# Proceedings of the Fortieth Conference on Uncertainty in Artificial Intelligence

## Preface

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## UAI 2024

**Introduction**  The Conference on Uncertainty in Artificial Intelligence (UAI) is one of the premier international conferences on research related to knowledge representation, learning, and reasoning in the presence of uncertainty. UAI is supported by the Association for Uncertainty in Artificial Intelligence (AUAI).

The 40th edition of the conference (UAI 2024) took place from July 15 to 19, 2024. It was held at the Universitat Pompeu Fabra, Barcelona, Spain.

**Accepted papers and reviewing**  We received 744 full submissions, of which 29 were desk-rejected and 95 were withdrawn, and 200 were ultimately accepted. This volume features all accepted papers. The program committee consisted of two chairs, 96 senior (area chairs) and 733 regular members. All submitted papers had at least three reviews, and the large majority (92%) had four or five. The reviewing process was double-blind. The authors could provide a rebuttal to the reviews and there was a discussion phase. The senior members rated the reviews and ultimately 50 reviewers were nominated by area chairs as "top reviewer".

**On-line participation**  We allowed for online participation. Online participants could both access and present oral and spotlight presentations via zoom. Gather.town was used for poster presentations.

**Participants**  There were 439 registrations (391 in-person, 48 online) from at least 36 countries. Nearly half of these were student registrations.

**The program**  The main program took place from July 16 to 18. Each day's program was single-track, and was composed of a keynote talk and two oral sessions, each featuring three or four paper presentations. Days 1 and 3 of the conference also included a poster session and a spotlight session. On day 2 a hybrid poster session and town hall meeting were held. A conference banquet followed the town hall meeting.

We were glad to have had the following keynote speakers:

- Nicolò Cesa-Bianchi, Università degli Studi di Milano e Politecnico di Milano, Italy

- Dominik Janzing, Amazon Research, Germany

- Vanessa Didelez, Leibniz Institute for Prevention Research and Epidemiology - BIPS, Bremen, Germany

All accepted papers had a poster. Oral talks were allocated 20 minutes for presentation and 4 minutes for Q&A with the author (also accommodating questions from online participants). Spotlight talks lasted 3 minutes.

On July 15, there were four tutorials, two in parallel in the morning and two in parallel in the afternoon:

- Tutorial 1: An introduction to Performative Prediction

- Tutorial 2: Causal Graphical Methods For Handling Nonignorable Missing Data

- Tutorial 3: Distribution-Free Predictive Uncertainty Quantification: Strengths and Limits of Conformal Prediction

- Tutorial 4: Geometric Probabilistic Models

- Tutorial 5: Recent Advances of Statistical Reinforcement Learning

On July 19, there were three workshops in parallel:

- Workshop 1: Causal Inference

- Workshop 2: Causal Inference for Time Series Data

- Workshop 3: Tractable Probabilistic Modeling: Models We Trust

**Outstanding paper awards**   The following two papers have received an award:

- Outstanding paper:
  - "Approximate Bayesian Computation with Path Signatures", by Joel Dyer, Patrick Cannon, and Sebastian M. Schmon
- Outstanding student paper:
  - "Learning Accurate and Interpretable Decision Trees", by Maria Florina Balcan and Dravyansh Sharma

## Organizing Committee

The main organizing committee consisted of the following people:

### General Chairs

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- Ilya Shpitser, *Johns Hopkins University, USA*

### Program Chairs

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- Bo Li, *University of Chicago, USA*
- Tan Nguyen, *National University of Singapore, SG*

**Program Committee**   Without the volunteers in the program committee, the conference would not have been possible. We are extremely grateful for the efforts of all its members. The senior members of the program committee are listed in Table 1. The regular members of the program committee are listed in Table 2, where top reviewers' names are in bold.

## Acknowledgements

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Table 1: The senior members of the program committee.

