EMNLP 2022

The 2022 Conference on Empirical Methods in Natural Language Processing

Proceedings of the Conference

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Message from the General Chair

I am delighted to welcome you to EMNLP 2022! I believe this conference has been complicated beyond any precedent. Over the past year, it's been thrilling to see the organization team approach each new puzzle with creativity and enthusiasm. We hope that those participating in Abu Dhabi as well as those joining remotely will leave the conference feeling newly inspired by the program and newly connected to our ever-growing community. Following EMNLP 2021 and major NLP conferences since, EMNLP 2022 is "hybrid," serving both virtual and in-person participants.

Our key innovations for EMNLP 2022 include:

- EMNLP 2022 is "hybrid" in a second sense, as well: we allowed both direct and rolling review paper submissions, building on the pilot experiment of EMNLP 2021, which considered a small number of ARR submissions.
- Familiar from NAACL but new to EMNLP, we've added an industry track.
- During the conference, "portals" will link virtual poster sessions to in-person conference participants during poster sessions each day.
- The first *ACL-family conference in the United Arab Emirates.

My sincere thanks go to all the members of our organization team; here I list by name the leaders but recognize with gratitude that they represent a much larger population of volunteers who have made EMNLP 2022 possible.

- The program chairs — Yoav Goldberg, Zornitsa Kozareva, and Yue Zhang — who made the bold decision to take the training wheels off of rolling review, making their jobs much harder but taking an important step for the community.
- The senior area chairs, area chairs, and reviewers whose collective work improved not only the papers in the EMNLP 2022 proceedings and findings volumes, but also papers to appear in future venues.
- The diversity and inclusion chairs — Meriem Beloucif, Thamar Solorio and Andreas Vlachos — who were tireless advocates for the inclusive culture our conference aspires to.
- The demonstration chairs — Wanxiang Che and Ekaterina Shutova — who selected an exciting set of demos to enliven the program.
- The workshop chairs — Asli Celikyilmaz and Daniel Hershcovich — who shepherded a diverse collection of satellite events to complement the main conference.
- The tutorial chairs — Samhaa R. El-Beltagy and Xipeng Qiu — who curated an exciting set of tutorials for the benefit of attendees.
- The publications chairs — Ryan Cotterell, Steffen Eger, and Sam Wiseman — who not only ensured a legacy of high-quality artifacts for EMNLP 2022, but also continued to improve the tools and workflow to serve future meetings.
- The student volunteer chairs — Houda Bouamor (who is also thanked for her role on the local team and chairing WANLP), Hanan AlDarmaki, and Ashutosh Modi — who brought exceptional enthusiasm to recruiting and organizing the student volunteer team.
- The student volunteers themselves, who are critical to the success of our mostly volunteer-run conference.

- The virtual infrastructure chairs — Wassim El Hajj and Hao Fang — who worked to ensure that the virtual experience will be as smooth and engaging as possible.
- In a new position, the poster session chair — Jordan Boyd-Graber — has pushed us to improve the virtual experience and make it more unified with the in-person one.
- The industry track chairs — Angeliki Lazaridou and Yunyao Li — who brought EMNLP our first industry track and set the bar high for the future.
- The ethics chairs — Lea Frermann and Margot Mieskes — who oversaw the important task of ethical review.
- The publicity chairs — Eunsol Choi and Wajdi Zaghouani — and website chairs — Zhaochun Ren and Fajie Yuan — who kept our community abreast of important developments as our plans for the conference unfolded.
- The reviewer mentoring chairs — David Mimno and Yanyan Lan — who worked to help initiate newcomers to our peer review processes.
- The sponsorship chairs — Mingxuan Wang and Imed Zitouni — who worked alongside ACL's sponsorship director Chris Callison-Burch to ensure that the conference was in a strong fiscal position.
- Last but not least, the local team, led by Nizar Habash, whose tireless efforts would warrant a *1,001 Nights* literary treatment if not for confidentiality concerns, and who deserves the deepest gratitude of the community and a very long vacation. The local NLP community, both officially on the local committee and not, including Eric Xing, Tim Baldwin, Bashar Alhafni, Go Inoue, and many more, deserve our thanks as well.

