01	6.098937e-02	
163	Electronic_engineering	7.334788e-01	1.202981e+00	5.420709e-01	
164	Artificial_intelligence	4.496298e-01	5.821348e-01	4.399177e-01	
165	Machine_learning	1.193459e+00	6.224831e-01	5.525050e-02	
166	Gender_studies	1.698486e-01	3.783571e-01	6.535113e-01	
167	Chemical_engineering	1.356124e-01	4.603929e-01	7.683412e-01	
168	Biophysics	-6.251133e-01	2.699860e-01	2.062540e-02	*
169	Analytical_chemistry	6.470635e-02	4.763130e-01	8.919455e-01	
170	Computer_science	5.993530e-01	3.165207e-01	5.832820e-02	
171	Radiology	3.306108e-01	1.257341e-01	8.573178e-03	**
172	Urology	5.536116e-01	1.734635e-01	1.422210e-03	**
173	Architecture	7.057613e-01	3.804322e-01	6.362037e-02	
174	Quantum_mechanics	-1.200196e+00	1.516187e+00	4.286306e-01	
175	Particle_physics	-1.005499e+00	1.297896e+00	4.385374e-01	
176	Materials_science	-1.936561e-02	2.358550e-01	9.345633e-01	
177	Computational_biology	1.604343e-01	6.447472e-01	8.034981e-01	
178	Agronomy	-1.691026e-01	2.998099e-01	5.727519e-01	
179	Environmental_resource_management	3.442745e-01	1.769106e-01	5.169456e-02	
180	Molecular_biology	3.329921e-01	1.140334e-01	3.511247e-03	**
181	Dermatology	2.053528e-01	1.618487e-01	2.045611e-01	
182	Engineering	-2.612870e-02	4.064867e-01	9.487498e-01	
183	Surgery	7.256831e-02	5.796134e-02	2.106117e-01	
184	Public_health	3.683271e-02	7.998789e-02	6.451886e-01	
185	Molecular_physics	-2.779245e+00	5.568305e-01	6.161629e-07	***
186	Bioinformatics	3.118113e-01	2.547929e-01	2.210796e-01	
187	Physics	6.081841e-01	2.931849e-01	3.808211e-02	*
188	Cognitive_psychology	1.008165e-01	1.476448e-01	4.947385e-01	
189	Oncology	2.514013e-01	1.018363e-01	1.358749e-02	*
190	Pathology	-9.373196e-02	1.049929e-01	3.720276e-01	
191	Biochemistry	1.774480e-01	1.429166e-01	2.144231e-01	
192	Social_science	-6.793392e-01	5.846966e-01	2.453337e-01	
193	Climatology	-2.748547e-02	1.599616e-01	8.635803e-01	
194	Pharmacology	-1.151915e-02	2.262672e-01	9.593992e-01	
195	Agriculture	-1.438755e-01	1.853908e-01	4.377391e-01	
196	Neuroscience	2.077526e-01	1.225342e-01	9.003621e-02	
197	Fishery	-6.280234e-02	2.614855e-01	8.102022e-01	
198	Virology	8.153155e-02	1.191987e-01	4.940021e-01	
199	Microbiology	2.829945e-01	1.755445e-01	1.069911e-01	
200	Communication	-5.512068e-02	1.818739e-01	7.618458e-01	

201	Endocrinology	-1.144640e-02	6.000891e-02	8.487315e-01	
202	Epigenetics	-3.201931e-01	1.739367e-01	6.568889e-02	
203	Marketing	-5.428802e-02	1.878822e-01	7.726313e-01	
204	Global_health	-8.158797e-01	2.747229e-01	2.990865e-03	**
205	Agroforestry	3.464929e-01	2.411601e-01	1.508313e-01	
206	Chemistry	-2.867175e-01	2.035011e-01	1.589068e-01	
207	Mathematics	-2.450289e-04	5.875854e-01	9.996673e-01	
208	Gynecology	5.374073e-02	1.003932e-01	5.924596e-01	
209	Gerontology	1.067810e-01	1.025651e-01	2.978669e-01	
210	Meteorology	1.868873e-01	3.175428e-01	5.561894e-01	
211	Veterinary_medicine	4.891855e-01	6.890164e-01	4.777448e-01	
212	Government	6.598691e-02	2.044891e-01	7.469395e-01	
213	Dentistry	4.435792e-01	3.849765e-01	2.492726e-01	
214	Microeconomics	-3.951653e-01	3.245074e-01	2.233687e-01	
215	Sociology	1.286958e-01	4.117888e-01	7.546491e-01	
216	Emergency_medicine	2.787570e-02	8.573117e-02	7.450765e-01	
217	Pediatrics	-1.003705e-01	6.917502e-02	1.468394e-01	
218	Advertising	3.186477e-01	1.918371e-01	9.675651e-02	
219	Oceanography	-6.560915e-02	2.819131e-01	8.159799e-01	
220	Developmental_psychology	1.195245e-01	1.034674e-01	2.480562e-01	
221	Internal_medicine	8.220328e-02	5.690524e-02	1.486298e-01	
222	Cardiology	5.524896e-02	8.955315e-02	5.372962e-01	
223	Environmental_engineering	-8.506562e-02	2.751861e-01	7.572402e-01	
224	General_surgery	3.474743e-03	1.107736e-01	9.749771e-01	
225	Environmental_science	-2.655664e-01	2.169341e-01	2.209299e-01	
226	Geophysics	-6.860677e-02	5.465873e-01	9.001171e-01	
227	Immunology	1.933034e-02	7.518751e-02	7.971137e-01	
228	Clinical_psychology	1.138828e-01	1.061013e-01	2.831598e-01	
229	Toxicology	8.617096e-01	3.482656e-01	1.337623e-02	*
230	Ecology	7.529510e-02	8.527012e-02	3.772598e-01	
231	Biology	9.222282e-02	1.596439e-01	5.635019e-01	
232	Epidemiology	8.594034e-02	8.753896e-02	3.262664e-01	
233	Physical_therapy	2.620408e-01	5.671623e-02	3.909564e-06	***
234	Physiology	-1.980659e-01	2.178464e-01	3.632795e-01	
235	Statistics	2.341798e-02	6.805480e-01	9.725509e-01	
236	Psychopathology	2.472524e-01	2.503421e-01	3.233580e-01	
237	Animal_science	3.515531e-02	3.951403e-01	9.291092e-01	
238	Nursing	2.257262e-01	1.022985e-01	2.738178e-02	*
239	Seismology	1.323521e-02	4.299924e-01	9.754459e-01	
240	History	1.381349e+00	1.326173e+00	2.976343e-01	
241	Psychiatry	1.751021e-02	7.313545e-02	8.107864e-01	
242	Zoology	3.438307e-01	1.880035e-01	6.746886e-02	
243	Psychology	-4.618279e-03	1.582133e-01	9.767138e-01	
244	Etiology	3.132386e-01	1.985362e-01	1.146753e-01	
245	Geomorphology	3.468530e-01	2.357002e-01	1.411825e-01	
246	Atmospheric_sciences	3.069264e-01	2.614331e-01	2.404332e-01	
247	Geography	2.762497e-01	2.213373e-01	2.120431e-01	
248	Demography	6.952602e-02	6.645468e-02	2.955008e-01	
249	Geology	-6.022320e-01	2.371066e-01	1.111151e-02	*
250	Medicine	9.558576e-02	1.369642e-01	4.852724e-01	
251	Family_medicine	-1.230967e-01	6.874645e-02	7.340696e-02	
252	Evolutionary_biology	-1.388986e-01	1.670676e-01	4.057836e-01	
253	Astrobiology	6.528570e-01	3.667338e-01	7.509240e-02	
254	Astronomy	1.452574e-01	2.820646e-01	6.065856e-01	
255	Astrophysics	-4.785610e-02	4.135766e-01	9.078839e-01	
256	Geochemistry	1.369776e-01	4.036109e-01	7.343346e-01	
257	Business	3.041133e-02	2.331766e-01	8.962368e-01	
258	Finance	1.940427e-02	2.396875e-01	9.354791e-01	
259	Management_science	-4.253369e-14	5.514719e-14	4.405723e-01	
260	Social_psychology	4.484812e-02	8.051094e-02	5.775172e-01	
261	Political_science	-2.722226e-01	3.667877e-01	4.580057e-01	
262	Archaeology	4.512896e-01	3.544401e-01	2.029775e-01	
263	Economics	1.880270e-01	1.833695e-01	3.052140e-01	
264	Paleontology	1.245241e-02	2.222471e-01	9.553200e-01	
265	Criminology	4.386701e-01	5.081198e-01	3.879942e-01	

Table 8: Regression coefficients for predicting sentence-level certainty in news with aspect-level certainty in abstracts (RQ3).

