

ACL 2024

**The 62nd Annual Meeting of the Association for  
Computational Linguistics (ACL 2024)**

**Proceedings of the Conference Volume 2: Short Papers**

August 11-16, 2024

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Association for Computational Linguistics (ACL)  
317 Sidney Baker St. S  
Suite 400 - 134  
Kerrville, TX 78028  
USA  
Tel: +1-855-225-1962  
[acl@aclweb.org](mailto:acl@aclweb.org)

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## Message from the General Chair

Originally named the Association for Machine Translation and Computational Linguistics (AMTCL), the Association for Computational Linguistics was founded in 1962 and renamed the ACL in 1968.

The ACL is run by some 20 volunteers overseeing the administration of the Association (organising elections, deciding on new actions, adapting to the fast changing trends of our fields), the publication of two journals (*Computational Linguistics* and the *Transaction of the ACL*) and the organisation of the ACL, EACL, NAACL and AACL conferences. The ACL executive board is regularly renewed based on elections from the membership. To ensure continuity, some of the volunteers (e.g., secretary, treasurer and anthology editor) serve longer term mandates and a professional Business Manager gives much needed support to the daily management of the Association.

While ACL runs multiple conferences and workshops each year, the ACL conference is the flagship conference of the Association and like the field in general, it has seen drastic changes over the years both in terms of approaches (from symbolic to statistical to neural) and in terms of popularity (from a few academics to a large population of several thousands academics and industrials with widespread geographical coverage).

It is a testimony to the strength of the Association that the ACL meeting has been held annually since 1962. Also remarkable is that, thanks to Steven Bird's initiative, the proceedings are available online in the ACL anthology since ACL 1979 (which hosted a whopping 23 papers!).

In this note, I would like to welcome all participants to ACL 2024, the 62<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics (held in Bangkok, Thailand, August 11-16, 2024), and to express my gratitude to another large set of volunteers who made ACL 2024 possible.

First and foremost, I would like to thank the three Program Chairs, Lun-Wei Ku, Andre Martins and Vivek Srikumar who oversaw the reviewing process, selected the keynote speakers and created the conference program. 2024 was the first year where all \*CL conferences moved entirely to the ACL Rolling Review model. This meant a novel process working in tight interaction with the ARR team while handling a huge number of submissions. Thanks to Lun-Wei, Andre and Vivek, to the ARR Editors in Chief (Mausam, Viviane Moreira, Vincent Ng, Lilja Øvrelid, Thamar Solorio, Jun Suzuki), to the Senior Area Chairs, Area Chairs, reviewers, and to the Best Paper Committee, who worked together to select the ACL 2024 program.

The workshop and the tutorial program was created by the Workshop (Eunsol Choi, Xipeng Qiu) and the Tutorial (Luis Chiruzzo, Hung-yi Lee, Leonardo Ribeiro) Chairs, who collaborated with EACL, NAACL and EMNLP 2024 to select 32 workshops and 6 tutorials that cover both technical and societal areas of Natural Language Processing.

The program also includes demonstrations selected by the Demonstration Chairs (Yixin Cao, Yang Feng, Deyi Xiong), as well as the traditional Student Research Workshop, which was put together by the SRW Chairs (Eve Fleisig, Xiyan Fu), with the guidance and support of the faculty advisors (Ekapol Chuangsuwanich, Yuval Pinter). Thank you all!

Preparing the proceedings is another large, time consuming task. Thanks to the Publication Chairs (Miruna Clinciu, Zhiyu Zoey Chen, Chen Liang, Bing Liu) for coordinating the preparation of all proceedings, including the main conference proceedings, findings, demonstration, SRW and workshop proceedings.

The Website Chairs (Yun-Nung Chen, Vipas Sutantayawalee) created the website and were quick in responding to our queries for updates; thank you Vipas and Yun-Nun. Thanks also to the Publicity and Social Media Chairs (Yuki Arase, Dimitra Gkatzia, Jing Jiang) who communicated and publicized the conference through various social media channels, enhancing the visibility and reach of the conference. Thanks also to the Handbook Chairs (Loic Barrault, Pierre Colombo) for creating the conference handbook that will guide you through the conference program.

Making ACL accessible to a wider community was the task of the Diversity and Inclusion Chairs (Aparna Garimella, Lin Gui, Jing Li, Steven Wilson). Thank you all for helping in fostering a diverse and inclusive environment.

Thanks to the Ethics Chairs (Aurélie Névéol, Alice Oh), who checked papers flagged with ethics issues. They had to process many more papers than expected but handled the overflow brilliantly.

The Technical Open Review Chairs (Thiago Castro-Ferreira, Taro Watanabe) helped out with Open Review related requests and the Virtual Infrastructure Chairs (Gaël Guibon, Gözde Gül, Rachada Kongkrachantra), made various enhancements to the virtual platform to ensure an engaging conference experience. Thank you!

The conference is also a successful recipient for thousands of emails. Many thanks go to the Internal Communication Chairs (Claudia Borg, Yannick Parmentier, Valentina Pyatkin), for their efficient and much needed processing of the multiple emails sent to ACL 2024.

The registration fees would be considerably higher without our sponsors generous contributions. Sincere thanks to them and to Chris Callison-Burch, the ACL sponsorship Director who, together with the Sponsorship Chairs (Lluis Marquez, Kobbrit Viriyayudhakorn) succeeded in securing the sponsorships that are crucial in helping keep registration fees down.

Sol Rosenberg and his team provide the Underline virtual platform - thank for their support in collaborating with us to meet our needs and accommodate ACL feature requests.

The local team (Thepchai Supnithi, Prachya Bookwan, Thanaruk Theeramunkong) did a wonderful job locating the venue, providing help with local and visa information, booking hotels for the participants and organizing a social program.

During the conference, student volunteers help make the conference run smoothly. Many thanks to them and to the Student Volunteer Chairs (Hao Fei, Margot Mieskes, Liangming Pan) who reviewed applications, selected the student volunteers, and assigned them their tasks.

Much of the know-how for the various chair positions is based on insights gleaned from earlier events. Thanks to previous ACL conference Chairs for sharing their experience, and to the ACL Exec for their support.

Special thanks go to Jennifer Rachford, ACL Business Manager, whose remarkable ability to juggle multiple conferences and interact with overloaded scientists make the impossible possible. Her knowledge of the ACL conferences and of their multiple aspects is essential for the success of our conferences.

Finally, let me thank you all, authors, reviewers, presenters, workshop organizers and participants of the conference. Thank you for choosing to be part of ACL 2024, I wish you a very enjoyable conference!

ACL 2024 General Chair

Claire Gardent

CNRS, France

## Message from the Program Chairs

Welcome to the 62<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics! ACL 2024 will feature a hybrid format, allowing attendees to join us in person in Bangkok, Thailand, or to participate remotely from anywhere in the world. We are pleased to be hosting the conference in Bangkok, which was the original planned venue for ACL 2021 before the COVID-19 pandemic forced a change. Organizing ACL 2024 has been a team effort involving thousands of people. We would like to thank the support and contributions of the following people:

- The General Chair, Claire Gardent;
- The ARR Editors-in-Chief of the Feb 2025 cycle (Viviane Moreira, Jun Suzuki) and the entire team (Lilja Øvreliid, Mausam, Thamar Solorio, Vincent Ng, Jonathan Kummerfeld, Sudipta Kar);
- The OpenReview team;
- The 72 Senior Area Chairs;
- The 718 Area Chairs and the 4209 reviewers;
- The awards committee chairs, Hal Daumé, Raquel Fernández and Yuji Matsumoto, and the 20 awards committee members;
- The ethics committee led by Alice Oh and Aurélie Névéol, along with Malihe Alikhani and Vino-dkumar Prabhakaran from ARR;
- The website chairs, Yun-Nung (Vivian) Chen and Vipas Sutantayawalee;
- The publication chairs, Miruna Clinciu, Bing Liu, Zhiyu Zoey Chen and Chen Liang;
- The handbook chairs Pierre Colombo and Loic Barrault
- The local organization chairs, Thepchai Supnithi, Prachya Bookwan, Thanaruk Theeramunkong, and their team;
- The publicity and social media chairs, Yuki Arase, Jing Jiang, and Dimitra Gkatzia;
- The student volunteer chairs, Margot Mieskes, Hao Fei and Liangming Pan;
- The ACL Anthology Director, Matt Post, and his team;
- The TACL editors-in-chief (Asli Celikyilmaz, Roi Reichart, Dilek Hakkani Tur) and CL Editor-in-Chief Wei Lu for coordinating TACL and CL presentations with us;
- The NAACL 2024 Program Chairs (Kevin Duh, Helena Gomez, and Steven Bethard) and the ACL 2023 Program Chairs (Anna Rogers, Jordan Boyd-Graber and Naoki Okazaki);
- Damira Mršić and Underline Team;
- Jennifer Rachford and entire conference support staff;
- All the authors of papers submitted for review and committed to the conference.

**Review process** All ACL 2024 submissions were channeled through a two-stage review process: Submissions were first sent to ACL Rolling Review (ARR) for reviews (by reviewers) and meta-reviews (by area chairs). Then, authors could choose to commit their reviewed papers to ACL via a separate ACL 2024 commitment site for recommendations by senior area chairs and final acceptance decisions by the program chairs. In this, ACL 2024 follows EACL 2024 and NAACL 2024.