I also want to express special thanks to Priscilla Rasmussen and Jenn Rachford of the ACL business office for their endless guidance and attention to detail on all aspects of organizing this huge event. In Abu Dhabi, Thembi Kuchena (ADNEC) and Zenab Mohamed (DCT) were instrumental from the initial bid and throughout the process. The Underline team, led by Damira Mršić, was immensely helpful in keeping us on schedule, and in many other ways.

Finally, thanks to our sponsors, without whom this conference would not be possible:

Supporting partner: Abu Dhabi Convention and Exhibition Bureau.

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Diversity and Inclusion Champions: Google, Microsoft and New York University Abu Dhabi. ACL SIGDAT has also contributed to supporting scholarships for attending the conference.

Noah A. Smith
University of Washington and Allen Institute for AI, Seattle, Washington, USA
EMNLP 2022 General Chair

Message from the Program Chairs

Welcome to EMNLP 2022, which is one of the most-attended conferences in the field of natural language processing, held in "hybrid" mode this year serving both virtual and in-person participants in Abu Dhabi!

Submission and Acceptance EMNLP 2022 received 4190 full paper submissions, the largest number to date. This number includes 275 ARR papers that were committed to EMNLP (see further discussion of ARR below). 225 papers were desk rejected for various reasons (missing limitation section, anonymity policy, multiple submission policy or formatting violations), leaving us with 3965 submissions that were fully reviewed. Despite the record-breaking number of submissions, based on the reviewers, area chairs and senior area chair comments, we kept the EMNLP 2022 acceptance rate similar to previous events, and accepted **829** papers to the main conference. Out of these, 175 are oral presentations and 654 poster presentations. Similarly to prior years, we also accepted 549 papers for "Findings of EMNLP". The EMNLP 2022 program also features 39 papers from the Transactions of the Association for Computational Linguistics (TACL) and Computational Linguistics (CL) journals. More statistics on the accepted papers can be found below.

	Long	Short	Total
Submitted (Including ARR commits)	3242	948	4190
Accepted as Oral	163	12	175
Accepted as Poster	552	102	654
Acceptance Rate (main conference)	22%	12%	20%
Accepted to Findings	453	96	549
Acceptance Rate (Findings)	14%	10%	13%
Presented TACL papers	–	–	27
Presented CL papers	–	–	12

Limitations Section One innovation of EMNLP 2022 is the requirement that each submitted paper must include an explicitly named Limitations section, discussing the limitations of the work. This discussion does not count towards the page limit, and we asked reviewers to not use the mentioned limitations as reasons to reject the paper, unless there is a really good reason to. The effect was overall positive: most papers included a limitations section, and many of them were informative. We hope to see this requirement continue in the future conferences.

Tracks To ensure a smooth process, the submissions to EMNLP 2022 were divided into 26 tracks. The tracks mostly followed these of previous EMNLP conferences, reflecting the "standard" divisions in the field. We did however make the following changes: the "Machine Translation and Multilinguality" track was split into two separate tracks ("Machine Translation" and "Multilinguality"); the "Syntax: Tagging, Chunking and Parsing" track was renamed to "Syntax, Parsing and their Applications"; and we added 4 additional tracks, reflecting upcoming trends in the research landscape: Commonsense Reasoning; Language Models and Analysis of Language Models; Efficient Methods for NLP; and Semi-supervised and Weakly-supervised Methods. Finally, we also solicited papers for a "Theme Track", discussing Open questions, major obstacles, and unresolved issues in NLP. Of the 26 tracks, the Resources and Evaluation, NLP Applications, Machine Learning for NLP, Dialogue and Interactive Systems, Language Modeling and Analysis of Language Models, Speech, Vision, Robotics, Multimodal Grounding and Information Extraction tracks were the most popular with over 200 submissions per track.