	IV	coeff	SE	p value	
0	(Intercept)	4.769169e+00	0.090361	0.000000e+00	***
1	finding_len	-8.585722e-03	0.000329	2.223725e-149	***
2	flesch_reading_ease	-1.233028e-03	0.000127	3.486418e-22	***
3	first_author_rank	6.810203e-06	0.000002	2.893930e-05	***
4	affi_rank	-1.955582e-07	0.000002	9.088450e-01	
5	affi_cateinternational	6.176708e-03	0.006035	3.061173e-01	
6	affi_cateunknown	7.980791e-02	0.066196	2.279631e-01	
7	journal_impact_cat>30	1.115552e-02	0.011485	3.314135e-01	
8	journal_impact_cat0	3.484480e-02	0.038634	3.671009e-01	
9	journal_impact_cat1	2.338580e-02	0.016713	1.617297e-01	
10	journal_impact_cat10	3.099042e-02	0.021125	1.423854e-01	
11	journal_impact_cat11-20	-1.325421e-02	0.011667	2.559562e-01	
12	journal_impact_cat2	-2.835769e-03	0.013643	8.353414e-01	
13	journal_impact_cat21-30	1.157902e-02	0.016218	4.752635e-01	
14	journal_impact_cat3	-2.153386e-02	0.013002	9.768855e-02	
15	journal_impact_cat4	-1.383440e-02	0.012566	2.709385e-01	
16	journal_impact_cat5	7.237343e-03	0.014383	6.148402e-01	
17	journal_impact_cat6	-1.279505e-03	0.017806	9.427163e-01	
18	journal_impact_cat7	-4.565138e-03	0.016952	7.876998e-01	
19	journal_impact_cat8	-1.158010e-02	0.019421	5.509985e-01	
20	num_authors_cat>30	-6.860334e-02	0.020412	7.774055e-04	***
21	num_authors_cat1	-5.658062e-02	0.020951	6.922228e-03	**
22	num_authors_cat10	-4.269129e-02	0.018650	2.207752e-02	*
23	num_authors_cat11-20	-3.377127e-02	0.014301	1.820837e-02	*
24	num_authors_cat2	-7.501011e-02	0.015725	1.845783e-06	***
25	num_authors_cat21-30	-2.494395e-02	0.018716	1.826133e-01	
26	num_authors_cat3	-4.136119e-02	0.015437	7.376600e-03	**
27	num_authors_cat4	-4.854558e-02	0.015367	1.582984e-03	**
28	num_authors_cat5	-5.129608e-02	0.015485	9.244715e-04	***
29	num_authors_cat6	-3.495075e-02	0.015828	2.723927e-02	*
30	num_authors_cat7	-4.805026e-02	0.016237	3.084075e-03	**
31	num_authors_cat8	-2.308659e-02	0.016820	1.698922e-01	
32	outlet_re12 News KBMT	1.418467e-01	0.167373	3.967259e-01	
33	outlet_re2 Minute Medicine	-4.312124e-02	0.087548	6.223354e-01	
34	outlet_re7th Space Family Portal	-4.599097e-02	0.091995	6.171269e-01	
35	outlet_reABC 7 WKBW Buffalo	-8.998381e-02	0.256673	7.259058e-01	
36	outlet_reABC Action News WFTS Tampa Bay	-2.982455e-01	0.244460	2.224629e-01	
37	outlet_reABC News	-6.698653e-02	0.093044	4.715628e-01	
38	outlet_reABC News 15 Arizona	1.766278e-01	0.270452	5.137049e-01	
39	outlet_reABC News WMUR 9	-3.542851e-01	0.129487	6.219294e-03	**
40	outlet_reAction News Now	-5.668414e-02	0.102343	5.796746e-01	
41	outlet_reAJMC	-1.393673e-01	0.095787	1.456802e-01	
42	outlet_reAlaska Despatch News	9.177018e-02	0.123984	4.591945e-01	
43	outlet_reAlternet	-1.114754e-01	0.094173	2.365219e-01	
44	outlet_reAmerican Council on Science and Health	-9.416221e-02	0.096104	3.271910e-01	
45	outlet_reAmerican Physical Society - Physics	-2.596486e-01	0.102138	1.101966e-02	*
46	outlet_reAOL	-7.593740e-02	0.429942	8.598053e-01	
47	outlet_reArizona Public Radio	-1.542826e-01	0.234993	5.114788e-01	
48	outlet_reArstechnica	-2.321924e-01	0.112495	3.901870e-02	*
49	outlet_reAstrobiology Magazine	-2.117611e-01	0.103951	4.164215e-02	*
50	outlet_reazfamily.com	-2.734613e-01	0.097476	5.026437e-03	**
51	outlet_reBecker's Hospital Review	1.236054e-02	0.105464	9.067007e-01	
52	outlet_reBecker's Spine Review	1.118130e-02	0.178829	9.501449e-01	
53	outlet_reBenzinga	-8.756726e-02	0.089176	3.261230e-01	
54	outlet_reBillings Gazette	-3.004539e-02	0.166643	8.569189e-01	
55	outlet_reBio-Medicine.org	-1.291493e-01	0.123512	2.957305e-01	
56	outlet_reBiospace	-8.649325e-02	0.087187	3.211818e-01	
57	outlet_reBioTech Gate	-2.053865e-01	0.118983	8.431746e-02	
58	outlet_reBoise State Public Radio	4.968309e-02	0.308591	8.720939e-01	
59	outlet_reBreitbart News Network	-7.084124e-02	0.217911	7.451118e-01	
60	outlet_reBrookings	-6.427207e-03	0.102487	9.499958e-01	
61	outlet_reBusiness Insider	-1.177954e-01	0.098250	2.305574e-01	
62	outlet_reBusiness Wire	3.400983e-01	0.256321	1.845636e-01	
63	outlet_reBustle	-1.959370e-01	0.096802	4.296269e-02	*
64	outlet_reBuzzfeed	-1.476767e-01	0.211114	4.842350e-01	
65	outlet_reCarbon Brief	-2.223582e-01	0.094952	1.919420e-02	*
66	outlet_reCardiovascular Business	-3.031564e-02	0.144638	8.339826e-01	

67	outlet_reCBS News	-1.057902e-01	0.091276	2.464531e-01	
68	outlet_reCentre for Disease Research and Policy	1.289307e-01	0.150621	3.920055e-01	
69	outlet_reChristian Science Monitor	-2.282957e-02	0.090961	8.018283e-01	
70	outlet_reClinical Advisor	-7.162084e-02	0.094883	4.503524e-01	
71	outlet_reCNBC	5.914617e-02	0.270347	8.268232e-01	
72	outlet_reCNET	4.275404e-02	0.189956	8.219228e-01	
73	outlet_reCNN News	-2.990173e-01	0.172478	8.298300e-02	
74	outlet_reCommon Dreams	-1.647337e-01	0.099371	9.736787e-02	