We worked closely with the ARR team, especially the February 2024 Editors-in-Chief, and served as guest Editors-in-Chief for this cycle. We helped recruit new reviewers and area chairs to ARR, resulting in 4209 reviewers and 718 ACs in the 2024 February ARR cycle to which most ACL 2024 papers were submitted. The 72 senior area chairs recruited by ACL helped oversee the review and meta-review process during this phase. Overall, the ARR process went mostly smoothly, successfully delivering at least three reviews and a meta-review for all papers submitted.

For the ACL commitment part of the process, the senior area chairs made acceptance recommendations for 2931 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. EACL 2024, NAACL 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 February 2024 cycle that selected ACL as a preferred venue.
- Papers in the ARR February 2024 cycle that did not select any conference as a preferred venue.
- Papers in the ARR February 2024 cycle that selected another conference, but then committed to ACL 2024.
- Papers in the ARR cycles before February 2024 that committed to ACL 2024.

In total, we had 4,835 submissions in the ARR February 2024 cycle. Among these, 276 were withdrawn before reviews were released and 169 were desk rejected. Among the remaining, 4244 had either an unspecified venue or included ACL as a desired venue. Among the submissions that selected other venues, three papers were committed to ACL. Finally, an additional 160 papers from other cycles were committed to ACL. In total, the denominator for the acceptance rate calculation is  $4244 + 3 + 160 = 4407$ . Among these, 2931 were committed to ACL.

Among the committed papers, 940 were accepted to the Main Conference. The acceptance rate for Main Conference papers is therefore  $940 / 4407 = 21.3\%$ . A further 975 papers were accepted to Findings of ACL, representing solid work that is has been judged worthy of publication with sufficient substance, quality and novelty. The acceptance rate for Findings of ACL is  $975 / 4407 = 22.1\%$ .

**Special Theme: Open science, open data, and open models for reproducible NLP research** The rise of large language models as a general purpose tool for NLP has opened up exciting possibilities for NLP. But their widespread adoption via closed APIs has also raised concerns about transparency and reproducibility. When we do not have access to information about how these models were trained or the data they learned from, it becomes challenging to build upon existing research and compare new approaches fairly. This lack of openness poses a risk to progress in our field. With this perspective in mind, for ACL 2024, we invited submissions to a special theme titled “Open science, open data, and open models for reproducible NLP research”.

With this theme track, we sought a discussion on increased transparency in the field by promoting the use of open models and open-source initiatives in NLP as an alternative to closed approaches. We encouraged contributions related to the release of high quality datasets, novel ideas for evaluation, non-trivial algorithm and toolbox implementations, and models which are properly documented (e.g. via model cards).

We received 55 submissions to the theme track during the review phase. Among these, 22 papers were accepted to the main conference and a further 16 to Findings of ACL.

**Paper Awards** ACL 2024 implemented the updated ACL award policy that seeks to expand the pool of work recognized as outstanding. In total 102 papers were nominated by the reviewers, area chairs and senior area chairs for consideration. The Awards Committee assessed these papers to select the best papers (featuring  $\leq 0.25\%$  of accepted papers), outstanding papers (featuring  $\leq 2.5\%$  of accepted papers), and special awards for social impact and best resource. Separately, the senior area chairs of individual tracks also selected papers in their track for the area chair awards. Finally, the program chairs selected one paper from the papers submitted to the conference theme track as the best theme paper. The recent change in ACL policy allows papers to be non-anonymous during the review process via public preprints. To recognize submissions that remained anonymous, we followed the policy recommendation to have separate best and outstanding paper awards for submissions that remained anonymous to the public during the whole process.

All the awards will be announced in a dedicated plenary session on the last day of the conference.

**Program composition & presentation modes** Based on feedback from the conference support staff and the Underline team after NAACL 2024, we decided to hold the virtual poster session separately, and *after* the in-person conference ended. The post-conference virtual sessions were scheduled to avoid conflicts with the in-person attendees of the conference. The goal was to encourage all attendees—both virtual and in-person—to join the virtual conference. All in-person papers accepted to the main conference were given a poster slot. In addition, 102 papers were assigned oral presentations. These papers were selected by the program chairs and the decision was motivated by the goal of having a well-rounded program with a diverse set of topics. Additionally, all Findings papers were also assigned a poster presentation in separate Findings posters sessions in the conference.

The ACL program features three exciting keynote speakers: Sunita Sarawagi, Subbarao Kambhampati and Barbara Plank. Further, to celebrate the venue of ACL, the program also including a panel discussion focusing on Southeast Asian languages featuring panelists Ayu Purwarianti, William Tjhi and Sarana Nutanong.

The ACL program also includes 6 papers accepted by the Computational Linguistics journal and 31 papers accepted by the Transactions of ACL (TACL). All journal papers whose authors were attending the conference in person were given oral presentation slots and thematically distributed in the conference in appropriate sessions. The program is rounded out with dedicated sessions during the main conference for the demonstrations track and student research workshop.

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

Lun-Wei Ku (Academia Sinica, Taiwan)

André F. T. Martins (Instituto Superior Técnico, Instituto de Telecomunicações, Unbabel, Portugal)

Vivek Srikumar (University of Utah, USA)

ACL 2024 Program Committee Co-Chairs

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Guillaume Jacquet, Kanishk Jain, Naman Jain, Nihal Jain, Rishabh Jain, Shoaib Jameel, Abhik Jana, Arabella Jane Sinclair, Eugene Jang, Hyewon Jang, Yoonna Jang, Anubhav Jangra, Sujay Kumar Jauhar, Tommi Jauhainen, Dávid Javorský, Ganesh Jawahar, Sébastien Jean, Fran Jelenić, Christopher Jenkins, Eojin Jeon, Soyeong Jeong, Young-Seob Jeong, Sullam Jeoung, Kevin Jesse, Elisabetta Jezek, Akshita Jha, Ananya Harsh Jha, Sneha Jha, Donghong Ji, Jiabao Ji, Tao Ji, Tianbo Ji, Wei Ji, Yixin Ji, Menglin Jia, Qinjin Jia, Xu Jia, Zhiwei Jia, Zixia Jia, Lim Jia Peng, Liu Jiaheng, Xiangru Jian, Chao Jiang, Chao Jiang, Chengyue Jiang, Dongfu Jiang, Fan Jiang, Gongyao Jiang, Haiyun Jiang, Huiqiang Jiang, Jinhal Jiang, Jiyue Jiang, Jyun-Yu Jiang, Lei Jiang, Minhao Jiang, Shuoran Jiang, Song Jiang, Tianyu Jiang, Ting Jiang, Wenhao Jiang, Xiaotong Jiang, Yong Jiang, Yuxin Jiang, Zhengping Jiang, Zhiying Jiang, Zifan Jiang, Ziyan Jiang, Ziyue Jiang, Cathy Jiao, Fangkai Jiao, Rui Jiao, Wenxiang Jiao, Yizhu Jiao, Bernal Jimenez, Bowen Jin, Di Jin, Feihu Jin, Lesheng Jin, Li Jin, Qiao Jin, Renren Jin, Tao Jin, Xiaolong Jin, Xisen Jin, Zhuoran Jin, Zijian Jin, Ishan Jindal, Baoyu Jing, Wu Jing, Hwiyeol Jo, Mayank Jobanputra, Kristen Johnson, Se June Joo, Abhinav Joshi, Brihi Joshi, Harshit Joshi, Nitish Joshi, Pratik Joshi, Rishabh Joshi, Mingxuan Ju, Swanie Juhng, Baikjin Jung, Dongwon Jung, Woohwan Jung, Yeonjoon Jung, He Junwei, Gerhard Jäger

Karthikeyan K, Jad Kabbara, Anubha Kabra, Kazuma Kadokawa, Indika Kahanda, Dariusz Kajtoch, Kyriaki Kalimeri, Oren Kalinsky, Jan-Christoph Kalo, Ehsan Kamalloo, Amita Kamath, Hirotaka Kameko, Ryo Kamoi, Min-Yen Kan, Bhargav Kanagal, Hiroshi Kanayama, Teja Kanchinadam, Kamil Kanclerz, Jenna Kanerva, Feiyang Kang, Gi-Cheon Kang, Junmo Kang, Woo-Young Kang, Xiaomian Kang, Xiaoxi Kang, Nithish Kannan, Yoshinobu Kano, Surya Kanoria, Jiun-Yu Kao, Debanjana Kar, Pinar Karagoz, Amir Hossein Kargaran, Priyanka Kargupta, Hamid Karimi, Börje Karlsson, Constantinos Karouzos, Dimitri Kartsakis, George Karypis, Omid Kashifi, Zdeněk Kasner, Marc A. Kastner, Kiran Kate, Uri Katz, Navdeep Kaur, Pride Kavumba, Yoshifumi Kawasaki, Hideto Kazawa, Seyed Mehran Kazemi, Nazmul Kazi, Wenjun Ke, Zixuan Ke, Amr Keleg, Mikaela Keller, Casey Kennington, Roman Kern, Natthawut Kertkeidkachorn, Santosh Kesiraju, Tannon Kew, Lee Kezar, Baber Khalid, Ghazal Khalighinejad, Talaat Khalil, Abdul Khan, Aleem Khan, Haidar Khan, Mohammad Aflah Khan, Aditi Khandelwal, Urvashi Khandelwal, Shima Khanehzar, Simran Khanuja, Aparna Khare, Omar Khattab, Faiza Khattak, Ashish Khetan, Sopan Khosla, Dipika Khullar, Urja Khurana, Varun Khurana, Erica Kido Shimomoto, Mert Kilickaya, Krishnateja Killamsetty, Bosung Kim, Bugeun Kim, Byeongchang Kim, Byeongwook Kim, Byoungjip Kim, Dahyun Kim, Dong-Ki Kim, Doyoung Kim, Gangwoo Kim, Geewook Kim, Gyuwan Kim, Hannah Kim, Hyunjae Kim, Hyunwoo Kim, Jaehyung Kim, Jaein