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| Baijiong Lin | *The Hong Kong University of Science and Technology (Guangzhou)* |

Table 2: The members of the program committee (top reviewers **in bold**) — *continued*.

| | |
|---|---|
| Akifumi Okuno | *The Institute of Statistical Mathematics, Japan* |
| Jia Liu | *The Ohio State University* |
| Ihsen Alouani, Jesus Martinez del Rincon | *The Queen's University Belfast* |
| Nirmalie Wiratunga | *The Robert Gordon University* |
| Erdun Gao | *The University of Adelaide* |
| Houston Warren, Suqin Yuan, Yongcheng Jing | *The University of Sydney* |
| Sahil Sidheekh, Shivvrat Arya | *The University of Texas at Dallas* |
| Yuexia Zhang | *The University of Texas at San Antonio* |
| Haruo Hosoya, **Yu-Jie Zhang** | *The University of Tokyo* |
| Leonard Poon | *Thomson Reuters* |
| Praveen Narayanan | *Torc Robotics* |
| Jiashuo Liu, Naiqi Li, Pihe Hu, Shuai Li, Weihao Xia, Wenjie Li, Yue Gao, Yue He | *Tsinghua University* |
| Zhongjie Yu | *TU Darmstadt* |
| **Vaidyanathan Peruvemba Ramaswamy** | *TU Wien Vienna University of Technology* |
| Enrique Miranda, Ignacio Montes | *Universidad de Oviedo* |
| Iñaki Inza | *Universidad del País Vasco* |
| **Javier Larrosa** | *Universidad Politécnica de Cataluna* |
| Ángel Aso-Mollar, Eva Onaindia | *Universidad Politècnica de València* |
| Marcelo Finger | *Universidade de São Paulo* |
| Evandro de Barros Costa | *Universidade Federal de Alagoas* |
| Daniel R. Figueiredo | *Universidade Federal do Rio de Janeiro* |
| Christine W. Bang | *Universität Bremen* |
| Gherardo Varando | *Universitat de Valencia* |
| Ralf Möller | *Universität Hamburg* |
| Christian T Brownlees, Jack Jewson, Lorenzo Cappello, Paul Rognon-Vael, Vicenç Gómez | *Universitat Pompeu Fabra* |
| Maciej Liskiewicz | *Universität zu Lübeck* |
| Andrea G. B. Tettamanzi | *Université Côte d'Azur* |
| **Marc Legeay** | *Université d'Angers* |
| Salem Benferhat | *Université d'Artois* |
| Abdel-illah Mouaddib | *Université de Caen Basse Normandie* |
| **Matthew James Vowels** | *Université de Lausanne* |
| **Christine Sinoquet** | *Université de Nantes* |
| Christophe Denis | *Université Paris-Est* |
| **Thomas Mortier** | *Universiteit Gent* |
| Andrea Visentin, Barry O'Sullivan, Hoang D. Nguyen | *University College Cork* |
| Leonard Henckel | *University College Dublin* |
| Ben Deaner, Hai Wang, James Briant, Jialin Yu, Martin Ferianc, **Mirco Musolesi**, Nicola Gnecco, Victory Idowu | *University College London* |
| Ehsan Futuhi, Hongming Zhang, Ke Sun, Lili Mou, Nidhi Hegde, Tianpei Yang, Zixin Zhong | *University of Alberta* |
| Danru Xu, David Ruhe, Dharmesh Tailor, **Leon Lang**, Masoud Mansoury, Mátyás Schubert, Philip Boeken, Philip Versteeg, Rajeev Verma, Ronald de Haan, Samuele Papa, Sander Beckers, Sourbh Bhadane, Wenzhe Yin, Yongtuo Liu | *University of Amsterdam* |
| Frank-Michael Schleif | *University of Applied Sciences Wuerzburg-Schweinfurt* |
| Donato Malerba | *University of Bari* |
| Pekka Parviainen | *University of Bergen* |
| Andrea Agiollo, Andrea Omicini, Michele Lombardi | *University of Bologna* |
| Laurent Simon | *University of Bordeaux* |
| Bingshan Hu, Johnny Xi, Sadegh Mahdavi | *University of British Columbia* |
| Gianluigi Greco | *University of Calabria* |
| Mohammed Adnan | *University of Calgary / Vector Institute* |
| **Benjamin Plaut** | *University of California, Berkeley* |
| Xin Liu | *University of California, Davis* |

Table 2: The members of the program committee (top reviewers **in bold**) — *continued*.