Program committee structure & reviewing Similar to prior NLP conferences, we adopted the hierarchical program committee structure, where for each area we invited between 1 to 5 Senior Area Chairs

(SACs), who worked with a team of Area Chairs (ACs), and an army of reviewers. We relied on statistics from prior years to estimate how many SACs, ACs and reviewers will be needed and ended up with 70 SACs and 297 ACs. For the reviewers, we used the reviewer lists from prior EMNLP conferences, solicited volunteer reviewers, and also invited all EMNLP 2022 authors to serve as reviewers. To this end, we attempted to recruit the most competent and matching reviewers by making a Google Form in reviewer recruitment, which was publicized through different channels and is linked to the author information page for all the submission authors to fill. We then provided the resulting information to the program committee for making reviewer assignments. This resulted in a reviewer pool of 4647 reviewers, of which 3828 reviewers were assigned at least one paper to review. For each submission, we assigned three reviewers and an AC. The initial paper assignment was made using an automatic algorithm that matches the abstracts with ACs/reviewers' past publication records, then the assignments were further refined by the SACs/PCs. We tried to avoid the Toronto matching score which had its limitations. In the end, most reviewers were assigned less than 6 papers, with a few reviewers working on 10 assignments and a large number of reviewers working on 1 assignment only. In the Google Form, we also asked whether the reviewer will volunteer for emergency review, which turned out to be very useful. We adapted the review forms from NAACL 2022, and ACL 2022 and EMNLP 2021. Besides the overall recommendation, reviewers were asked to evaluate how reproducible the results in the paper were, and whether there was any ethical concern. To ensure the review quality, we provided detailed guidelines about what reviewers should and shouldn't do in a review. We made final decisions according to the rankings and SAC recommendations. Our final decisions were made not just on the review scores, but also took into account the reviews, author responses, discussions among reviewers, meta-reviews and SAC/AC recommendations.

Ethics committee We also formed an Ethics Committee (EC) dedicated to ethical issues. After the technical reviews, but before the author-response and discussion phases, the ethics committee considered 150 papers that were flagged by the technical reviewing committee for ethical concerns. The two EC chairs went over the papers, to determine whether a full EC review would be required. As a result, 22 papers received two dedicated ethics reviews from a committee of 41 reviewers recruited by the EC chairs. An additional 22 papers raised one or more recurring issues (e.g., no information on annotator payment), which did not require a full ethics review, but were raised to the authors by the EC chairs. For any paper that was recommended to be accepted based on technical reviews and that had been referred to the EC, the EC chairs recommended one of the following to the PC chairs: (a) accept with comments (authors should take concerns raised in the ethical review into account in the camera-ready version; 29 papers); (b) conditionally accept (the ethical issues must be addressed in the camera-ready version, to be verified by the EC prior to final acceptance; 15 papers); and (c) reject due to ethical issues (0 papers). The authors of all conditionally accepted papers submitted the camera-ready version and a short response that explained how they had made the changes requested by the EC meta-reviews. The EC chairs double-checked these revised submissions and responses, and confirmed that the ethical concerns had been addressed. As a result, all conditionally accepted papers were accepted to the main conference or Findings. The EC chairs thank their committee for the excellent work.

ACL Rolling Review ACL Rolling Review (ARR) is an initiative of the Association for Computational Linguistics, where the reviewing and acceptance of papers to publication venues are done in a two-step process: (1) centralized rolling review and (2) the ability to commit the reviewed papers to be considered for publication by a publication venue. For EMNLP 2022, we decided to run a process which is separate from ARR, but allows for ARR submissions. Specifically, authors could either submit papers to EMNLP 2022 directly, or commit ARR reviewed papers by a certain date. We coordinated with the ARR team to extract the submission, review and meta-review from the OpenReview system, according to a submission link that the author provides when committing their ARR submission to EMNLP. The ARR commission deadline was set one month after the direct submission deadline since the ARR submissions already have their reviews and meta-recommendation. These ARR papers were then ranked by the SACs of the given tracks, together with the direct submissions in the track, and based on the reviews and meta-reviews

from ARR. Overall, EMNLP had 275 papers committed from ARR, of these 97 were accepted to the main conference and 73 were accepted to Findings of EMNLP.