Kim, Jangwon Kim, Jeonghoon Kim, Jiho Kim, Jihyuk Kim, Jinsung Kim, Jiseon Kim, Jongho Kim, Jung-Jae Kim, Junho Kim, Junu Kim, Junyeob Kim, Junyeong Kim, Juyong Kim, Kang-Min Kim, Minbeom Kim, Minsam Kim, Minsoo Kim, Minsoo Kim, Misuk Kim, Sanghee Kim, Seungbae Kim, Seungone Kim, Sungchul Kim, Taehwan Kim, Yeachan Kim, Yejin Kim, Young Jin Kim, Youngbin Kim, Yumin Kim, Zae Myung Kim, Vadim Kimmelman, Brendan King, Tracy King, Christo Kirov, Julia Kiseleva, Hirokazu Kiyomaru, Christopher Klamm, Jan-Christoph Klie, Mateusz Klimaszewski, Julien Kloetzer, Marius Kloft, René Knaebel, Kate Knill, Dohwan Ko, Goro Kobayashi, Sosuke Kobayashi, Elena Kochkina, Adrian Kochsieck, Jan Kocon, Muhammed Kocyigit, Prashant Kodali, Jordan Kodner, Guneet Kohli, Satoshi Koide, Ryuto Koike, Takeshi Kojima, Narine Kokhlikyan, Kolachan, Kanako Komiya, Grzegorz Kondrak, Sai Koneru, Cunliang Kong, Fanshuang Kong, Shu Kong, Sarawoot Kongyoung, Myoung-Wan Koo, Seonmin Koo, Michalis Korakakis, Katerina Korre, Katsunori Kotani, Fajri Koto, Ketan Kotwal, Manolis Koubarakis, Vasiliki Kougia, Punit Singh Koura, Geza Kovacs, Ivan Koychev, Matt Kretchmar, Satyapriya Krishna, Adit Krishnan, Benno Krojer, Jason Krone, Mateusz Krubiński, Canasai Kruengkrai, Alapan Kuila, Sebastian Kula, Atharva Kulkarni, Nitish Kulkarni, Sayali Kulkarni, Abhinav Kumar, Anoop Kumar, Prince Kumar, Rishabh Kumar, Sachin Kumar, Sawan Kumar, Shankar Kumar, Shivani Kumar, Sonal Kumar, Vineet Kumar, Sadhana Kumaravel, Lilly Kumari, Gourab Kundu, Souvik Kundu, Po-Nien Kung, Yen-Ling Kuo, Olli Kuparinen, Yury Kuratov, Hiroto Kurita, Shuhei Kurita, Mascha Kurpicz-Briki, Robin Kurtz, Wojciech Kusa, Andrey Kutuzov, Saar Kuzi, Ilia Kuznetsov, Henry Kvinge, Haewoon Kwak, Deuksin Kwon, Jingun Kwon, Se Jung Kwon, Tanja Käser

Bonnie L. Webber, Vincent Labatut, Bolin Lai, Catherine Lai, Cheng-I Lai, Huiyuan Lai, Viet Lai, Yi-An Lai, Kushnareva Laida, Kushal Lakhotia, Egor Lakomkin, Yash Kumar Lal, Jessica Lam, Hemank Lamba, Luc Lamontagne, Sylvain Lamprier, Wuwei Lan, Yunshi Lan, Jack Lanchantin, Mateusz Lango, Stefan Larson, Md Tahmid Rahman Laskar, Sahinur Rahman Laskar, Leonard Lausen, Alberto Lavelli, Jack Laviolette, Duc-Trong Le, Hang Le, Henry Le, Kevin Leach, Chia-Hsuan Lee, Chungman Lee, Daeun Lee, Dohyeon Lee, Dongha Lee, Dongjun Lee, Haeju Lee, Hayeon Lee, Hongrae Lee, Hyunju Lee, Jaejun Lee, Jaeseong Lee, Ji-Ung Lee, Koanho Lee, Mingyu Lee, Minhwa Lee, Nayeon Lee, Sanwoo Lee, Seanie Lee, Seolhwa Lee, Seonghyeon Lee, Soochan Lee, Sunkyung Lee, Yi-Hui Lee, Yongjae Lee, Youhan Lee, Young-Jun Lee, Youngwon Lee, Yukyung Lee, Yunsung Lee, Els Lefever, Fabrice Lefèvre, Joël Legrand, Fangyu Lei, Shuo Lei, Yibin Lei, Yu Lei, Alina Leidinger, Juho Leinonen, Haitao Leng, Yichong Leng, Artem Lenskiy, Paul Lerner, Ulf Leser, Johannes Leveling, Tomer Levinboim, Mosh Levy, Sharon Levy, Bangzheng Li, Baoli Li, Belinda Li, Bing Li, Bobo Li, Boyang Li, Bryan Li, Changchun Li, Changlin Li, Changmao Li, Changye Li, Chaozhuo Li, Chengkai Li, Chengming Li, Chengxi Li, Chenliang Li, Chong Li, Chuanyi Li, Chunping Li, Chuyuan Li, Daifeng Li, Dingcheng Li, Diya Li, Dong Li, Dongfang Li, Dongyuan Li, Fanrong Li, Feng-Lin Li, Haau-Sing Li, Haizhou Li, Hangyu Li, Hao Li, Haonan Li, Haoran Li, Haoran Li, Hebi Li, Huayang Li, Huihan Li, Irene Li, Jialu Li, Jiangnan Li, Jianjun Li, Jianxin Li, Jiatong Li, Jiaxi Li, Jiaxuan Li, Jiazha Li, Jing Li, Jinyuan Li, Jixing Li, Juan Li, Juanzi Li, Juncheng Li, Junlong Li, Junyi Li, Junzhuo Li, Ke Li, Li Li, Linjing Li, Lusi Li, Maolin Li, Meng Li, Mengze Li, Miao Li, Min Li, Mingchen Li, Mingjie Li, Mingxiao Li, Mingyang Li, Peifeng Li, Qi Li, Qian Li, Qicheng Li, Qing Li, Qing Li, Rongsheng Li, Ruifan Li, Ruixuan Li, Ruizhe Li, Rumeng Li, Ruosen Li, Sha Li, Shaobo Li, Shenggui Li, Shengjie Li, Shicheng Li, Shu'Ang Li, Shuyue Stella Li, Si Li, Sirui Li, Siyan Li, Sunzhu Li, Tianjian Li, Tianle Li, Tianrui Li, Tianyi Li, Tongliang Li, Weixian Li, Wen-Ding Li, Wendi Li, Wenyuan Li, Xiang Li, Xiang Li, Xiang Li, Xiangci Li, Xiangyang Li, Xianming Li, Xiao Li, Xiaocheng Li, Xiaonan Li, Xiaoya Li, Ximing Li, Xingxuan Li, Xinlin Li, Xintong Li, Xuefeng Li, Yafu Li, Yangning Li, Yanzhou Li, Yaoyiran Li, Yifei Li, Yinghao Li, Yinghui Li, Yingjie Li, Yingya Li, Yinqiao Li, Yitong Li, Yiwei Li, Yizhi Li, Yongqi Li, Yucheng Li, Yunshui Li, Yunxin Li, Zaijing Li, Zejun Li, Zekun Li, Zhaohui Li, Zhifeng Li, Zichao