75	outlet_reCornell Chronicle	-8.121157e-02	0.117048	4.877897e-01	
76	outlet_reCounsel & Heal	-2.143805e-02	0.092798	8.173015e-01	
77	outlet_reDaily Kos	2.300905e-02	0.244820	9.251225e-01	
78	outlet_reDayton Daily News	8.135284e-02	0.127584	5.237081e-01	
79	outlet_reDiscover Magazine	1.773501e-02	0.178653	9.209237e-01	
80	outlet_reDoctors Lounge	-2.875162e-02	0.089025	7.467259e-01	
81	outlet_reDrug Discovery and Development	-1.270650e-01	0.134709	3.455532e-01	
82	outlet_reDrugs.com	4.794902e-03	0.085832	9.554506e-01	
83	outlet_reEarthSky	-1.043942e-01	0.088849	2.400150e-01	
84	outlet_reECN	-5.907096e-02	0.100715	5.575317e-01	
85	outlet_reElite Daily	-6.227301e-02	0.091942	4.982124e-01	
86	outlet_reEmaxhealth.com	1.496814e-02	0.093292	8.725321e-01	
87	outlet_reEnvironmental News Network	-1.580648e-01	0.091333	8.351947e-02	
88	outlet_reEquities.com	-4.579956e-02	0.106006	6.657094e-01	
89	outlet_reEurekAlert!	-6.943812e-02	0.085482	4.166176e-01	
90	outlet_reEveryday Health	-1.493808e-01	0.088384	9.100728e-02	
91	outlet_reFast Company	-1.643770e-01	0.101322	1.047374e-01	
92	outlet_reFight Aging!	-8.325870e-02	0.089406	3.517325e-01	
93	outlet_reFiveThirtyEight	-1.347739e-01	0.119805	2.606163e-01	
94	outlet_reFOX News	-2.000903e-01	0.159959	2.109811e-01	
95	outlet_reFuturity	-9.837692e-02	0.081818	2.292193e-01	
96	outlet_reGEN	-1.224438e-01	0.088232	1.652196e-01	
97	outlet_reGeorgia Public Radio	-1.360975e-01	0.139693	3.299296e-01	
98	outlet_reGoogle News	-1.390805e-01	0.092665	1.333882e-01	
99	outlet_reGovernment Executive	-1.144597e-01	0.112339	3.082658e-01	
100	outlet_reGreen Car Congress	5.236885e-02	0.105622	6.200273e-01	
101	outlet_reGuardian Liberty Voice	-4.884608e-02	0.087284	5.757369e-01	
102	outlet_reHarvard Business Review	-1.502870e-01	0.109402	1.695334e-01	
103	outlet_reHeadlines & Global News	6.714558e-03	0.084716	9.368267e-01	
104	outlet_reHealth	-4.375126e-02	0.110842	6.930523e-01	
105	outlet_reHealth Canal	-7.192425e-02	0.081390	3.768590e-01	
106	outlet_reHealth Day	-1.811595e-01	0.154427	2.407556e-01	
107	outlet_reHealth Imaging	-1.013049e-01	0.140246	4.700892e-01	
108	outlet_reHealth Medicinet	-1.197016e-01	0.081891	1.438250e-01	
109	outlet_reHealthline	5.041231e-04	0.118510	9.966059e-01	
110	outlet_rehellogiggles.com	-1.521049e-01	0.128123	2.351606e-01	
111	outlet_reHerald Sun	1.840454e-02	0.157959	9.072447e-01	
112	outlet_reHerald Tribune	-7.896818e-02	0.113124	4.851392e-01	
113	outlet_reHomeland Security News Wire	-2.311931e-01	0.095445	1.542642e-02	*
114	outlet_reHouston Chronicle	-1.264263e-01	0.111696	2.576873e-01	
115	outlet_reHowStuffWorks	-1.085633e-01	0.091457	2.352169e-01	
116	outlet_reHuffington Post	-1.753507e-01	0.096591	6.946858e-02	
117	outlet_reIdaho Statements	-1.367420e-01	0.205719	5.062429e-01	
118	outlet_reInc.	-2.885615e-02	0.092435	7.549076e-01	
119	outlet_reInfection Control Today	-4.932433e-02	0.096901	6.107402e-01	
120	outlet_reInside Science	-1.394995e-01	0.115661	2.277802e-01	
121	outlet_reInsurance News Net	-1.118142e-01	0.116388	3.367068e-01	
122	outlet_reInternational Business Times	-8.918184e-02	0.085132	2.948382e-01	
123	outlet_reInverse	-1.340195e-01	0.082395	1.038382e-01	
124	outlet_reIowa Public Radio	8.488846e-02	0.270454	7.536174e-01	
125	outlet_reJournalist's Resource	-1.261923e-01	0.096084	1.890678e-01	
126	outlet_reKansas City Star	1.827350e-01	0.431490	6.719338e-01	
127	outlet_reKansas City University Radio	1.907765e-02	0.190358	9.201699e-01	
128	outlet_reKansas Public Radio	-3.241566e-02	0.181981	8.586239e-01	
129	outlet_reKCENG12	-2.303815e-01	0.308981	4.559008e-01	
130	outlet_reKERA News	3.279992e-02	0.186044	8.600572e-01	
131	outlet_reKiiiTV 3	-3.457711e-01	0.138292	1.241090e-02	*
132	outlet_reKing 5	-7.172016e-02	0.140876	6.106830e-01	
133	outlet_reKOSU	-2.588662e-01	0.336716	4.420162e-01	
134	outlet_reKPBS	-7.959956e-02	0.135971	5.582689e-01	
135	outlet_reKPCC : Southern California Public Radio	-6.482439e-02	0.127915	6.123117e-01	
136	outlet_reKRWG TV/FM	-3.408372e-01	0.186725	6.795268e-02	

137	outlet_reKTEN	-9.834243e-02	0.143354	4.927093e-01	
138	outlet_reKUNC	-1.704335e-01	0.122598	1.644783e-01	
139	outlet_reKUOW	1.493518e-02	0.217831	9.453376e-01	
140	outlet_reLab Manager	-7.857505e-02	0.090292	3.841746e-01	
141	outlet_reLexington Herald Leader	-3.583428e-01	0.211151	8.968359e-02	
142	outlet_reLifehacker	-8.568183e-02	0.143355	5.500498e-01	
143	outlet_reLincoln Journal Star	-1.609512e-01	0.147410	9.130554e-01	
144	outlet_reLiveScience	-1.064932e-01	0.084400	2.070392e-01	
145	outlet_reMarketWatch	-9.276407e-03	0.103723	9.287367e-01	
146	outlet_reMedcity News	-8.197926e-02	0.108809	4.511961e-01	
147	outlet_reMedical Daily	-1.106447e-01	0.081733	1.758279e-01	