Best paper selection Based on the nominations from SACs and ACs, we identified 11 candidates for the best papers and outstanding papers award. These papers are assessed by the Best Paper Award Committee. The award winners will be announced and present their works at the closing ceremony.

Presentation Mode We attempted the decision for oral vs poster presentations not to be made based on the quality/merit of the papers, but rather on the authors' interest in the presentation mode, and our understanding of what would be the best format for presentation of each individual paper.

Keynote talks Another highlight of our program is the three exciting keynote talks, presented by prof. Gary Marcus, NYU (Emeritus) on "Towards a Foundation for AGI"; prof. Neil Cohn, Tilburg University, Department of Communication and Cognition on "The multimodal language faculty and the visual languages of comics" & Dr. Mona Diab from Meta Responsible AI on "Towards a Responsible NLP: Walking the walk".

Gratitude We would like to thank the following people for their support & contributions:

- Our General Chair, Noah Smith, who led the whole organizing team, and helped with many of the decision processes;
- 70 SACs who helped us throughout the entire review process, from assigning papers, checking review quality, making final recommendation, suggesting presentation formats to recommending best paper candidates;
- 297 ACs who checked the initial submissions, led paper discussions, wrote meta reviews, ensured review quality and suggested best paper candidates;
- 3828 reviewers who reviewed the papers and actively participated in paper discussions; special thanks to those who stepped in at the last minute to serve as emergency reviewers;
- Reviewing Mentoring Chairs, David Mimno and Yanyan Lan and the team of mentors they recruited, for mentoring new reviewers.
- 36 Ethics Committee members, chaired by Lea Frermann and Margot Mieskes, for their hard work to provide ethical reviews and meta-reviews for all papers with serious ethical issues, and ensure that all the conditionally accepted papers have addressed the ethical issues appropriately;
- Best Paper Award Committee: Claire Cardie, Ellen Riloff, Hal Daume III, Rada Mihalcea, Raymond Mooney and Preslav Nakov for selecting the best papers;
- Jordan Boyd-Graber, the Virtual Posters chair, for organizing and managing the virtual poster sessions.
- Publication Chairs Ryan Cotterell, Steffen Eger and Sam Wiseman for completing the final proceedings within a short period;
- ACL Anthology Director Matt Post and his team, for his help in the production of the conference proceedings and maintenance of the ACL Anthology;
- TACL editor-in-chief Brian Roark and TACL Editorial Assistant Cindy Robinson, and CL Editor-in-Chief Hwee Tou Ng for coordinating TACL and CL presentations with us;

- The ARR team for their continued effort in running ARR, and for coordination with us. Particular thanks to Harold Rubio and Goran Glavas for multiple rounds of technical help in extracting data from the ARR OpenReview system.
- Rich Gerber at SoftConf, for setting up EMNLP 2022 conference site and quickly responding to our emails and resolving any issues we encountered with the START system;
- Website chairs Fajie Yuan and Zhaochun Ren and their team for continued effort in prompt updates to the website.
- Publicity chairs Eunsol Choi and Wajdi Zaghouani for publicizing the conference and handling communications on social media.
- Sol Rosenberg, Damira Mršić and the whole Underline team, for helping to manage the logistics of both the virtual and online conference.
- Jenn Rachford and Priscilla Rasmussen for their professional and very valuable help in organizing the logistics of the conference.
- Nizar Habash and the rest of the Local Organizing Committee, for various discussions on organizing EMNLP, and making the local arrangements.
- 11854 authors for submitting their work to EMNLP 2022.

We hope that you will enjoy this year's program and hybrid conference!