Li, Ziheng Li, Zixuan Li, Ziyang Li, Zuchao Li, Zuhe Li, Bin Liang, Chao Liang, Jiafeng Liang, Jiaqing Liang, Sheng Liang, Shuo Liang, Tian Liang, Weixin Liang, Xiaobo Liang, Xiaozhuan Liang, Xiwen Liang, Yan Liang, Yuedi Liang, Yunlong Liang, Yuxuan Liang, Zhengzhong Liang, Zhenwen Liang, Baohao Liao, Hao Liao, I-Bin Liao, Jian Liao, Jinzhi Liao, Minpeng Liao, Qing Liao, Xiangwen Liao, Xinting Liao, Zihan Liao, Mark Liberman, Alexander Libov, Jindřich Libovický, Veronica Liesaputra, Jasy Suet Yan Liew, Jungwoo Lim, Kwan Lim, Shiao Hong Lim, Tomasz Limisiewicz, Peerat Limkonchotiwat, Chu-Cheng Lin, Feng Lin, Guan-Ting Lin, Haowei Lin, Hongzhan Lin, Hsien-Chin Lin, Jieyu Lin, Ke Lin, Li Lin, Lucy Lin, Qika Lin, Sheng-Chieh Lin, Tony Lin, Xudong Lin, Xueyuan Lin, Yen-Ting Lin, Yi-Cheng Lin, Ying-Jia Lin, Yupian Lin, Zheng Lin, Zhenxi Lin, Matthias Lindemann, Chen Ling, Haibin Ling, Gili Lior, Lipeize, Luo Lishu, Aiwei Liu, Alisa Liu, Anqi Liu, Bang Liu, Ben Liu, Bo Liu, Chen Liu, Chi-Liang Liu, Chunhua Liu, Dairui Liu, Daizong Liu, Danni Liu, Danyang Liu, Di Liu, Dongfang Liu, Dugang Liu, Emmy Liu, Fenglin Liu, Fuxiao Liu, Genglin Liu, Guangliang Liu, Guangyi Liu, Guisheng Liu, Han Liu, Hanmeng Liu, Huawei Liu, Haoyu Liu, Huadai Liu, Hui Liu, Hui Liu, Huidong Liu, Jia Liu, Jiachi Liu, Jiaming Liu, Jiateng Liu, Jiaxin Liu, Jingping Liu, Jingzhou Liu, Juhua Liu, Jun Liu, Lemao Liu, Ling Liu, Meizhen Liu, Minqian Liu, Ning Liu, Peiyang Liu, Pengyuan Liu, Puyuan Liu, Qiang Liu, Qijiong Liu, Qin Liu, Rui Liu, Rui Liu, Ruiyang Liu, Shifeng Liu, Shuliang Liu, Siyang Liu, Siyi Liu, Tengxiao Liu, Tianqi Liu, Tianyang Liu, Timothy Liu, Tong Liu, Wei Liu, Wei Liu, Weifeng Liu, Xiao Liu, Xiao Liu, Xiao Liu, Xiaolong Liu, Xiaolong Liu, Xiaoming Liu, Xiaoze Liu, Xin Liu, Xiuwen Liu, Xueqing Liu, Yafei Liu, Yanchi Liu, Yang Liu, Yang Janet Liu, Yao Liu, Ye Liu, Ye Liu, Ye Liu, YinHong Liu, YinXiao Liu, Yiqun Liu, Yixin Liu, Yongbin Liu, Yonghao Liu, Yongkang Liu, Yuanxing Liu, Yuchen Liu, Yuhan Liu, Yujian Liu, Yun Liu, Zemin Liu, Zheng Liu, Zhengyuan Liu, Zhenhua Liu, Zhexiong Liu, Zhi Liu, Zhiwei Liu, Zhongkun Liu, Zixuan Liu, Ziyi Liu, Kuan-Chieh Lo, Tien-Hong Lo, Tyler Loakman, Colin Lockard, Mengsay Loem, Lajanugen Logeswaran, Quanyu Long, Siyu Long, Wanqiu Long, Xinxwei Long, Yinghan Long, Adam Lopez, Alejo Lopez-Avila, Luca Lorello, Cedric Lothritz, Chao Lou, Qian Lou, Reze Lou, Antoine Louis, Natalia Loukachevitch, Lefteris Loukas, Justin Lovelace, Holy Lovenia, Bo-Ru Lu, Di Lu, Hengtong Lu, Hongyuan Lu, Jiaying Lu, Jinghui Lu, Jinliang Lu, Junru Lu, Kaiji Lu, Keming Lu, Ning Lu, Peng Lu, Qingyu Lu, Weiming Lu, Wenpeng Lu, Xiaolei Lu, Xiaoxin Lu, Xiaoyu Lu, Xin Lu, Xingyu Lu, Xinyu Lu, Xinyuan Lu, Xuesong Lu, Yi Lu, Yu Lu, Yujie Lu, Yuyin Lu, Evan Lucas, Gale Lucas, Fan Luo, Feng Luo, Fuli Luo, Ge Luo, Guoqing Luo, Haoran Luo, Haozheng Luo, Jiaming Luo, Jing Luo, Jixiang Luo, Junyu Luo, Liangchen Luo, Linhao Luo, Man Luo, Yanchen Luo, Yingfeng Luo, Yiran Luo, Yong Luo, Zhe-heng Luo, Zhekun Luo, Ziyang Luo, Lorenzo Lupo, Jordi Luque, Pedro Henrique Luz De Araujo, Chunchuan Lyu, Hanjia Lyu, Lijun Lyu, Weimin Lyu, Xinglin Lyu, Yiwei Lyu, Yougang Lyu

Da Ma, Fukun Ma, Guangyuan Ma, Jie Ma, Kaixin Ma, Mingyu Ma, Shiqing Ma, Tengfei Ma, Weicheng Ma, Xiangnan Ma, Xinbei Ma, Xingjun Ma, Xinyin Ma, Xueguang Ma, Yao Ma, Yingpeng Ma, Youmi Ma, Yun Ma, Yunpu Ma, Yunshan Ma, Zhengrui Ma, Ziqiao Ma, Ziyang Ma, Jakub Macina, Dominik Macko, Mounica Maddela, Rahul Madhavan, Tharindu Madusanka, Koki Maeda, Joao Magalhaes, Lucie Charlotte Magister, Khyati Mahajan, Kishan Maharaj, Adyasha Maharana, Robert Mahari, Samin Mahdizadeh Sani, Ayush Maheshwari, Gaurav Maheshwari, Himanshu Maheshwari, Tarek Mahmoud, Frederic Mailhot, Aviya Maimon, Gallil Maimon, Soumi Maiti, Arindam Majee, Jimit Majmudar, Ndivhuwo Makondo, Luca Malagutti, Lorenzo Malandri, Akanksha Malhotra, Bhavitya Malik, Vijit Malik, Sri Raghu Malireddi, Kolya Malkin, Christopher Malon, Mamta Mamta, Hieu Man, Potsawee Manakul, Saurav Manchanda, Thomas Mandl, Matteo Manica, Enrique Manjavacas, Ramesh Manuvinakurike, Alessandro Manzotti, Jiayuan Mao, Kelong Mao, Shaoguang Mao, Wenji Mao, Zhiming Mao, Zhuoyuan Mao, Marion Marco, Piotr Mardziel, E. Margaret Perkoff, Alda Mari, Riccardo Marin, Katja Markert, Elan Markowitz, Magdalena Markowska, Mounika Marreddy, Lara Martin, Abelardo Martinez Lorezon, Pedro Henrique Martins, Pekka Marttinen, Marcos Martínez Galindo, Claudia Marzi, Mihai Ma-

sala, Laura Mascarell, Ahmed Masry, Michele Mastromattei, Sarah Masud, Ved Mathai, Brodie Mather, Sandeep Mathias, Nitika Mathur, Puneet Mathur, David Matos, Sérgio Matos, Yuji Matsumoto, Evgeny Matusov, Jonathan May, Diana Maynard, Sahisnu Mazumder, Arya McCarthy, R. McCoy, John McCrae, Kate Mccurdy, Bradley McDaniel, Nick McKenna, Yashar Mehdad, Mahnoosh Mehrabani, Houman Mehrafarin, Nikhil Mehta, Sachin Mehta, Kai Mei, John Mendonca, Shiao Meng, Zaiqiao Meng, Ziqiao Meng, Aditya Menon, Rakesh Menon, Wolfgang Menzel, Simon Meoni, Fabio Mercorio, Yuval Merhav, Paola Merlo, Kourosh Meshgi, Enza Messina, Craig Messner, Eleni Metheniti, Guillaume Metzler, Tobias Meuser, Francois Meyer, Selina Meyer, Stefano Mezza, Chenggang Mi, Md Messal Monem Miah, Jin Miao, Yisong Miao, Yuchun Miao, Zhongjian Miao, Stuart Middleton, Tsvetomila Mihaylova, Vladislav Mikhailov, Elena Mikhalkova, Evangelos Milios, Simon Mille, Alice Millour, David Mimmo, Qingkai Min, Koji Mineshima, Benjamin Minixhofer, Hideya Mino, Fatemehsadat Mireshghallah, Seyedabolghasem Mirroshan-del, Roshanak Mirzaee, Anand Mishra, Pruthwik Mishra, Shubhanshu Mishra, Sandra Mitrovic, Sarthak Mittal, Shubham Mittal, Yusuke Miyao, Taro Miyazaki, Fengran Mo, Yijun Mo, Daichi Mochihashi, David Moeljadi, Lucas Moeller, Wafaa Mohammed, Biswesh Mohapatra, Jisoo Mok, Masoud Monajatipoor, Arturo Montejo-Ráez, Manuel Montes, Jong Hak Moon, Sangwan Moon, Yong-Hyuk Moon, Ray Mooney, Jared Moore, Ibraheem Muhammad Moosa, Steven Moran, Yusuke Mori, Gaku Morio, Gianluca Moro, Robert Moro, John Morris, Amit Moryossef, Aida Mostafazadeh Davani, Xinyi Mou, Seyed Mahed Mousavi, Rajiv Movva, Li Moxin, Frank Mtumbuka, Feiteng Mu, Yida Mu, Yongyu Mu, Sidharth Mudgal, Pramod Kaushik Mudrakarta, Aaron Mueller, Anjishnu Mukherjee, Rajdeep Mukherjee, Sagnik Mukherjee, Sandeep Mukku, Medet Mukushev, Matthew Mulholland, Ankan Mullick, Alif Munim, Koji Murakami, Soichiro Murakami, Lidiya Murakhovs'Ka, Masayasu Muraoka, Yugo Murawaki, John Murzaku, Zairah Mustahsan, Arianna Muti, Alberto Muñoz-Ortiz, Agnieszka Mykowiecka, Sheshera Mysore