148	outlet_reMedicinenet	-9.953593e-02	0.087098	2.531216e-01	
149	outlet_reMedium US	-1.122500e-01	0.083424	1.784587e-01	
150	outlet_reMen's Health	1.242141e-01	0.159841	4.370972e-01	
151	outlet_reMic	-2.714787e-01	0.110274	1.382411e-02	*
152	outlet_reMinnPost	-1.199738e-01	0.096098	2.118700e-01	
153	outlet_reMinyanville: Finance	2.548422e-02	0.190078	8.933459e-01	
154	outlet_reMIT News	-9.046612e-03	0.095727	9.247091e-01	
155	outlet_reMIT Technology Review	-1.470581e-01	0.200698	4.637228e-01	
156	outlet_reMongabay	-1.568619e-01	0.086476	6.969115e-02	
157	outlet_reMother Jones	-3.759236e-01	0.186148	4.343985e-02	*
158	outlet_reMother Nature Network	-9.544112e-02	0.086099	2.676454e-01	
159	outlet_reMSN	-1.301312e-01	0.091907	1.568085e-01	
160	outlet_reMy Science	-3.489837e-02	0.117097	7.656812e-01	
161	outlet_reNanowerk	2.003345e-02	0.084120	8.117638e-01	
162	outlet_reNational Geographic	-4.082564e-02	0.107597	7.043701e-01	
163	outlet_reNature World News	-1.211760e-01	0.082059	1.397624e-01	
164	outlet_reNBC News	1.114485e-01	0.154169	4.697460e-01	
165	outlet_reNew Hampshire Public Radio	-1.321984e-01	0.257018	6.070054e-01	
166	outlet_reNew York Daily News	-5.149885e-02	0.103295	6.180894e-01	
167	outlet_reNew York Magazine	-1.704247e-03	0.143413	9.905186e-01	
168	outlet_reNew York Post	1.488574e-01	0.429672	7.290098e-01	
169	outlet_reNew York Times	-5.607231e-02	0.095775	5.582393e-01	
170	outlet_reNews Channel	8.213177e-02	0.144154	5.688500e-01	
171	outlet_reNewser	-5.894877e-02	0.091765	5.206239e-01	
172	outlet_renewsmax.com	-1.081776e-01	0.101941	2.886139e-01	
173	outlet_reNewsweek	-9.483019e-02	0.138609	4.938786e-01	
174	outlet_reNewswise	-9.817610e-02	0.081690	2.294406e-01	
175	outlet_reNorth East Public Radio	-1.937664e-01	0.139442	1.646596e-01	
176	outlet_reNorthwest Indiana Times	4.126759e-03	0.138152	9.761699e-01	
177	outlet_reNPR	-1.175292e-01	0.157668	4.560187e-01	
178	outlet_reNutra Ingredients USA	6.983471e-02	0.099478	4.826746e-01	
179	outlet_reOncology Nurse Advisor	-3.679552e-02	0.085922	6.684741e-01	
180	outlet_reOnMedica	4.962610e-02	0.164375	7.627233e-01	
181	outlet_reOregon Public Broadcasting	-4.380958e-01	0.199689	2.824662e-02	*
182	outlet_reOutside	-2.098173e-01	0.105426	4.657494e-02	*
183	outlet_rePacific Standard	-1.278349e-01	0.089554	1.534532e-01	
184	outlet_reParent Herald	-7.227167e-02	0.089470	4.192243e-01	
185	outlet_rePBS	-1.332501e-01	0.086110	1.217614e-01	
186	outlet_rePediatric News	-8.104710e-02	0.087781	3.558585e-01	
187	outlet_rePettinga: Stock Market	-1.557469e-01	0.428893	7.165035e-01	
188	outlet_rePharmacy Times	-1.179944e-01	0.118284	3.185005e-01	
189	outlet_rePhilly.com	-1.826453e-01	0.098743	6.435964e-02	
190	outlet_rePhysician's Briefing	-1.166461e-02	0.225665	9.587759e-01	
191	outlet_rePhysician's Weekly	-9.399661e-02	0.142341	5.090236e-01	
192	outlet_rePM 360	-1.123080e-01	0.144289	4.363622e-01	
193	outlet_rePolitico Magazine	-5.817698e-01	0.245738	1.791423e-02	*
194	outlet_rePopular Mechanics	-1.249849e-01	0.274259	6.485940e-01	
195	outlet_rePopular Science	-1.515766e+00	0.428817	4.083987e-04	***
196	outlet_rePR Newswire	-6.320346e-02	0.114111	5.796654e-01	
197	outlet_rePR Web	-1.307000e-01	0.109985	2.347001e-01	
198	outlet_rePressfrom	-9.822203e-02	0.091395	2.825115e-01	
199	outlet_rePrevention	-1.145023e-01	0.094920	2.277022e-01	
200	outlet_rePsych Central	-1.623597e-01	0.085102	5.641802e-02	
201	outlet_rePsychology Today	2.012517e-02	0.094449	8.312652e-01	
202	outlet_rePublic Radio International	-7.554060e-02	0.113615	5.061276e-01	
203	outlet_reQuartz	-1.553909e-01	0.097070	1.094238e-01	
204	outlet_reR&D	6.907842e-02	0.244635	7.776582e-01	
205	outlet_reRaleigh News and Observer	-1.484769e-01	0.176008	3.989065e-01	
206	outlet_reReal Clear Science	-1.057347e-01	0.090167	2.409384e-01	

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207	outlet_reReason	-7.172918e-02	0.100165	4.739262e-01	
208	outlet_reredOrbit	-1.194361e-01	0.085498	1.624348e-01	
209	outlet_reRelief Web	-7.076507e-02	0.139495	6.119504e-01	
210	outlet_reRenal & Urology News	-2.514014e-01	0.113343	2.655434e-02	*
211	outlet_reRocket News	1.615605e-01	0.308731	6.007641e-01	
212	outlet_reRunner's World	-1.504648e-01	0.092001	1.019534e-01	
213	outlet_reSalon	-1.265607e-01	0.107117	2.374001e-01	
214	outlet_reSci-News	-9.216745e-02	0.084148	2.733879e-01	
215	outlet_reScience 2.0	-8.690223e-02	0.084530	3.039221e-01	
216	outlet_reScience Alert	-1.393268e-01	0.083442	9.497571e-02	
217	outlet_reScience Daily	-3.342673e-02	0.081747	6.826104e-01	
218	outlet_reScience World Report	-1.711869e-01	0.082404	3.776807e-02	*
219	outlet_reScience/AAAS	-2.003872e-01	0.093369	3.186238e-02	*
220	outlet_reScientific American	-1.608189e-01	0.089883	7.358719e-02	
221	outlet_reSeed Daily	-1.718862e-01	0.094259	6.822495e-02	