Yoav Goldberg, Bar Ilan University and Allen Institute for AI
Zornitsa Kozareva, SliceX AI
Yue Zhang, Westlake University
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SAC Dialogue and Interactive Systems

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Jason Williams, Apple

SAC Discourse and Pragmatics

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SAC Efficient Methods for NLP

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SAC Natural Language Generation

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SAC Information Extraction

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SAC Information Retrieval and Text Mining

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SAC Interpretability, Interactivity and Analysis of Models for NLP

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SAC Linguistic Theories, Cognitive Modeling and Psycholinguistics

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SAC Machine Learning for NLP

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SAC Question Answering

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SAC Resources and Evaluation

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Linfeng Song, Tencent AI Lab
Miguel Ballesteros, AWS AI Labs
Yi Zhang, AWS AI Labs
Jackie Chi Kit Cheung, Mila / McGill University
Bernd Bohnet, Google Research

SAC Sentiment Analysis, Stylistic Analysis, and Argument Mining

Eric Cambria, Nanyang Technological University
Meishan Zhang, Harbin Institute of Technology (Shenzhen), China

SAC Speech, Vision, Robotics, Multimodal Grounding

Jesse Thomason, USC
Yonatan Bisk, CMU
Reut Tsarfaty, Bar-Ilan University

SAC Summarization

Xiaojun Wan, Peking University
Horacio Saggion, Universitat Pompeu Fabra
Lu Wang, University of Michigan
Fei Liu, University of Central Florida

SAC Syntax, Parsing and their Applications

Slav Petrov, Google
Xavier Carreras, dMetrics

SAC Commonsense Reasoning

German Rigau, University of the Basque Country
Xiang Ren, University of Southern California

SAC Language Modeling and Analysis of Language Models

Luke Zettlemoyer, University of Washington and Meta
Colin Raffel, UNC Chapel Hill and Hugging Face
Kenthon Lee, Google Research

SAC Unsupervised and Weakly-Supervised Methods in NLP

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Mihai Surdeanu, University of Arizona

SAC Theme Track

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Theme Track

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Francis Tyers, Indiana University
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Unsupervised and Weakly-Supervised Methods in NLP

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Zhouhan Lin, Shanghai Jiao Tong University
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Karin Verspoor, RMIT University
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Hao Fei, National University of Singapore
Guohong Fu, Soochow University
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Yang Li, Northwestern Polytechnical University
Rui Mao, Nanyang Technological University
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Shuai Wang, Amazon AI
Rui Xia, Nanjing University of Science and Technology
Ruifeng Xu, Harbin Institute of Technology, Shenzhen
Linyi Yang, Westlake University
Yanyan Zhao, Harbin Institute of Technology

Multilinguality

Antonios Anastasopoulos, George Mason University
Kalika Bali, Microsoft Research Labs
Vishrav Chaudhary, Microsoft
Colin Cherry, Google
Marta R. Costa-jussà, Meta AI
Josep Crego, SYSTRAN
Angela Fan, Facebook AI Research
Orhan Firat, Google AI
Junjie Hu, University of Wisconsin-Madison
Preethi Jyothi, Indian Institute of Technology Bombay
Shruti Rijhwani, Carnegie Mellon University
Rico Sennrich, University of Zurich

Interpretability, Interactivity and Analysis of Models for NLP

Leila Arras, Fraunhofer Heinrich Hertz Institute
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Takashi Wada, Joachim Wagner, Sabine Schulte im Walde, Eric Wallace, Stephen Wan, Yu Wan, Baoxin Wang, Bingqing Wang, Chao Wang, Chenguang Wang, Cunxiang Wang, Fei Wang, Guoyin Wang, Hai Wang, Hanrui Wang, Haoyu Wang, Heyuan Wang, Hongfei Wang, Jiangyuan Wang, Jingang Wang, Liang Wang, Liwen Wang, Lu Wang, Lucy Lu Wang, Qingyun Wang, Quan Wang, Rui Wang, Shi Wang, Shuohang Wang, Sinong Wang, Tong Wang, Wei Wang, Wen Wang, Wenbo Wang, Xiaojie Wang, Xin Wang, Xing Wang, Xinyi Wang, Xuezhi Wang, Yingyao Wang, Yue Wang, Yufei Wang, Zhenyi Wang, Zijian Wang, Zirui Wang, Leon Weber, Noah Weber, Albert Webson, Penghui Wei, Xiangpeng Wei, Nathaniel Weir, Ralph M. Weischedel, Charles Welch, Sarah Wiegreffe, Rodrigo Wilkens, Steven R Wilson, Guillaume Wisniewski, Bobby Wu, Chuhan Wu, Dayong Wu, Felix Wu, Jian Wu, Junshuang Wu, Qingyang Wu, Shuangzhi Wu, Stephen T. Wu, Wenhao Wu, Yiquan Wu, Yunfang Wu, Yuting Wu, Yuxiang Wu, Zhengxuan Wu, Zhonghai Wu, Joern Wuebker