Cheolwon Na, Seung-Hoon Na, Abhishek Nadgeri, Varun Nagaraj Rao, Atharva Naik, Gauri Naik, Sathvik Nair, Saeed Najafi, Tetsuji Nakagawa, Satoshi Nakamura, Yuta Nakashima, Jinseok Nam, Tejas Nama, Blind Name, Guoshun Nan, Ananjan Nandi, Subhrangshu Nandi, Abhilash Nandy, Isuri Nanomi Arachchige, Diane Napolitano, Rungsiman Nararatwong, Sharan Narasimhan, Tahira Naseem, Subhajit Naskar, Anandhavelu Natarajan, Swaroop Nath, Deepak Nathani, Shravan Nayak, Mir Tafseer Nayeem, Jan Nehring, Julia Neidhardt, Seyed Parsa Neshaei, Graham Neubig, Danilo Neves Ribeiro, Benjamin Newman, Youyang Ng, Duc-Vu Nguyen, Hoang Nguyen, Kiem-Hieu Nguyen, Kiet Nguyen, Minh Van Nguyen, Phuong Nguyen, Thanh-Tung Nguyen, Thi-Nhung Nguyen, Tin Nguyen, Truc-Vien Nguyen, Trungtin Nguyen, Tuan-Phong Nguyen, Vincent Nguyen, Ansong Ni, Jingwei Ni, Jinjie Ni, Shiwen Ni, Zhaoheng Ni, Ercong Nie, Jian-Yun Nie, Lunyiu Nie, Pengyu Nie, Yuxiang Nie, Elizabeth Nielsen, Animesh Nighojkar, Malvina Nikandrou, Irina Nikishina, Joel Niklaus, Dmitry Nikolaev, Mitja Nikolaus, Sergey Nikolenko, Vassilina Nikoulina, Iftitahu Nimah, Jinzhong Ning, Kosuke Nishida, Masaaki Nishino, Di Niu, Guanglin Niu, Hao Niu, Jingcheng Niu, Zhendong Niu, Joakim Nivre, Bill Noble, Tadashi Nomoto, Enrique Noriega-Atala, Damien Nouvel, Franz Nowak, Paul Nulty, Giorgio Nunzio, Sarana Nutanong, Antoine Nzeyimana

Sebastian Ochs, Brendan OConnor, Bahadorreza Ofoghi, Perez Ogayo, Byung-Doh Oh, Hanseok Oh, Jaehoon Oh, Yui Oka, Tsuyoshi Okita, Eda Okur, Abdul-Hakeem Omotayo, Ethel Ong, Subba Reddy Oota, Andreas Opedal, Juri Opitz, Sergio Oramas, Riccardo Orlando, Yohei Oseki, Ivan Oseledets, Yulia Otmakhova, Wolfgang Otto, Jiao Ou, Longshen Ou, Kai Ouyang, Siru Ouyang, Batu Ozturkler, Robert Östling, Şaziye Özates

Ankur Padia, Vishakh Padmakumar, Sebastian Pado, Aline Paes, Patrizia Paggio, Artidoro Pagnoni, Vardaan Pahuja, Partha Pakray, Proyag Pal, Santanu Pal, Vaishali Pal, Shramay Palta, Feifei Pan, Huitong Pan, Jiayi Pan, Weiran Pan, Xiao Pan, Xiaoman Pan, Xichen Pan, Yuchen Pan,

Zhufeng Pan, Artemis Panagopoulou, Shrey Pandit, Chenxi Pang, Liang Pang, Aleksandr Panov, Sheena Panthaplacek, Madhur Panwar, Alex Papadopoulos Korfiatis, Alexandros Papangelis, Sara Papi, Duccio Pappadopulo, Ashwin Paranjape, Bhargavi Paranjape, Letitia Parcalabescu, Amit Parekh, Tanmay Parekh, Rahil Parikh, Soham Parikh, Chaehun Park, Chanjun Park, Choonghyun Park, Eunhwan Park, Hyunji Park, Jinyoung Park, Jungsoo Park, Kunwoo Park, Sanghee Park, Seo Yeon Park, Seongsik Park, Sumin Park, Sungjin Park, Youngja Park, Mihir Parmar, Jacob Parnell, Marinela Parovic, Md Rizwan Parvez, Eliana Pastor, Panupong Pasupat, Mayur Patidar, Dhruba Patil, Vaidehi Patil, Rohit Paturi, Parth Patwa, Bibek Paudel, Debjit Paul, Felipe Paula, Adam Pauls, Silviu Paun, Tzuf Paz-Argaman, Pavel Pecina, Qizhi Pei, Shichao Pei, Yulong Pei, Baolin Peng, Bo Peng, Haoyuan Peng, Huang Peng, Letian Peng, Min Peng, Qiwei Peng, Qiyao Peng, Ru Peng, Shuyuan Peng, Siyao Peng, Xiangyu Peng, Xueping Peng, Yifan Peng, Yuxin Peng, Yotam Perlitz, Ali Pesaranghader, Stanislav Peshterliev, Denis Peskov, Jan-Thorsten Peter, Ben Peters, Dominic Petruk, Pavel Petrushkov, Chau Pham, Thang Pham, Fred Philipp, Renjie Pi, Tanzir Pial, Massimo Piccardi, Andrea Piergentili, Matúš Pikuliak, Rajesh Piryani, Lidia Pivarova, Moritz Plenz, Joan Plepi, Esther Ploeger, Massimo Poesio, Adam Poliak, Ramesh Poluru, Andrei Popescu-Belis, Nicholas Popovic, Sravya Popuri, Ian Porada, Beatrice Portelli, Amit Portnoy, Matt Post, Christopher Potts, Shrimai Prabhuloye, Aniket Pramanick, Pradip Pramanick, Shraman Pramanick, Jakob Prange, Animesh Prasad, Archiki Prasad, Paul Prasse, Adithya Pratapa, Judita Preiss, Damith Premasiri, Priyanshu Priya, Irina Proskurina, Dongqi Pu, Xiao Pu, Yewen Pu, Giovanni Puccetti, Giulia Pucci, Ratish Puduppully, Haritz Puerto, Robert Pugh, Rajkumar Pu-jari, Adrien Pupier, Sukannya Purkayastha, Rifki Putri, Adarsh Pyarelal, Juan Antonio Pérez-Ortiz

Ayesha Qamar, Ehsan Qasemi, Haode Qi, Jianzhong Qi, Jiexing Qi, Qianqian Qi, Weizhen Qi, Yuankai Qi, Yunjia Qi, Chen Qian, Dong Qian, Haifeng Qian, Hongjin Qian, Kun Qian, Yushan Qian, Yusu Qian, Jipeng Qiang, Minjie Qiang, Lingfeng Qiao, Shuofei Qiao, Bowen Qin, Chengwei Qin, Jinghui Qin, Yanxia Qin, Haoyi Qiu, Jielin Qiu, Linlu Qiu, Shuwen Qiu, Xiaoyu Qiu, Zexuan Qiu, Zhaopeng Qiu, Muhammad Qorib, Fanyi Qu, Jin Qu, Lizhen Qu, Xiaoye Qu, Yanru Qu, Tho Quan, Selen Quiniou

Manikandan R, Ella Rabinovich, Davood Rafiei, Vipul Raheja, Hossein A. Rahmani, Sunny Rai, Vatsal Raina, Sara Rajaee, Abisek Rajakumar Kalarani, Kanagasabai Rajaraman, Shahab Raji, Ori Ram, Anand Ramachandran, Ramya Ramakrishnan, Owen Rambow, Aida Ramezani, Roshni Ramnani, Rita Ramos, Sanjana Ramprasad, Surangika Ranathunga, Anku Rani, Priya Rani, Sudhanshu Ranjan, Jaspreet Ranjit, Abhinav Rao, Dongning Rao, Farzana Rashid, Mohammad Mamun Or Rashid, Royi Rassin, Vipul Rathore, Mathieu Ravaut, Lohith Ravuru, Ambrish Rawat, Avik Ray, Sonia Raychaudhuri, Simon Razniewski, Evgeniia Razumovskaia, Chandan Reddy, Sandeep Reddy, Aishwarya Naresh Reganti, Abudurexiti Reheman, Emily Reif, Sebastian Reinmann, Ehud Reiter, Liliang Ren, Ruiyang Ren, Wendi Ren, Yubing Ren, Ann-Katrin Reuel, Mina Rezaei, Rezvaneh Rezapour, Saed Rezayi, Ryokan Ri, Caitlin Richter, Korbinian Riedhammer, Jonas Rieger, Matiss Rikters, Darcey Riley, Eric Ringger, Yara Rizk, Christophe Rodrigues, Juan Rodriguez, Melissa Roemmele, Paul Roit, Angelika Romanou, Keran Rong, Zhu Ronghang, Donya Rooein, Tanya Roosta, Christophe Ropers, Rudolf Rosa, Domenic Rosati, Germán Rosati, Carolyn Rose, Guy Rosin, Alexis Ross, Candace Ross, Robert Ross, Mohammad Rostami, Guy Rotman, Paul Rottger, Mozhdeh Rouhsedaghat, Dmitri Roussinov, Aurko Roy, Sumegh Roychowdhury, Lecheng Ruan, Qian Ruan, Rimvydas Rubavicius, William Rudman, Koustav Rudra, Frank Rudzicz, Daniel Ruffinelli, Federico Ruggeri, Ramon Ruiz-Dolz, Bharat Runwal, Josef Ruppenhofer, Jonathan Rusert, Stefan Ruseti, Phillip Rust, Elena Sofia Ruzzetti, Susanna Rücker