222	outlet_reSeedQuest	-1.687705e-01	0.108636	1.202993e-01	
223	outlet_reSFGate	-7.066610e-02	0.144596	6.250465e-01	
224	outlet_reShe Knows	-4.378007e-02	0.092903	6.374667e-01	
225	outlet_reSign of the Times	-1.401738e-01	0.083003	9.126485e-02	
226	outlet_reSky Nightly	-1.358002e-01	0.091466	1.376273e-01	
227	outlet_reSlate Magazine	2.381837e-02	0.131770	8.565582e-01	
228	outlet_reSmithsonian Magazine	-9.156631e-02	0.105474	3.853221e-01	
229	outlet_reSpace Daily	-1.533121e-01	0.088813	8.431101e-02	
230	outlet_reSpace.com	-2.754762e-01	0.190987	1.491993e-01	
231	outlet_reSPIE Newsroom	-9.738364e-02	0.144411	5.000909e-01	
232	outlet_reSpringfield News Sun	6.652785e-02	0.244409	7.854701e-01	
233	outlet_reSt. Louis Post-Dispatch	-5.640932e-01	0.175363	1.297268e-03	**
234	outlet_reStar Tribune	1.211137e-02	0.103912	9.072137e-01	
235	outlet_reStatesman.com	-2.288543e-01	0.150263	1.277563e-01	
236	outlet_reTCTMD	2.104453e-01	0.144007	1.439233e-01	
237	outlet_reTech Times	-7.274466e-02	0.107746	4.995811e-01	
238	outlet_reTech Xplore	-2.132806e-01	0.114480	6.246071e-02	
239	outlet_reTechnology Networks	-3.707963e-02	0.082963	6.549190e-01	
240	outlet_reTechnology.org	-9.818053e-02	0.081028	2.256381e-01	
241	outlet_reThe Advocate	8.886938e-02	0.179171	6.198944e-01	
242	outlet_reThe ASCO Post	3.041240e-03	0.087142	9.721598e-01	
243	outlet_reThe Atlanta Journal Constitution	-1.607467e-01	0.135414	2.352011e-01	
244	outlet_reThe Atlantic	-6.557165e-02	0.096151	4.952612e-01	
245	outlet_reThe Body	-1.484161e-01	0.120679	2.187615e-01	
246	outlet_reThe Columbian	-2.789612e-01	0.094597	3.189796e-03	**
247	outlet_reThe Daily Beast	-2.640513e-01	0.099946	8.245276e-03	**
248	outlet_reThe Daily Caller	-1.083757e-01	0.116698	3.530541e-01	
249	outlet_reThe Daily Meal	6.904495e-02	0.131389	5.992364e-01	
250	outlet_reThe Denver Post	-1.554902e-01	0.186026	4.032421e-01	
251	outlet_reThe Deseret News	8.105423e-03	0.120665	9.464444e-01	
252	outlet_reThe Ecologist	-2.993036e-02	0.123181	8.080222e-01	
253	outlet_reThe Epoch Times	-9.873554e-02	0.083186	2.352625e-01	
254	outlet_reThe Hill	-8.941341e-02	0.092783	3.352104e-01	
255	outlet_reThe Inquisitr	-2.177188e-01	0.087619	1.296349e-02	*
256	outlet_reThe Modesto Bee	-6.710310e-01	0.212488	1.589348e-03	**
257	outlet_reThe New York Observer	-3.049783e-01	0.205597	1.379785e-01	
258	outlet_reThe Raw Story	-1.132624e-01	0.086479	1.902960e-01	
259	outlet_reThe Sacramento Bee	-1.678217e-01	0.170188	3.240898e-01	
260	outlet_reThe San Diego Union-Tribune	-8.874699e-02	0.104396	3.952714e-01	
261	outlet_reThe Seattle Times	-1.884026e-01	0.096942	5.196561e-02	
262	outlet_reThe University Herald	-1.324061e-01	0.094654	1.618625e-01	
263	outlet_reThe University of New Orleans Public ...	-1.840991e-01	0.140553	1.902609e-01	
264	outlet_reThe Verge	-1.801690e-01	0.104278	8.403321e-02	
265	outlet_reThe Week	-2.083448e-01	0.112975	6.516177e-02	
266	outlet_reTIME Magazine	-1.551461e-01	0.124589	2.130393e-01	
267	outlet_reTODAY	-2.206053e-01	0.181992	2.254511e-01	
268	outlet_reUBM Medica	-3.766528e-02	0.086759	6.641901e-01	
269	outlet_reUPI.com	-1.563671e-01	0.083897	6.235537e-02	
270	outlet_reUS News Health	-1.110524e-01	0.167373	5.070099e-01	
271	outlet_reUSA Today	-1.745214e-01	0.211178	4.085689e-01	
272	outlet_reUSNews.com	-1.272654e-01	0.100129	2.037259e-01	
273	outlet_reValue Walk	-1.194338e-01	0.126310	3.443758e-01	
274	outlet_reVice	-1.157334e-01	0.111034	2.972661e-01	
275	outlet_reVoice of America	1.188659e-02	0.130311	9.273203e-01	
276	outlet_reVox.com	-1.521713e-01	0.108516	1.608336e-01	

277	outlet_reWABE	-1.530104e-01	0.132771	2.491446e-01	
278	outlet_reWashington Post	-1.208006e-01	0.097351	2.146544e-01	
279	outlet_reWBUR	-1.522810e-01	0.097646	1.188768e-01	
280	outlet_reWCBE	4.569468e-01	0.733914	5.335389e-01	
281	outlet_reWebMD News	-1.413242e-01	0.095115	1.373320e-01	
282	outlet_reWinona Daily News	6.541215e-02	0.256676	7.988452e-01	
283	outlet_reWired.com	-2.650373e-01	0.190140	1.633507e-01	
284	outlet_reWitchita's Public Radio	4.372475e-01	0.430508	3.097973e-01	
285	outlet_reWJCT	-1.406031e-01	0.206107	4.951242e-01	
286	outlet_reWLRN	-2.919310e-02	0.178686	8.702223e-01	
287	outlet_reWomen's Health	-5.471109e-02	0.190042	7.734325e-01	
288	outlet_reWPTV 5 West Palm Beach	-1.809289e-01	0.124834	1.472420e-01	
289	outlet_reWTOP	-8.711230e-02	0.113108	4.412005e-01	
290	outlet_reWUNC	1.109425e-01	0.256964	6.659285e-01	
291	outlet_reWUWM	-4.187978e-01	0.287672	1.454482e-01	
292	outlet_reWVXU	-2.412514e-01	0.187498	1.982064e-01	
293	outlet_reWyoming Public Radio	-7.128794e-01	0.244629	3.567925e-03	**
294	outlet_reWYPR	-1.519889e-01	0.169573	3.700929e-01	
295	outlet_reYahoo!	-3.240712e-01	0.120671	7.242106e-03	**
