NAACL 2024

The 2024 Conference of the North American Chapter of the Association for Computational Linguistics

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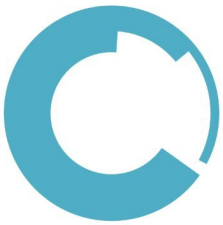

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Message from the General Chair

Welcome to the 2024 meeting of the North American Association for Computational Linguistics! This year, the conference is in Mexico City. NAACL was actually already planned for Mexico City in 2021, but due to the pandemic the entire conference was moved online. This year, finally, we get to go! So it is my sincere pleasure to welcome you to Mexico City, whether in person or virtually. Having the conference in Mexico City is a good opportunity to emphasize that NAACL is our flagship conference for ACL members not only in North America but also in Central and South America, even though NAACL has been bearing "North" in its name. At this year's conference, we have a theme to match, with a theme track on the *Languages of Latin America* to showcase the linguistic diversity of the region.

This year, we decided, along with EACL and ACL, to rely fully on ACL Rolling Review (ARR) for conference submissions. It has been exciting and impressive to see, up close, the amount of work that went into making the process run smoothly. Many thanks to the ARR editors in chief, in particular Thamar Solorio and Mausam, for developing innovations for the reviewing process to keep pace with our growing community. Many thanks to the program chairs of all three conferences, for dealing with all the detail troubles as they arose. A big thank you also to the OpenReview team, in particular Andrew McCallum, Melissa Bok and Harold Rubio, for adding improvements to the platform specifically for ACL and for working tirelessly with us to handle whatever came up. And an extra big thank you to Ryan Cotterell, who has been building the software that we use to publish from ARR and who worked with the OpenReview team to design the platform improvements, and to the ACL board, in particular Iryna Gurevych, for putting money into making OpenReview/ARR publishing better.

The opportunity to present at NAACL should not depend on a researcher's travel budget, or their family status. This is why it is so important to make virtual participation at NAACL as good an experience as possible – but we want to also provide a good experience for in-person participants. As a community, we are still working out the best way to do that. This year at NAACL, we are trying out a big virtual poster session ahead of the conference, with the hope that this will make make for a lively and interactive experience. At the same time, we are reducing virtual oral presentations, which seem to be particularly tricky to make to work well. A big thanks to the NAACL program chairs and to Luciana Benotti for all their ideas and work to improve the virtual experience. And participants, virtual as well as in-person: Please let us know what worked for you and what didn't, so we can continue to improve hybrid conferences.

I have been lucky to work with many amazing people. Without their insight, dedication and patience, and without the many hours of work they put in, NAACL would not have been possible. A huge thank you to the program chairs Helena Gomez, Kevin Duh, and Steven Bethard – you are the best!

And special thanks to Jenn Rachford, the ACL business manager, who has dealt with room assignments, local arrangements in Mexico City, and so many details of conference planning. We couldn't have done it without your support and guidance.

And many thanks also to...

- The workshop chairs Niranjan Balasubramanian, Malihe Alikhani, and Alexis Palmer
- The tutorial chairs Rui Zhang, Nathan Schneider and Snigdha Chaturvedi
- The demo chairs Nazneen Rajani, Kai-Wei Chang and Annie Lee
- The industry track chairs Avi Sil, Yi Yang, Anoop Kumar, and Aida Davani
- The student workshop chairs Trista Cao, Isabel Papadimitriou and Anaelia Ovalle, and their faculty advisors Marcos Zampieri, Frank Ferraro and Swabha Swayamdipta
- The publication chairs Ryan Cotterell, Maarten Sap and Lifu Huang

- The website chairs Vered Shwartz and Xinya Du
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- The local chair Hiram Calvo

Many thanks also to the chairs of the previous year's conferences, who were always ready to help and share their experience, and to the members of the ACL and NAACL Executive Committees for their support, feedback and advice, especially Iryna Gurevych, Emily Bender, and Graham Neubig.

Finally, I would like to thank all authors, invited speakers and panelists, area chairs and reviewers, the volunteers organizing and chairing sessions, and all attendees, in-person and virtual. Thank you for helping us make NAACL 2024 come to life.

Welcome and hope you all enjoy the conference!

Katrin Erk
The University of Texas at Austin
NAACL 2024 General Chair

Message from the Program Chairs

Hi, Welcome to the 2024 Annual Conference of the North American Association for Computational Linguistics! NAACL 2024 is a hybrid conference, and we are excited to have attendees and presenters join us both in person in Mexico City and online from all over the world. We are especially thrilled to hold the conference in Mexico City, which was originally planned for NAACL 2021 before COVID-19 required the transition to a virtual meeting. This will be the first NAACL conference in Latin America, and we hope this will contribute to a tradition of broadening access and participation in the greater region.