Sujay S Kumar, Arkadiy Saakyan, Anusha Sabbineni, Ashish Sabharwal, Ahmed Sabir, Sahand Sabour, Mobashir Sadat, Zahra Sadeghi, Nafis Sadeq, Philipp Sadler, Najmeh Sadoughi, Abdulfattah Safa, Ali Safaya, Mustafa Safdari, Horacio Saggion, Alsu Sagirova, Punyajoy Saha, Tulika

Saha, Sattvik Sahai, Oscar Sainz, Keisuke Sakaguchi, Yusuke Sakai, Ander Salaberria, Alireza Salemi, Alexandre Salle, Fahime Same, Farhan Samir, Abhilasha Sancheti, Abraham Sanders, Sourav Sanjukta Bhabesh, Brenda Santana, Sashank Santhanam, Andrea Santilli, Bishal Santra, Debarshi Sanyal, Soumya Sanyal, Irina Saparina, Abulhair Saparov, Leda Sari, Chayan Sarkar, Rajdeep Sarkar, Rupak Sarkar, Sheikh Muhammad Sarwar, Shota Sasaki, Msvpj Sathvik, Danielle Saunders, Beatrice Savoldi, Tomohiro Sawada, Apoorv Saxena, Michael Saxon, Asad Sayeed, Salim Sazzed, Shigehiko Schamoni, Emmanuel Schang, Yves Scherrer, Mauro Schilman, Andrea Schioppa, Jörg Schlötterer, Helmut Schmid, Laura Schmid, Fabian Schmidt, Robin Schmidt, Florian Schneider, Stephanie Schoch, Matthias Schubert, Hendrik Schuff, Björn Schuller, Claudia Schulz, Stefan Schweter, Pola Schwöbel, Simeon Schüz, Alessandro Scirè, Sedrick Scott Keh, Anastasiia Sedova, Amit Seker, Indira Sen, Jaydeep Sen, Apurbalal Senapati, Ayan Sengupta, Meghdut Sengupta, Rico Sennrich, Jaehyung Seo, Ronald Seoh, Kyu Seok Kim, Ovidiu Serban, Sofia Serrano, Christophe Servan, Mattia Setzu, Rita Sevastjanova, Agam Shah, Raj Shah, Shalin Shah, Dafna Shahaf, Md Shihab Shahriar, Chantal Shaib, Anastassia Shaitarova, Valerie Shalin, Weiqiao Shan, Chao Shang, Hengchao Shang, Junyuan Shang, Lanyu Shang, Wenbo Shang, Abhilash Shankarampetra, Chenze Shao, Huajie Shao, Yijia Shao, Yunfan Shao, Zhihong Shao, Eilam Shapira, Natalie Shapira, Ori Shapira, Abhishek Sharma, Aditya Sharma, Arpit Sharma, Ashish Sharma, Karishma Sharma, Kartik Sharma, Mayukh Sharma, Pratyusha Sharma, Rahul Sharma, Raksha Sharma, Saket Sharma, Soumya Sharma, Srinagesh Sharma, Shuaijie She, Ryan Shea, Zaid Sheikh, Ravi Shekhar, Bowen Shen, Hua Shen, Jiajun Shen, Jiaxin Shen, Li Shen, Linlin Shen, Mingwei Shen, Qinlan Shen, Siqi Shen, Tianhao Shen, Weizhou Shen, Xiangqing Shen, Yanming Shen, Yilin Shen, Zejiang Shen, Jiawei Sheng, Qiang Sheng, Quan Sheng, Yaqing Sheng, Tom Sherborne, Pranav Shetty, Chufan Shi, Haochen Shi, Haoran Shi, Haoyue Shi, Kai-ze Shi, Lei Shi, Lida Shi, Ning Shi, Peng Shi, Qi Shi, Shuhua Shi, Shuming Shi, Xiaoming Shi, Xingjian Shi, Yanzhao Shi, Yaorui Shi, Zhengliang Shi, Zhouxing Shi, Zijing Shi, Yong-Siang Shih, Kyuhong Shim, Shuichiro Shimizu, Anastasia Shimorina, Andrew Shin, Haebin Shin, Han-Chin Shing, Kazutoshi Shinoda, Takahiro Shinozaki, Kiyoaki Shirai, Prashant Shiralkar, Lidan Shou, Ziyi Shou, Anubhav Shrimal, Ayush Shrivastava, Ritvik Shrivastava, Yiheng Shu, Omer Shubi, Liu Shudong, Li Shujie, Vered Shwartz, Milind Shyani, Chenglei Si, Jiasheng Si, Qingyi Si, Shijing Si, Shuzheng Si, Anthony Sicilia, A.B. Siddique, Edoardo Signoroni, Sandipan Sikdar, Karan Sikka, Max Silberstein, Miikka Silfverberg, Chaklam Silpasuwanchai, Purificação Silvano, Robert Sim, Patrick Simianer, Gabriel Simmons, Antoine Simoulin, Apoorva Singh, Gagandeep Singh, Harman Singh, Ishika Singh, Mayank Singh, Mukul Singh, Saksham Singhal, Sneha Singhania, Iustin Sirbu, Kairit Sirts, Jasivan Sivakumar, Steven Skiena, Gabriella Skitalinskaya, Milena Slavcheva, Aviv Slobodkin, Răzvan-Alexandru Smădu, Vésteinn Snæbjarnarson, Daria Soboleva, Jy-Yong Sohn, Mohammad Sohrab, Amir Soleimani, Mohammad Soleymani, Veronika Solopova, Junyoung Son, Youngseo Son, Truong Son Hy, Morgan Sonderegger, Chiyu Song, Dandan Song, Demin Song, Haiyue Song, Hwanjun Song, Hyun-Je Song, Jiayu Song, Kaiqiang Song, Kaitao Song, Lingyun Song, Linxin Song, Mingyang Song, Ran Song, Shuangyong Song, Xiaoshuai Song, Yaoxian Song, Yifan Song, Yixiao Song, Zhenqiao Song, Ziang Song, Sandeep Soni, Sarvesh Soni, Ekta Sood, Alexey Sorokin, Tiberiu Sosea, Xabier Soto, Alexander Spangher, Makesh Narsimhan Sreedhar, Rohit Sridhar, Rohini Srihari, Mukund Srinath, Tejas Srinivasan, Vijay Srinivasan, Aarohi Srivastava, Saurabh Srivastava, Vivek Srivastava, Joe Stacey, Felix Stahlberg, Ieva Staliunaite, Dominik Stammbach, Marija Stanojevic, Milos Stanojevic, Katherine Stasaski, Julius Steen, Katharina Stein, Hannah Sterz, Samuel Stevens, Mark Stevenson, Ian Stewart, Shane Storks, Svetlana Stoyanchev, Kristina Striegnitz, Markus Strohmaier, Florian Strub, Phillip Ströbel, Hang Su, Hsuan Su, Hung-Ting Su, Jianlin Su, Jinsong Su, Jinyan Su, Ruolin Su, Sheng Su, Xiangdong Su, Xin Su, Yi Su, Ying Su, Zhaochen Su, Zhaolun Su, Melanie Subbiah, Anand Subramanian, Yui Sudo, Katsuhito Sudoh, Hiroaki Sugiyama, Alessandro Suglia, Elior Sulem, Anna Sun, Bin Sun, Chenkai Sun, Fei Sun, Haifeng Sun, Hao Sun, Jiacheng Sun, Jian Sun, Jiao Sun, Jiashuo Sun, Jingyuan Sun, Kexuan Sun, Qiang Sun, Qingfeng Sun, Qiushi Sun, Renliang Sun,

Rui Sun, Shichao Sun, Si Sun, Tianxiang Sun, Weiqi Sun, Weisong Sun, Xiaobing Sun, Yajing Sun, Yuanyuan Sun, Yutao Sun, Yuxi Sun, Zequn Sun, Zhaoyue Sun, Zhe Sun, Zhewei Sun, Megha Sundriyal, Yoo Yeon Sung, Yucheng Suo, Marek Suppa, Xi Susie Rao, Reem Suwaileh, Anej Svete, Alexey Svyatkovskiy, Shahbaz Syed, Stan Szpakowicz, Piotr Szymański, Eduardo Sánchez, Felipe Sánchez-Martínez, Gözde Şahin