296	outlet_reYahoo! Finance USA	-1.401263e-01	0.141206	3.210271e-01	
297	outlet_reYahoo! News	-7.839039e-02	0.090265	3.851550e-01	
298	Law	1.721709e-01	0.134234	1.996289e-01	
299	Condensed_matter_physics	1.163050e-01	0.085238	1.724250e-01	
300	Biomedical_engineering	2.005427e-01	0.180201	2.657617e-01	
301	Atomic_physics	2.404188e-01	0.149166	1.070207e-01	
302	Development_economics	1.831802e-01	0.158995	2.492776e-01	
303	Optics	1.445717e-02	0.117821	9.023411e-01	
304	Public_policy	-1.083858e-01	0.114745	3.448750e-01	
305	Lung_cancer	-3.712357e-02	0.074053	6.161517e-01	
306	Electronic_engineering	-2.097268e-01	0.231280	3.645117e-01	
307	Artificial_intelligence	8.744930e-02	0.238827	7.142457e-01	
308	Machine_learning	-6.166676e-02	0.176886	7.273718e-01	
309	Gender_studies	1.417851e-01	0.183644	4.400788e-01	
310	Biophysics	1.608861e-01	0.102834	1.177007e-01	
311	Analytical_chemistry	1.594539e-01	0.125640	2.043983e-01	
312	Computer_science	-5.391396e-02	0.107686	6.166139e-01	
313	Radiology	2.401873e-01	0.095808	1.217915e-02	*
314	Urology	2.880421e-01	0.137263	3.586734e-02	*
315	Architecture	1.435663e-01	0.114968	2.117613e-01	
316	Quantum_mechanics	-1.728541e-02	0.161338	9.146800e-01	
317	Particle_physics	-5.146881e-01	0.222524	2.072816e-02	*
318	Materials_science	-6.886770e-02	0.081632	3.988744e-01	
319	Computational_biology	-8.003381e-02	0.121947	5.116345e-01	
320	Agronomy	1.213806e-03	0.112305	9.913766e-01	
321	Environmental_resource_management	-2.784589e-01	0.074938	2.026766e-04	***
322	Molecular_biology	1.070506e-01	0.037830	4.659032e-03	**
323	Dermatology	-5.254046e-03	0.140825	9.702387e-01	
324	Engineering	-4.055292e-01	0.141090	4.050847e-03	**
325	Surgery	1.600701e-01	0.037936	2.452308e-05	***
326	Public_health	-7.008866e-02	0.043877	1.101838e-01	
327	Molecular_physics	2.343603e-01	0.149442	1.168315e-01	
328	Bioinformatics	-2.252473e-01	0.084063	7.374516e-03	**
329	Physics	-3.206476e-01	0.088412	2.872156e-04	***
330	Cognitive_psychology	1.675965e-02	0.053147	7.524988e-01	
331	Oncology	8.431974e-02	0.061431	1.698819e-01	
332	Pathology	-1.407800e-01	0.050008	4.876691e-03	**
333	Biochemistry	-6.209284e-02	0.046216	1.791067e-01	
334	Social_science	7.226562e-02	0.130312	5.791993e-01	
335	Climatology	-2.159606e-01	0.052833	4.362709e-05	***
336	Pharmacology	-1.293220e-01	0.068141	5.772042e-02	
337	Agriculture	-2.126438e-01	0.075827	5.043597e-03	**
338	Neuroscience	8.277387e-02	0.037780	2.845838e-02	*
339	Fishery	2.120101e-02	0.081538	7.948548e-01	
340	Virology	-6.290769e-02	0.050882	2.163372e-01	
341	Microbiology	-1.303452e-01	0.066750	5.085319e-02	
342	Communication	6.594518e-02	0.071462	3.561116e-01	
343	Endocrinology	-8.295582e-02	0.029428	4.819048e-03	**
344	Epigenetics	-2.038808e-01	0.066214	2.076831e-03	**
345	Marketing	6.484000e-03	0.096933	9.466685e-01	
346	Global_health	-2.102279e-01	0.122478	8.608321e-02	

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347	Agroforestry	-1.023366e-01	0.099613	3.042634e-01	
348	Chemistry	-1.706154e-01	0.075523	2.387944e-02	*
349	Mathematics	9.916813e-02	0.172493	5.653527e-01	
350	Gynecology	7.714846e-03	0.068467	9.102853e-01	
351	Gerontology	-1.548258e-02	0.051382	7.631704e-01	
352	Meteorology	-1.022310e-01	0.097902	2.963860e-01	
353	Veterinary_medicine	-2.187664e-02	0.181205	9.038112e-01	
354	Government	5.838730e-02	0.087349	5.038582e-01	
355	Microeconomics	2.251458e-02	0.110058	8.379090e-01	
356	Sociology	-3.587626e-02	0.102351	7.259481e-01	
357	Emergency_medicine	-2.638125e-02	0.073208	7.185775e-01	
358	Pediatrics	-5.868329e-02	0.047359	2.153019e-01	
359	Advertising	5.823807e-02	0.107186	5.869006e-01	
360	Oceanography	-2.346723e-01	0.073053	1.317122e-03	**
361	Developmental_psychology	1.602301e-02	0.041542	6.997169e-01	
362	Internal_medicine	-6.580158e-03	0.045423	8.848195e-01	
363	Cardiology	-5.137208e-02	0.054119	3.425002e-01	
364	Environmental_engineering	-3.475709e-01	0.103400	7.758290e-04	***
365	General_surgery	3.771307e-03	0.094628	9.682097e-01	
366	Environmental_science	-1.405490e-01	0.075904	6.407606e-02	
367	Geophysics	-3.276576e-01	0.085726	1.324129e-04	***
368	Immunology	-1.180278e-01	0.030886	1.327800e-04	***
369	Clinical_psychology	-5.710342e-03	0.051239	9.112639e-01	
370	Toxicology	-1.388905e-01	0.118715	2.420241e-01	
371	Ecology	-2.204166e-01	0.028954	2.716346e-14	***
372	Biology	3.126888e-02	0.063525	6.225579e-01	
373	Epidemiology	-6.900839e-02	0.049052	1.594790e-01	
374	Physical_therapy	-2.429769e-02	0.034015	4.750274e-01	
375	Physiology	-2.156699e-01	0.086821	1.299090e-02	*
376	Statistics	-2.583037e-01	0.201861	2.006857e-01	
377	Psychopathology	-1.340226e-01	0.113052	2.358237e-01	
378	Nursing	2.394885e-02	0.063192	7.046985e-01	
379	Seismology	-3.598085e-01	0.135588	7.963458e-03	**