Special Theme: Languages of Latin America Languages are the heart and soul of cultural identity and communication, and nowhere is this more evident than in the vibrant tapestry of Latin America and the Caribbean. With a rich linguistic diversity that spans Spanish, Portuguese, and numerous indigenous languages, the region offers a unique challenge and opportunity for natural language processing researchers. For NAACL 2024, we invited submissions to the special theme track on "Languages of Latin America". This track was dedicated to taking stock of past research and developments in the field of natural language processing for languages of Latin America and the Caribbean while charting the course for future investigations. We received 19 submissions to the special theme, of which 10 have been accepted to appear at the conference.

Review Process NAACL 2024 implemented a two stage review process, where submissions were first sent to ACL Rolling Review (ARR) for reviews by reviewers and for meta-reviews by area chairs, and then sent to a separate NAACL 2024 commitment site for recommendations by senior area chairs and final acceptance decisions by program chairs.

For the ARR submission part of the process, NAACL program chairs coordinated with EACL 2024 and ACL 2024 program chairs to ensure a smooth revise-and-resubmit cycle across the three conferences. We also coordinated across conferences to recruit thousands of new reviewers and hundreds of new area chairs to ARR, resulting in 7344 reviewers and 870 ACs in the 2023 December ARR cycle to which most NAACL 2024 papers were submitted. Overall, the ARR process went mostly smoothly, successfully delivering three reviews and a meta-review for all 2604 papers submitted. Several of the suggestions that NAACL 2024 program chairs collected for improving the process (e.g., better OpenReview integration of the responsible NLP checklist) have already been adopted by ARR for future cycles.

For the NAACL commitment part of the process, NAACL program chairs recruited 73 senior area chairs for the 25 research areas defined by ARR. Senior area chairs made acceptance recommendations for 1140 committed papers based on the papers, reviews, and meta-reviews, and program chairs finalized the recommendations into acceptance decisions.

Acceptance Rate The acceptance rate calculation follows precedent set by previous conferences that also go through ARR, e.g. NAACL 2022, EACL 2024. The calculation takes into account the multi-stage process of ARR where a paper may get revised in ARR and then later committed to the conference. The denominator includes:

- Papers in the ARR December 2023 cycle that selected NAACL as a preferred venue.
- Papers in the ARR December 2023 cycle that did not select any conference as a preferred venue.
- Papers in the ARR December 2023 cycle that selected another conference, but then committed to NAACL 2024.
- Papers in the ARR cycles before December 2023 that committed to NAACL 2024.

In total, we had 2604 submissions in the ARR December 2023 cycle. Among these, 29 were withdrawn before reviews were released and 115 were desk-rejected. Of the remaining, 2328 had either an unspecified venue or included NAACL as the desired venue. Further, 17 out of the 132 submissions that selected other venues were committed to NAACL. Finally, an additional 89 papers from other cycles were committed. So in total, the denominator for acceptance rate calculation is 2328 + 17 + 89 = 2434. Among these, 1140 papers were officially committed to NAACL, and 565 were accepted. The acceptance rate for Main Conference papers is therefore: 565 / 2434 = 23.2

Findings papers are those which are not accepted at the Main Conference, but nevertheless have been judged worthy of publication as solid work with sufficient substance, quality and novelty. The next 304 / 2434 = 12.5

Presentation Format At NAACL 2024, we aimed to set all main conference papers on equal ground. All presenters were allowed the same 13 minute video recording on the virtual site, regardless of whether a paper was long or short, whether the presenter decided to attend in-person or virtually, and whether the paper was assigned an oral presentation or a poster presentation.

To ensure there was no prestige associated with getting to present in oral vs. poster format, we tried a new approach to presentation decisions: we assigned them randomly. Specifically, we calculated the counts of papers across research areas, took the square roots of the counts to slightly upweight smaller areas, converted the counts to a distribution, and then randomly sampled 130 orals from the research areas according to the distribution (sampling in blocks of 5 to match the duration of oral sessions at the conference).

Program Format At NAACL 2024, we aimed to improve both the in-person and virtual experiences. For this, we are implemented the following two actions:

- A pre-conference virtual poster session was scheduled for Thursday, June 13, 2024, avoiding conflicts with the conference's in-person sessions, and including different sessions to accommodate various time zones. The goal of this move was to encourage all attendees, both virtual and in-person, to join the virtual poster session.
- Oral presentations were given only to in-person attendees. (Oral presentations were still set to be live-streamed for all virtual attendees). The goal of this move was to avoid Zoom fatigue and encourage more in-person engagement with oral presenters.