Ai Xi, Yandi Xia, Yanghua Xiao, Jun Xie, Benfeng Xu, Boyan Xu, Chang Xu, Chen Xu, Jingjing Xu, Lin Xu, Peng Xu, Qiongkai Xu, Yige Xu, Yumo Xu, Zhen Xu

Yadollah Yaghoobzadeh, Ikuya Yamada, Ivan P. Yamshchikov, Lingyong Yan, Yuanmeng Yan, Baosong Yang, Changbing Yang, Fan Yang, Haiqin Yang, Jie Yang, Jingfeng Yang, Jun Yang, Linyi Yang, Ruosong Yang, Sen Yang, Songlin Yang, Tsung-Yen Yang, Wenmian Yang, Yinfei Yang, Yujiu Yang, Ziqing Yang, Shunyu Yao, Wenlin Yao, Mark Yatskar, Qinyuan Ye, Xi Ye, Da Yin, Haiyan Yin, Kayo Yin, Qingyu Yin, Xuwang Yin, Yichun Yin, Wang Yong, Zheng Xin Yong, Jin Yong Yoo, Kang Min Yoo, Masaharu Yoshioka, Steve Young, Bei Yu, Changlong Yu, Dian Yu, Heng Yu, Jifan Yu, Sicheny Yu, Xiaodong Yu, Yue Yu, Caixia Yuan, David Yuan, Jianhua Yuan, Hyokun Yun

Hamada Zahera, Albin Zehe, Qi Zeng, Zhiyuan Zeng, Torsten Zesch, Deniz Zeyrek, Hanwen Zha, Fangzhou Zhai, Haolan Zhan, Li-Ming Zhan, Boliang Zhang, Bowen Zhang, Chen Zhang, Dongdong Zhang, Dongxu Zhang, Hainan Zhang, Hanlei Zhang, Haoyu Zhang, Jianguo Zhang, Jingqing Zhang, Lei Zhang, Li Zhang, Licheng Zhang, Liwen Zhang, Longyin Zhang, Meng Zhang, Mike Zhang, Min Zhang, Mozhi Zhang, Ningyu Zhang, Richong Zhang, Shiyue Zhang, Songyang Zhang, Tianyun Zhang, Tongtao Zhang, Xiaotong Zhang, Xinsong Zhang, Yao Zhang, Yuanzhe Zhang, Yunyi Zhang, Zhengyan Zhang, Zhirui Zhang, Zhong Zhang, Fei Zhao, Sanqiang Zhao, Wei Zhao, Yanpeng Zhao, Bo Zheng, Xiaoqing Zheng, Jie Zhou, Jingbo Zhou, Qingyu Zhou, Shuigeng Zhou, Shuyan Zhou, Wangchunshu Zhou, Wenxuan Zhou, Xiang Zhou, Xuhui

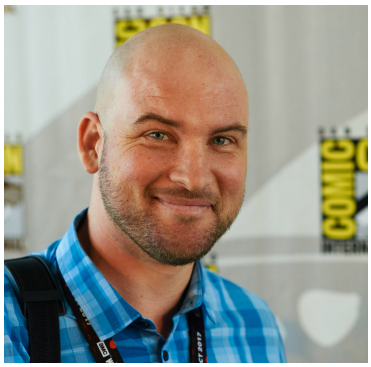
Zhou, Yichao Zhou, Yucheng Zhou, Zhixuan Zhou, Henghui Zhu, Jian Zhu, Jun Zhu, Kenny Q. Zhu, Ligeng Zhu, Qi Zhu, Xiaofeng Zhu, Yilun Zhu, Yutao Zhu, Zining Zhu, Yftah Ziser, Shi Zong