380	History	8.397447e-02	0.193616	6.644952e-01	
381	Psychiatry	-8.875945e-02	0.038209	2.018135e-02	*
382	Zoology	-1.464639e-01	0.061093	1.651398e-02	*
383	Psychology	-4.680635e-02	0.066437	4.811117e-01	
384	Etiology	1.207033e-01	0.165057	4.646094e-01	
385	Geomorphology	-1.001681e-01	0.067753	1.392994e-01	
386	Atmospheric_sciences	-3.118873e-01	0.065910	2.227327e-06	***
387	Geography	3.375765e-03	0.081065	9.667838e-01	
388	Demography	-3.752818e-02	0.042629	3.786731e-01	
389	Geology	-9.362959e-02	0.073806	2.045930e-01	
390	Medicine	-1.534967e-02	0.059516	7.964786e-01	
391	Family_medicine	-6.142130e-02	0.049181	2.117098e-01	
392	Evolutionary_biology	-1.298161e-01	0.053081	1.446307e-02	*
393	Astrobiology	-4.705279e-01	0.079334	3.025629e-09	***
394	Astronomy	2.001468e-02	0.073932	7.866079e-01	
395	Astrophysics	-5.991756e-02	0.086935	4.906845e-01	
396	Geochemistry	-1.471454e-01	0.102864	1.525830e-01	
397	Business	-1.551947e-01	0.099747	1.197419e-01	
398	Finance	-1.264973e-01	0.125101	3.119430e-01	
399	Social_psychology	2.953284e-02	0.033976	3.847217e-01	
400	Political_science	-1.957042e-01	0.099545	4.930379e-02	*
401	Archaeology	-5.971080e-03	0.085627	9.444058e-01	
402	Economics	-2.804262e-02	0.074189	7.054386e-01	
403	Paleontology	-7.758444e-02	0.051442	1.315102e-01	
404	Criminology	-4.469132e-03	0.158899	9.775620e-01	

Table 9: Regression coefficients for predicting sentence-level certainty in news with team size and journal impact factors (RQ4,RQ5).

	IV	coeff	SE	p value	
0	(Intercept)	4.702461	1.967952e-02	0.000000e+00	***
1	finding_len	-0.005205	1.466497e-04	2.569752e-275	***
2	flesch_reading_ease	0.001294	5.116505e-05	6.128200e-141	***
3	first_author_rank	0.000005	7.462000e-07	1.993841e-10	***
4	affi_rank	0.000004	8.059055e-07	1.423131e-06	***
5	affi_cateinternational	0.002711	2.850670e-03	3.415584e-01	
6	affi_cateunknown	-0.059613	3.050521e-02	5.068047e-02	
7	journal_impact_cat>30	0.017183	6.753183e-03	1.094663e-02	*
8	journal_impact_cat0	0.070931	1.583193e-02	7.458490e-06	***
9	journal_impact_cat1	0.037022	7.467444e-03	7.132324e-07	***
10	journal_impact_cat10	-0.026817	1.123234e-02	1.696552e-02	*
11	journal_impact_cat11-20	0.011012	6.338012e-03	8.232125e-02	
12	journal_impact_cat2	0.011039	6.455363e-03	8.725644e-02	
13	journal_impact_cat21-30	0.038526	9.059239e-03	2.112806e-05	***
14	journal_impact_cat3	0.018069	6.341746e-03	4.383846e-03	**
15	journal_impact_cat4	0.004721	6.373307e-03	4.588848e-01	
16	journal_impact_cat5	0.018826	7.066775e-03	7.722863e-03	**
17	journal_impact_cat6	0.005337	7.986480e-03	5.039642e-01	
18	journal_impact_cat7	0.001111	8.614447e-03	8.973578e-01	
19	journal_impact_cat8	0.021862	9.556599e-03	2.215719e-02	*
20	num_authors_cat>30	0.014470	1.129322e-02	2.000785e-01	
21	num_authors_cat1	-0.148581	8.792205e-03	4.924378e-64	***
22	num_authors_cat10	0.017420	9.410994e-03	6.417202e-02	
23	num_authors_cat11-20	0.028837	7.205957e-03	6.285478e-05	***
24	num_authors_cat2	-0.105479	7.601852e-03	9.247603e-44	***
25	num_authors_cat21-30	0.038827	1.006697e-02	1.148614e-04	***
26	num_authors_cat3	-0.086735	7.493623e-03	5.649063e-31	***
27	num_authors_cat4	-0.056550	7.477742e-03	3.969260e-14	***
28	num_authors_cat5	-0.033781	7.570891e-03	8.125985e-06	***
29	num_authors_cat6	-0.020872	7.792431e-03	7.394795e-03	**
30	num_authors_cat7	-0.010136	8.040348e-03	2.074176e-01	
31	num_authors_cat8	-0.028621	8.454277e-03	7.109233e-04	***
32	Law	0.070084	5.388687e-02	1.934019e-01	
33	Condensed_matter_physics	-0.041109	3.862303e-02	2.871597e-01	
34	Biomedical_engineering	-0.115420	7.616218e-02	1.296587e-01	
35	Atomic_physics	-0.065105	6.382480e-02	3.077015e-01	
36	Development_economics	-0.047205	5.816054e-02	4.170027e-01	
37	Optics	0.019396	4.343975e-02	6.552398e-01	
38	Public_policy	-0.125913	5.683616e-02	2.673537e-02	*
39	Lung_cancer	-0.006981	3.413327e-02	8.379544e-01	
40	Electronic_engineering	0.014172	6.542282e-02	8.285036e-01	
41	Artificial_intelligence	-0.247202	1.133583e-01	2.920580e-02	*
42	Machine_learning	-0.055287	7.571961e-02	4.652959e-01	
43	Gender_studies	0.088098	7.363374e-02	2.315290e-01	
44	Biophysics	-0.095586	4.566339e-02	3.632583e-02	*
45	Analytical_chemistry	0.188117	4.607491e-02	4.449884e-05	***
46	Computer_science	-0.214977	5.003685e-02	1.736742e-05	***
47	Radiology	0.074570	3.824252e-02	5.118506e-02	
48	Urology	0.152922	5.692800e-02	7.226562e-03	**
49	Architecture	-0.001120	4.665485e-02	9.808520e-01	
50	Quantum_mechanics	-0.035286	6.571753e-02	5.913162e-01	
51	Particle_physics	0.087655	1.072413e-01	4.137200e-01	
52	Materials_science	-0.137963	3.801369e-02	2.842558e-04	***
53	Computational_biology	-0.208796	5.312750e-02	8.493616e-05	***
54	Agronomy	0.015144	5.126088e-02	7.676661e-01	
55	Environmental_resource_management	-0.314153	3.475149e-02	1.577128e-19	***