The program includes live (and live-streamed) keynotes, plenaries, and panels, more than 100 live (and live-streamed) oral presentations, more than 400 live poster presentations, and more than 200 virtual poster presentations at the pre-conference event. The keynotes cover exciting topics including large language models and indigenous languages (Claudio Pinhanez, IBM Research Brazil) and large language models and neuroscience (Seana Coulson, UCSD), while the panel addresses the important issue of large language models and their impact on education (Victoria Yaneva, National Board of Medical Examiners; Swapna Somasundaran, Educational Testing Service; Karen Matías, Universidad Nacional Autónoma de México; and Ekaterina Kochmar, Mohamed Bin Zayed University of Artificial Intelligence). Other plenaries include the NAACL business meeting and the best paper awards session. The program is rounded out with dedicated sessions during the main conference for industry track, demonstrations track, student research workshop, NAACL Findings papers, and TACL/CL accepted papers.

Gratitude Conference organization is a team effort. We are very grateful for the support and contributions of many people, including:

- The General Chair, Katrin Erk

- The ARR Editors-in-Chief of the Dec 2023 cycle (Mausam, Vincent Ng) and the entire team (Viviane Moreira, Thamar Solorio, Lilja Øvrelid, Jun Suzuki, Jonathan Kummerfield)
- The OpenReview team, especially Harold Rubio
- The 73 Senior Area Chairs
- The 870 Area Chairs and 7344 Reviewers
- The best paper committee chairs, Isabelle Augenstein and Manuel Montes y Gómez
- The ethics chairs (Cecilia Alm, Diana Galvan Sosa, Anjalie Field, Ameeta Agrawal, Daniel Fried, Mark Yatskar, Maria Antoniak, Alane Suhr) and their team of reviewers
- The website chairs, Vered Shwartz and Xinya Du
- The publication chairs, Ryan Cotterell, Maarten Sap, and Lifu Huang, and their team of student helpers
- The publicity chairs, Ximena Gutierrez-Vasques, Samuel Gonzalez-Lopez, and Najoung Kim
- The local chair, Hiram Calvo
- The volunteers chairs, Lucy Lu Wang and Liang Huang
- The ACL Anthology Director, Matt Post, and his team
- The Program Chairs of EACL 2024 (Yvette Graham, Matthew Purver) and ACL 2024 (Lun-Wei Ku, Andre Martins, Vivek Srikumar)
- Damira Mršić and Underline Team
- Jenn Rachhford and entire conference support staff

Kevin Duh, Helena Gomez, and Steven Bethard
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Keynote Talk

Harnessing the Power of LLMs to Vitalize Indigenous Languages

Claudio Pinhanez
IBM Research Brazil

Monday, June 17 – Time: **9:30 – 10:30** –

Abstract: How can Large Language Models (LLMs) and modern NLP be used to increase the use and the documentation of Indigenous languages which are in danger of disappearing? First, I report on the development of high-quality translators for Indigenous languages by fine-tuning SOTA machine translators with tiny amounts of data, and discuss how to avoid some common pitfalls. Next, I present prototypes built with Indigenous communities aiming to stimulate and facilitate writing, using LLM models to create spell-checkers, next-word predictors, and similar tools. Finally, I discuss a future for documentation where dying languages are preserved as interactive language models.

Bio: Claudio Pinhanez is a scientist, innovator, and professor. He is currently a Principal Scientist in the laboratory of IBM Research in Brazil where he leads research on artificial intelligence, human-machine interaction, and natural language processing. He is also the Deputy Director of the Center for Artificial Intelligence of the University of São Paulo, where he is a Visiting Professor at the Institute of Advanced Studies. Claudio got his Ph.D. from the MIT Media Laboratory in 1999, joined the IBM Research T.J. Watson laboratory in New York and in 2010 co-founded the IBM Research laboratory in Brazil. Since 2022 he leads a joint project of IBM Research and the University of São Paulo focused on the use of AI technology to document and vitalize Brazilian Indigenous languages.

Keynote Talk

Distributional Semantics: What do large language models have to say?

Seana Coulson
University of California San Diego

Wednesday, June 19 – Time: **14:00 – 15:00** –

Abstract: Large language models motivate an approach to meaning known as distributional semantics, that words mean what they do because of how they're distributed in language. In this talk I will describe some evidence from my lab that suggests metrics from large language models do a good job of predicting behavioral and neural responses to some aspects of human language. I go on to describe some research that highlights important differences in meaning processing in humans and the 'understanding' displayed by language models. Discrepancies are particularly noteworthy in studies of joke comprehension.

Bio: Seana Coulson received her Ph.D. in Cognitive Science from the University of California San Diego in 1997. The recipient of fellowships from the McDonnell Pew foundation and the NIH NRSA, she worked as a post-doctoral fellow in the Psychology Department at the University of Arizona from 1997-1999. In 1999, she returned as faculty to UC San Diego's Cognitive Science Department. She is currently a full Professor, holds the Jeffrey Elman Chancellor's Endowed Chair of Cognitive Science, and co-directs the UCSD/SDSU Joint Doctoral Program in Language and Communicative Disorders. She directs the Brain and Cognition Lab at UC San Diego where her research concerns how people understand language and other meaningful stimuli.

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