Keynote Talk

The Multimodal Language Faculty and the Visual Languages of Comics

Neil Cohn
Tilburg University, Department of Communication and Cognition
2022-12-09 09:00:00 – Room: **Hall B**

Abstract:



Friday, December 9, 2022 - Room: **Hall B** - Time: **9:00-10:30**

Abstract: Contrary to the notions of language as an amodal system, natural human communication is multimodal and combines speech, gestures, writing, and pictures. To account for this, recent work has proposed that our vocal, bodily, and graphic modalities persist in parallel in a multimodal language faculty, and both unimodal and multimodal expressions arise out of emergent states of a shared architecture. Such a model carries different expectations for the ways in which modalities may be similar or different from each other, and how they may interact. I will highlight these properties specifically for our graphic modality, which I argue can manifest in full visual languages when displaying both a systematic lexicon and complex grammar. I will use analysis of a corpus of several hundred annotated comics to show distinctive patterns that suggest they are drawn in different visual languages. Yet, I will also show that consistent "universal" linguistic principles persist across this structural diversity. Finally, I will argue that a multimodal language faculty requires us to change our conception of linguistic relativity, and I will show how subtle structures of spoken languages permeate across to visual languages. Altogether, this work argues for a multimodal basis of linguistic structure, and heralds a reconsideration of what constitutes the language system.
Bio: Neil Cohn is an American cognitive scientist best known for his research on the overlap in structure and cognition between language and graphic communication like comics and emoji. He is the author of 80+ academic papers, 4 academic books, and 2 graphic novels. He received his PhD in cognitive psychology at Tufts University and is currently an associate professor at the Department of Cognition and Communication at Tilburg University in The Netherlands. His work can be found online at https://www.visuallanguagelab.com/.

Keynote Talk

Takeaways from a Systematic Study of 75K Models on Hugging Face

Nazneen Rajani
HuggingFace
2022-12-09 17:30:00 – Room: **Hall B**

Abstract:

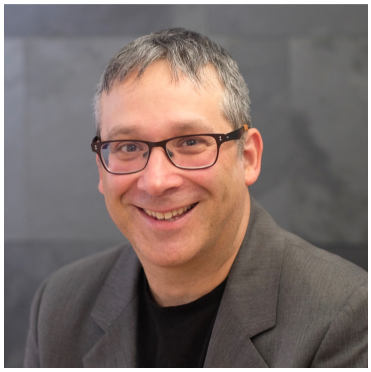
Friday, December 9, 2022 - Room: **Hall B** - Time: **17:30-18:30**
Abstract: Language models trained using transformers dominate the NLP model landscape, making Hugging Face (HF) the defacto hub for sharing, benchmarking, and evaluating NLP models. The HF hub provides a rich resource for understanding how language models evolved, opening up research questions such as 'Is there a correlation between model documentation and its usage?', 'How have the models evolved?', 'What do users document about their models?'. In the first part of my talk, I'll give a macro-level view of how the NLP model landscape has evolved based on our systematic study of 75K HF models. In the second part, I'll discuss advances, challenges and opportunities in evaluating and documenting NLP models developed in an industry setting. Based on the results, do we see a paradigm shift from model-centric to data-centric evaluation and documentation?
Bio: Nazneen is a Research Lead at Hugging Face, a startup with a mission to democratize ML, leading data-centric ML research which involves systematically analyzing, curating, and automatically annotating data. Before HF, she worked at Salesforce Research with Richard Socher and led a team of researchers focused on building robust natural language generation systems based on LLMs. She completed her Ph.D. in CS at UT-Austin with Prof. Ray Mooney. Nazneen has over 30 papers accepted at ACL, EMNLP, NAACL, NeurIPs, and ICLR and has her research covered by Quanta magazine, VentureBeat, SiliconAngle, ZDNet, and Datanami. She is also teaching a course on interpreting ML models with Corise – http://corise.com/go/nazneen. More details about her work can be found here https://www.nazneenrajani.com/.