Santosh T.Y.S.S, Anaïs Tack, Prasad Tadepalli, Shabnam Tafreshi, Sho Takase, Takehiro Takayanagi, Kunihiro Takeoka, Yik-Cheung Tam, Pradyumna Tambwekar, Aniruddha Tammewar, Chao-Hong Tan, Fei Tan, Fiona Tan, Haochen Tan, Hongye Tan, Minghuan Tan, Qingyu Tan, Shaomu Tan, Weiting Tan, Xiaoqing Tan, Xingwei Tan, Zeqi Tan, Zhaoxuan Tan, Zhen Tan, Zhi Qin Tan, Zhixing Tan, Buzhou Tang, Gongbo Tang, Jianheng Tang, Liyan Tang, Pengfei Tang, Qingming Tang, Siliang Tang, Xuemei Tang, Yixuan Tang, Yixuan Tang, Yun Tang, Yuqing Tang, Zheng Tang, Zhengyang Tang, Zhiwen Tang, Ludovic Tanguy, Kumar Tanmay, Chaofan Tao, Chongyang Tao, Dehao Tao, Xiaohui Tao, Xijia Tao, Zhuo Tao, Sandeep Tata, Yuka Tateisi, Tarun Tatter, Christopher Tauchmann, Sayed Mohammadreza Tayaranian Hosseini, Stephen Taylor, Andon Tchechmedjiev, Simone Tedeschi, Atula Tejaswi Neerkaje, Selma Tekir, Chong Teng, Christopher Tensmeyer, Maartje Ter Hoeve, Dung Thai, Katherine Thai, Parth Thakkar, Nandan Thakur, Surendrabikram Thapa, Avijit Thawani, Menasha Thilakaratne, Raghuveer Thirukovalluru, Terne Thorn Jakobsen, Camilo Thorne, David Thulke, Ran Tian, Xuetao Tian, Yanzhi Tian, Yuan Tian, Yufei Tian, Anna Tigunova, Prayag Tiwari, Vanessa Toborek, Katrin Tomanek, Gaurav Singh Tomar, Lingbo Tong, Xiaoyu Tong, Yu Tong, Manuel Tonneau, Marwan Torki, Shubham Toshniwal, Samia Touileb, Ke Tran, Khiem Tran, Khoi-Nguyen Tran, Thanh Tran, Dietrich Trautmann, Sony Trenous, Bayu Trisedya, Harsh Trivedi, Thinh Truong, Dimitrios Tsarapatsanis, Talia Tseriotou, Ioannis Tsiamas, Yuiko Tsunomori, Akim Tsvigun, Olga Tsymboi, Geng Tu, Haoqin Tu, Hongkui Tu, Jingxuan Tu, Shangqing Tu, Yi Tu, Yunbin Tu, Zhucheng Tu, Yi-Lin Tuan, Crina Tudor, Gokhan Tur, Aman Tyagi, Utkarsh Tyagi

Adaku Uchendu, Takuma Udagawa, Saad Ul Islam, Adrian Ulges, Inigo Unanue, Rishabh Upadhyay, Sagar Uprety, Ashok Urlana, Asahi Ushio, David Uthus, Saiteja Utpala, Ahmet Üstün

Robert Vacareanu, Ashwini Vaidya, Nidhi Vakil, Mojtaba Valipour, Jannis Vamvas, Michiel Van Der Meer, Carel Van Niekerk, Shivasankaran Vanaja Pandi, Natalia Vanetik, Rufin Vanrullen, Andrea Vanzo, Vasudha Varadarajan, Maya Varma, Oleg Vasilyev, Peerapon Vateekul, Artem Vazhentsev, Eva Vecchi, Nikhita Vedula, Aditya Srikanth Veerubhotla, Erik Velldal, Saranya Venkatraman, Subhashini Venugopalan, Jithendra Vepa, Apurv Verma, Ashish Verma, Neha Verma, Rajeev Verma, Giorgos Vernikos, Federica Vezzani, Prashanth Vijayaraghavan, Dan Vilenchik, Luke Vilnis, Krishnapriya Vishnubhotla, Vijay Viswanathan, Juraj Vladika, Ngoc Phuoc An Vo, Rob Voigt, Sergey Volokhin, Pius Von Däniken, Trang Vu, Yogarshi Vyas

Bruce W Lee, Lennart Wachowiak, Yuiga Wada, David Wadden, Kahini Wadhawan, Rohan Wadhawan, Somin Wadhwa, Eitan Wagner, Abdul Waheed, Jan Philip Wahle, Eric Peter Wairagala, Hiromi Wakaki, Tom Wallenstein, David Wan, Herun Wan, Huaiyu Wan, Ruyuan Wan, Stephen Wan, Xingchen Wan, Yixin Wan, Zhen Wan, Zhongwei Wan, An Wang, Bang Wang, Barry Wang, Benyou Wang, Bingbing Wang, Bingqing Wang, Bo Wang, Boshi Wang, Bowen Wang, Chaojun Wang, Chenglong Wang, Chenguang Wang, Chenhao Wang, Chu Wang, Cunxiang Wang, Daling Wang, Danding Wang, Deqing Wang, Fan Wang, Fanyu Wang, Gang Wang, Guangtao Wang, Hai Wang, Haibin Wang, Haiming Wang, Han Wang, Hao Wang, Haobo Wang, Haochun Wang, Haodong Wang, Haoyu Wang, Haoyu Wang, Haozhao Wang, Hongfei Wang, Hongru Wang, Hongyu Wang, Houfeng Wang, Huadong Wang, Huimin Wang, Jenq-Haur Wang, Jia-Ning Wang, Jiaan Wang, Jian Wang, Jiapeng Wang, Jiashuo Wang, Jiayi Wang, Jin Wang, Jingwen Wang, Jinpeng Wang, Jinyuan Wang, Jiongxiao Wang, Jiquan Wang, Juanyan Wang, Jun Wang, Jun-

jie Wang, Junlin Wang, Junxiong Wang, Junyang Wang, Kexin Wang, Le Wang, Lean Wang, Lei Wang, Li Wang, Liang Wang, Lin Wang, Lingzhi Wang, Linlin Wang, Longzheng Wang, Lucy Wang, Meng Wang, Mengxiang Wang, Mingqiu Wang, Mingyang Wang, Nan Wang, Nan Wang, Peng Wang, Pidong Wang, Pinzheng Wang, Qiang Wang, Renxi Wang, Rui Wang, Ruili Wang, Ruize Wang, Runhui Wang, Shaojun Wang, Shih-Heng Wang, Shiqi Wang, Shuai Wang, Shuo Wang, Shuhuan Wang, Siyuan Wang, Song Wang, Tianduo Wang, Tiannan Wang, Wei Wang, Weiyue Wang, Weizhi Wang, Wen Wang, Wenjie Wang, Wenxuan Wang, Xi Wang, Xiao Wang, Xiaosen Wang, Xiaoxuan Wang, Xiaoyang Wang, Xiaoying Wang, Xiaoyu Wang, Xin Wang, Xindi Wang, Xingyao Wang, Xintong Wang, Xinyu Wang, Xiting Wang, Yadao Wang, Yanhao Wang, Yaqiang Wang, Yejie Wang, Yibo Wang, Yicheng Wang, Yidong Wang, Yihan Wang, Yijue Wang, Yikun Wang, Yimu Wang, Yingyao Wang, Yiran Wang, Yiwei Wang, Yu Wang, Yuanxin Wang, Yuechen Wang, Yueqian Wang, Yufei Wang, Yujie Wang, Yun Cheng Wang, Yusong Wang, Yutong Wang, Yuxiang Wang, Yuxuan Wang, Zekun Wang, Zekun Wang, Zeyu Wang, Zhanyu Wang, Zhaowei Wang, Zhecan Wang, Zhen Wang, Zhengyang Wang, Zhichun Wang, Zhilin Wang, Zhiruo Wang, Zhizheng Wang, Zhuoer Wang, Ziao Wang, Zichao Wang, Zifeng Wang, Zihan Wang, Zihan Wang, Zihao Wang, Zihua Wang, Zili Wang, Ziqi Wang, Zixu Wang, Wei Wang., Dittaya Wanvarie, Nigel Ward, Julia Watson, Lucas Weber, Albert Webson, Bifan Wei, Johnny Wei, Kangda Wei, Penghui Wei, Sheng-Lun Wei, Tingxin Wei, Xiang Wei, Xiuying Wei, Yifan Wei, Zhihua Wei, Maxwell Weinzierl, Gail Weiss, Leonie Weissweiler, Jiaxin Wen, Liang Wen, Yanlong Wen, Zhihao Wen, Yixuan Weng, Alexander Wettig, Philipp Wicke, Rachel Wicks, Gregor Wiedemann, Michael Wiegand, Matti Wiegmann, Matthew Wiesner, Thilini Wijesiriwardene, Gijs Wijnholds, Ethan Wilcox, Alex Wilf, Miles Williams, Dane Williamson, Genta Winata, Shuly Wintner, Guillaume Wisniewski, Michael Witbrock, Robert Wolfe, Christian Wolff, Cliff Wong, Ka-Chun Wong, Dina Wonsever, Phil Woodland, Marcel Worrинг, Dustin Wright, Ben Wu, Biniao Wu, Bobby Wu, Chen Wu, Chen Wu, Cheng-Kuang Wu, Chenming Wu, Chuhan Wu, Dennis Wu, Di Wu, Di Wu, Fanyou Wu, Han Wu, Han Wu, Hanming Wu, Haoran Wu, Haoyi Wu, Hongqiu Wu, Huijia Wu, Ji Wu, Jialin Wu, Jialong Wu, Jiaman Wu, Jinge Wu, Junda Wu, Junjie Wu, Junru Wu, Kechun Wu, Linjuan Wu, Linzhi Wu, Mengyue Wu, Minghao Wu, Qianhui Wu, Qingyang Wu, Qiyu Wu, Shengqiong Wu, Shih-Hung Wu, Shu Wu, Siwei Wu, Sixing Wu, Taiqiang Wu, Te-Lin Wu, Tianxiang Wu, Tianxing Wu, Tongtong Wu, Weiqi Wu, Wen Wu, Xian Wu, Xianchao Wu, Xin Wu, Xueqing Wu, Yangyu Wu, Yating Wu, Yiquan Wu, Yuanbin Wu, Yufan Wu, Yuping Wu, Yuting Wu, Yuxia Wu, Zhaofeng Wu, Zhen Wu, Zhengxuan Wu, Zhijing Wu, Zhuofeng Wu, Zichen Wu, Zongyu Wu