56	Molecular_biology	0.187494	1.882368e-02	2.289362e-23	***
57	Dermatology	0.049912	5.069291e-02	3.248259e-01	
58	Engineering	-0.335568	6.239112e-02	7.519028e-08	***
59	Surgery	0.277696	1.633176e-02	8.381155e-65	***
60	Public_health	-0.150272	2.069503e-02	3.846014e-13	***
61	Molecular_physics	-0.033632	7.221638e-02	6.414253e-01	
62	Bioinformatics	-0.211685	3.927797e-02	7.075208e-08	***
63	Physics	-0.215974	4.325506e-02	5.947209e-07	***
64	Cognitive_psychology	-0.018843	2.709459e-02	4.867830e-01	
65	Oncology	0.045282	2.996952e-02	1.308060e-01	
66	Pathology	0.054385	2.291640e-02	1.763593e-02	*

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67	Biochemistry	0.150523	1.937312e-02	7.897200e-15	***
68	Social_science	-0.077175	5.181339e-02	1.363622e-01	
69	Climatology	-0.105629	2.974517e-02	3.836280e-04	***
70	Pharmacology	-0.066023	3.419125e-02	5.348590e-02	
71	Agriculture	-0.124944	3.849407e-02	1.171319e-03	**
72	Neuroscience	-0.040433	2.052772e-02	4.887829e-02	*
73	Fishery	-0.018945	3.785747e-02	6.167764e-01	
74	Virology	0.044061	2.329545e-02	5.857037e-02	
75	Microbiology	0.062986	2.950870e-02	3.280375e-02	*
76	Communication	-0.049786	3.779225e-02	1.877201e-01	
77	Endocrinology	0.099994	1.383730e-02	4.973172e-13	***
78	Epigenetics	-0.045685	3.590429e-02	2.032255e-01	
79	Marketing	0.021009	4.681376e-02	6.535895e-01	
80	Global_health	-0.187153	5.960169e-02	1.689269e-03	**
81	Agroforestry	-0.084819	4.218669e-02	4.437289e-02	*
82	Chemistry	-0.052805	3.598906e-02	1.423112e-01	
83	Mathematics	-0.144235	7.229676e-02	4.603922e-02	*
84	Gynecology	0.057809	2.921346e-02	4.783538e-02	*
85	Gerontology	-0.017460	2.517976e-02	4.880496e-01	
86	Meteorology	-0.151979	5.489613e-02	5.632253e-03	**
87	Veterinary_medicine	0.133730	6.474758e-02	3.888556e-02	*
88	Government	-0.008927	3.318931e-02	7.879425e-01	
89	Microeconomics	-0.001723	4.848316e-02	9.716472e-01	
90	Sociology	-0.123963	4.444876e-02	5.289137e-03	**
91	Emergency_medicine	0.055253	3.008571e-02	6.628037e-02	
92	Pediatrics	0.043768	2.151070e-02	4.188308e-02	*
93	Advertising	-0.080519	4.985165e-02	1.062758e-01	
94	Oceanography	-0.093951	4.204117e-02	2.543589e-02	*
95	Developmental_psychology	-0.028208	2.048616e-02	1.685289e-01	
96	Internal_medicine	0.130101	1.963416e-02	3.449496e-11	***
97	Cardiology	0.149023	2.556410e-02	5.569803e-09	***
98	Environmental_engineering	-0.195223	4.856665e-02	5.828793e-05	***
99	General_surgery	0.098495	3.676245e-02	7.379414e-03	**
100	Environmental_science	-0.410593	4.504788e-02	7.950253e-20	***
101	Geophysics	-0.113802	3.527352e-02	1.254295e-03	**
102	Immunology	-0.034687	1.535150e-02	2.385222e-02	*
103	Clinical_psychology	0.001512	2.386325e-02	9.494757e-01	
104	Toxicology	0.003859	6.158601e-02	9.500313e-01	
105	Ecology	-0.318332	1.532214e-02	8.521177e-96	***
106	Biology	-0.243515	3.256232e-02	7.544197e-14	***
107	Epidemiology	-0.088103	2.346292e-02	1.733877e-04	***
108	Physical_therapy	0.055652	1.539083e-02	2.993417e-04	***
109	Physiology	-0.122551	4.986490e-02	1.398523e-02	*
110	Statistics	0.122982	6.827500e-02	7.166060e-02	
111	Psychopathology	-0.062601	5.205788e-02	2.291609e-01	
112	Nursing	-0.067656	2.636459e-02	1.028358e-02	*
113	Seismology	-0.239308	5.505282e-02	1.381345e-05	***
114	History	-0.196408	1.350999e-01	1.460043e-01	
115	Psychiatry	-0.053432	1.788472e-02	2.812340e-03	**
116	Zoology	0.028663	3.633594e-02	4.302032e-01	
117	Psychology	-0.155348	3.398603e-02	4.857360e-06	***
118	Etiology	-0.292206	6.218985e-02	2.620713e-06	***
119	Geomorphology	-0.054918	3.105129e-02	7.695808e-02	
120	Atmospheric_sciences	-0.139718	3.961923e-02	4.211423e-04	***
121	Geography	-0.345746	4.959965e-02	3.160046e-12	***
122	Demography	0.017103	2.072842e-02	4.093193e-01	
123	Geology	-0.296945	3.930839e-02	4.226897e-14	***
124	Medicine	-0.137230	2.962260e-02	3.612458e-06	***
125	Family_medicine	-0.117472	2.238108e-02	1.532959e-07	***
126	Evolutionary_biology	-0.242706	3.755519e-02	1.030608e-10	***
127	Astrobiology	-0.417982	5.736262e-02	3.186050e-13	***
128	Astronomy	-0.206327	4.292206e-02	1.532825e-06	***
129	Astrophysics	-0.142561	4.859643e-02	3.351218e-03	**
130	Geochemistry	-0.073973	4.427317e-02	9.475456e-02	
131	Business	-0.350525	5.697195e-02	7.633308e-10	***
132	Finance	-0.057185	5.510151e-02	2.993578e-01	
133	Social_psychology	0.016152	1.661061e-02	3.308430e-01	
134	Political_science	-0.262903	5.347179e-02	8.808093e-07	***
135	Archaeology	-0.131174	6.392884e-02	4.018239e-02	*
136	Economics	-0.227615	3.555490e-02	1.538332e-10	***

137	Paleontology	-0.011172	2.871630e-02	6.972423e-01	
138	Criminology	-0.170925	7.633794e-02	2.515320e-02	*

Table 10: Regression coefficients for predicting sentence-level certainty in abstract with team size and journal impact factors (RQ4,RQ5).