Keynote Talk

Towards a Foundation for AGI

Gary Marcus
NYU (Emeritus)
2022-12-10 14:00:00 – Room: **Hall B**

Abstract:



Saturday, December 10, 2022 - Room: **Hall B** - Time: **14:00-15:00**

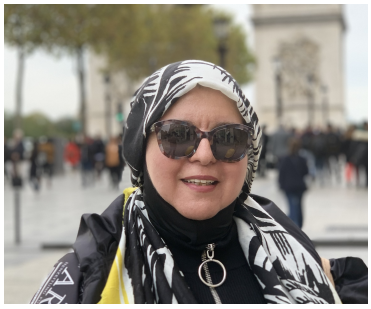
Abstract: Large pretrained language models like GPT-3 and PaLM have generated enormous enthusiasm, and are capable of producing remarkably fluent language. But they have also been criticized on many grounds, and described as "stochastic parrots." Are they adequate as a basis for artificial general intelligence (AGI), and if not, what would a better foundation for general intelligence look like?
Bio: Gary Marcus is a leading voice in artificial intelligence. He is a scientist, best-selling author, and serial entrepreneur (Founder of Robust.AI and Geometric.AI, acquired by Uber). He is well-known for his challenges to contemporary AI, anticipating many of the current problems decades in advance, and for his research in human language development and cognitive neuroscience. An Emeritus Professor of Psychology and Neural Science at NYU, he is the author of five books, including, *The Algebraic Mind*, *Kluge*, *The Birth of the Mind*, and the *New York Times* Bestseller *Guitar Zero*. He has often contributed to *The New Yorker*, *Wired*, and *The New York Times*. His most recent book, *Rebooting AI*, with Ernest Davis, is one of *Forbes*'s 7 Must Read Books in AI.

Keynote Talk

Towards a Responsible NLP: Walking the Walk

Mona Diab
Meta Responsible AI and The George Washington University
2022-12-11 14:00:00 – Room: **Hall B**

Abstract:



Sunday, December 11, 2022 - Room: **Hall B** - Time: **14:00-15:00**

Abstract: In a world of racing to get the best systems on leaderboards, winning best shared tasks, building the largest LM, are we losing our soul as a scientific enterprise? Do we need to re-orient and re-pivot NLP? If so, what is needed to make this happen? Can we chart together a program where we ensure that science is the pivotal ingredient in CL/NLP? Could Responsible NLP be an avenue that could lead us back towards that goal? In this talk, in the spirit of Empirical NLP, I will explore some "practical" ideas around framing a Responsible NLP vision hoping to achieve a higher scientific standard for our field, addressing issues from the "how" we conduct our research and venturing into the "what" we work on and produce using tenets from responsible mindset perspective. I will pose more questions than answers. This is a call to action, an invitation to start a real global community conversation, hopefully engaging all stakeholders: academia, industry, government and civic society.
Bio: Mona Diab is the Lead Responsible AI Research Scientist with Meta. She is also a full Professor of Computer Science at the George Washington University (on leave) where she directs the CARE4Lang NLP Lab. Before joining Meta, she led the Lex Conversational AI project within Amazon AWS AI. Her current focus is on Responsible AI and how to operationalize it for NLP technologies. Her interests span building robust technologies for low resource scenarios with a special interest in Arabic technologies, (mis) information propagation, computational socio-pragmatics, computational psycholinguistics, NLG evaluation metrics, language modeling and resource creation. Mona has served the community in several capacities: Elected President of SIGLEX and SIGSemitic, and she currently serves as the elected VP for ACL SIGDAT, the board supporting EMNLP conferences. She has delivered tutorials and organized numerous workshops and panels around Arabic processing, Responsible NLP, Code Switching, etc. She is a cofounder of CADIM (Consortium on Arabic Dialect Modeling, previously known as Columbia University Arabic Dialects Modeling Group), in 2005, which served as a world renowned reference point on Arabic Language Technologies. Moreover she helped establish two research trends in NLP, namely computational approaches to Code Switching and Semantic Textual Similarity. She is also a founding member of the *SEM conference, one of the top tier conferences in NLP. Mona has published more than 250 peer reviewed articles.

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