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**Keynote**  
**Does In-Context-Learning Offer the Best Tradeoff in  
Accuracy, Robustness, and Efficiency for Model Adaptation?**

**Sunita Sarawagi**  
Indian Institute of Technology Bombay, India



**08/12/2024 – Time: 09:30 - 10:30 – Room: Convention Center B1**

**Abstract:** Adapting a model trained on vast amounts of data to new tasks with limited labeled data has long been a challenging problem, and over the years, a diverse range of techniques have been explored. Effective model adaptation requires achieving high accuracy through task-specific specialization without forgetting previous learnings, robustly handling the high variance from limited task-relevant supervision, and doing so efficiently with minimal compute and memory overheads. Recently, large language models (LLMs) have demonstrated remarkable ease of adaptation to new tasks with just a few examples provided in context, without any explicit training for such a capability. Puzzled by this apparent success, many researchers have sought to explain why in-context learning (ICL) works, but we still have only an incomplete understanding. In this talk, we examine this emerging phenomenon and assess its potential to meet our longstanding model adaptation goals in terms of accuracy, robustness, and efficiency.

**Bio:** Sunita Sarawagi researches in the fields of databases, machine learning, and applied NLP. She got her PhD in databases from the University of California at Berkeley and a bachelors degree from IIT Kharagpur. She has also worked at Google Research, CMU, and IBM Almaden Research Center. She is an ACM fellow, was awarded the Infosys Prize in 2019 for Engineering and Computer Science, and the distinguished Alumnus award from IIT Kharagpur. She has several publications in database, machine learning, and NLP conferences including notable paper awards at ACM SIGMOD, ICDM, and NeurIPS conferences.

# Keynote

## Can LLMs Reason and Plan?

**Subbarao Kambhampati**  
Arizona State University, USA



**08/13/2024 – Time: 09:00 - 10:00 – Room: Convention Center B1**

**Abstract:** Large Language Models (LLMs) are on track to reverse what seemed like an inexorable shift of AI from explicit to tacit knowledge tasks. Trained as they are on everything ever written on the web, LLMs exhibit “approximate omniscience”—they can provide answers to all sorts of queries, but with nary a guarantee. This could herald a new era for knowledge-based AI systems—with LLMs taking the role of (blowhard?) experts. But first, we have to stop confusing the impressive style/form of the generated knowledge for correct/factual content, and resist the temptation to ascribe reasoning, planning, self-critiquing etc. powers to approximate retrieval by these n-gram models on steroids. We have to focus instead on LLM-Modulo techniques that complement the unfettered idea generation of LLMs with careful vetting by model-based verifiers (the models underlying which themselves can be teased out from LLMs in semi-automated fashion). In this talk, I will reify this vision and attendant caveats in the context of our ongoing work on understanding the role of LLMs in planning tasks.

**Bio:** Subbarao Kambhampati is a professor of computer science at Arizona State University. Kambhampati studies fundamental problems in planning and decision making, motivated in particular by the challenges of human-aware AI systems. He is a fellow of Association for the Advancement of Artificial Intelligence, American Association for the Advancement of Science, and Association for Computing Machinery. He served as the president of the Association for the Advancement of Artificial Intelligence, a trustee of the International Joint Conference on Artificial Intelligence, the chair of AAAS Section T (Information, Communication and Computation), and a founding board member of Partnership on AI. Kambhampati’s research as well as his views on the progress and societal impacts of AI have been featured in multiple national and international media outlets. He can be followed on Twitter @rao2z.

# Keynote

## Are LLMs Narrowing Our Horizon? Let's Embrace Variation in NLP!

**Barbara Plank**

Ludwig Maximilian University of Munich, Germany



**08/14/2024 – Time: 09:00 - 10:00 – Room: Convention Center B1**

**Abstract:** NLP research has made significant progress, and our community's achievements are becoming deeply integrated in society. The recent paradigm shift due to rapid advances in Large Language Models (LLMs) offers immense potential, but also led NLP to become more homogeneous. In this talk, I will argue for the importance of embracing variation in research, which will lead to more innovation, and in turn, trust. I will give an overview of current challenges and show how they led to the loss of trust in our models. To counter this, I propose to embrace variation in three key areas: inputs to models, outputs of models and research itself. Embracing variation holistically will be crucial to move our field towards more trustworthy human-facing NLP.

**Bio:** Barbara Plank is Professor and co-director of the Center for Information and Language Processing at LMU Munich. She holds the Chair for AI and Computational Linguistics at LMU Munich and is an affiliated Professor at the Computer Science department at the IT University of Copenhagen. Her MaiNLP research lab (Munich AI and NLP lab, pronounced “my NLP”) focuses on robust machine learning for Natural Language Processing with an emphasis on human-inspired and data-centric approaches. Her research has been funded by distinguished grants, including an Amazon Research Award (2018), the Danish Research Council (Sapere Aude Research Leader Grant, 2020-2024), and the European Research Council (ERC Consolidator Grant, 2022-2027). Barbara is a Scholar of ELLIS (the European Laboratory for Learning and Intelligent Systems) and regularly serves on international committees, including the Association for Computational Linguistics (ACL), the European Chapter of the ACL, and the Northern European Association for Language Technology (NEALT).

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## **Program**

**Saturday, August 10, 2024**

14:00 - 19:00      *Registration*

**Sunday, August 11, 2024**

07:30 - 20:30     *Registration Check in*

10:30 - 11:00     *Break*

12:30 - 14:00     *Box Lunch Provided*

15:30 - 16:00     *Break*

18:30 - 21:00     *Welcome Reception*

**Monday, August 12, 2024**

07:30 - 16:30      *Registration*

09:00 - 10:30      *Session 1: Plenary - Opening Session & Keynote TBA*

10:30 - 11:00      *Break*

11:00 - 12:30      *Session 2: Oral's/Posters/ Demo Presentations A*

12:45 - 13:45      *Session 3: Finding Presentations 1*

14:00 - 15:30      *Session 4: Oral's/Posters/ Demo Presentations B*

15:30 - 16:00      *Break*

16:00 - 17:30      *Session 5: Oral's/Posters/ Demo Presentations C*

17:45 - 18:45      *Session 6: Findings Presentations 2*

**Tuesday, August 13, 2024**

- 08:30 - 16:30     *Registration*
- 09:00 - 10:00     *Session 7: Plenary - Keynote TBA*
- 10:00 - 10:30     *Break*
- 10:30 - 12:00     *Session 8: Oral's/Posters/ Demo Presentations D*
- 12:15 - 13:15     *Session 9: Finding Presentations 3*
- 13:00 - 14:00     *Session 10: Plenary - Business Meeting (all attendees welcome)*
- 14:30 - 15:30     *Session 11: Plenary - Panel*
- 15:30 - 16:00     *Break*
- 16:00 - 17:30     *Session 12: Oral's/Posters/ Demo Presentations E*
- 19:00 - 22:00     *Social Event Dinner*

**Wednesday, August 14, 2024**

- 08:30 - 16:30     *Registration*
- 09:00 - 10:00     *Session 13: Plenary - Keynote TBA*
- 10:00 - 10:30     *Break*
- 10:30 - 12:00     *Session 14: Oral's/Posters/ Demo Presentations F*
- 12:15 - 13:15     *Session 15: Finding Presentations 4*
- 13:30 - 15:00     *Session 16: Plenary - Lifetime Achievement & ToT Awards*
- 15:00 - 15:30     *Break*
- 15:30 - 17:00     *Session 17: Plenary - Paper Awards*
- 17:15 - 18:00     *Session 18: Plenary - Closing Session*