| | |
|---|---|
| Bobak Pezeshki, Gavin Kerrigan, Sakshi Agarwal, Tianbing Xu | *University of California, Irvine* |
| Jiafan He, Namjoon Suh, Poorva Garg, Roshni Iyer, Shuang Wu, Xiaofeng Lin, Yizuo Chen, Yujia Shen, Zhe Zeng | *University of California, Los Angeles* |
| Fivos Kalogiannis, Har Simrat Singh, Jacob Imola, Xinyue Wang, Yi Hao | *University of California, San Diego* |
| Jayanth Yetukuri | *University of California, Santa Cruz* |
| Francisco Vargas, Marcin B. Tomczak, Sébastien Bratières | *University of Cambridge* |
| M. Julia Flores | *University of Castilla - La Mancha* |
| Amrit Singh Bedi | *University of Central Florida* |
| Boxin Zhao, Christian Cianfarani, Wenxin Ding | *University of Chicago* |
| Esther Rolf | *University of Colorado at Boulder* |
| Ying Zhou | *University of Connecticut* |
| Jeffrey Adams | *University of Copenhagen* |
| Sofia Triantafillou | *University of Crete* |
| Nikolay Malkin, Xin Du | *University of Edinburgh* |
| Decui Liang | *University of Electronic Science and Technology of China* |
| Damiano Azzolini, Elena Bellodi, Riccardo Zese | *University of Ferrara* |
| Alin Dobra | *University of Florida* |
| Stephane Marchand-Maillet | *University of Geneva, Switzerland* |
| Rosanna Turrisi | *University of Genova* |
| Ayesha Ali | *University of Guelph* |
| Arto Klami, Bernardo Williams, Elias Jääsaari, Indre Zliobaite, **Jeremias Berg**, Juha Harviainen, Nasrulloh Ratu Bagus Satrio Loka, Petrus Mikkola | *University of Helsinki* |
| Yunwen Lei | *University of Hong Kong* |
| Mikhail Mekhedkin Meskhi | *University of Houston* |
| Abhishek Kumar Umrawal, Bin Hu, Cong Xie, Eyal Amir, Haohan Wang, Rohan Deb, Runxiang Cheng, Tiancheng Qin, Yihan Du | *University of Illinois Urbana-Champaign* |
| Ragib Ahsan, Zhongkai Wen, Zishun Yu | *University of Illinois, Chicago* |
| **Santtu Henrik Tikka** | *University of Jyväskylä* |
| Michele Caprio | *University of Manchester* |
| Xiangyu Liu, Zhenyi Wang | *University of Maryland, College Park* |
| Xutong Liu | *University of Massachusetts at Amherst* |
| Aoqi Zuo, Feng Liu | *University of Melbourne* |
| Alexander Rodríguez, Fan Bu, Lai Wei, Zixian Yang | *University of Michigan, Ann Arbor* |
| Juliette Achddou | *University of Milan* |
| Fabio Stella, Rafael Peñaloza | *University of Milan-Bicocca* |
| Hengkang Wang, Taihui Li | *University of Minnesota, Minneapolis* |
| Bryan Andrews, Erich Kummerfeld, Gaoxiang Luo, Yash Travadi | *University of Minnesota, Twin Cities* |
| Nicolas Gillis | *University of Mons* |
| Bibek Upadhayay | *University of New Haven* |
| Krishna C Kalagarla | *University of New Mexico* |
| Patrick Lederer | *University of New South Wales* |
| Weijia Zhang | *University of Newcastle* |
| Chao Lan, Yiting Cao | *University of Oklahoma* |
| Thanh Hong Nguyen | *University of Oregon* |
| **Johan Pensar** | *University of Oslo* |
| David Parker, Gabriel Santos, **Michael Benedikt** | *University of Oxford* |
| Alberto Roverato | *University of Padua* |
| Buyun Liang, **Duc Nguyen**, **Georgy Noarov**, Guilherme Duarte, Huan He, Ira Globus-Harris, Shayan Kiyani | *University of Pennsylvania* |
| Elena Stanghellini | *University of Perugia* |
| Riccardo Massidda, Salvatore Ruggieri | *University of Pisa* |
| Eric Strobl, Jungtaek Kim, Shengyu Chen, Tianjiao Chu | *University of Pittsburgh* |

Table 2: The members of the program committee (top reviewers **in bold**) — *continued*.

| | |
|---|---|
| Jaime S Cardoso | *University of Porto* |
| Vincenzo Auletta | *University of Salerno* |
| Hu Ding, Tian Qin | *University of Science and Technology of China* |
| Gunwoong Park | *University of Seoul* |
| Michael Thomas Smith | *University of Sheffield* |
| Lin Liu | *University of South Australia* |
| Dhruva Kartik, **Erdem Biyik**, Kallirroi Georgila, Pierluigi Nuzzo, Xinwei Zhang, Yinbin Han, Zeman Li, Zijun Cui | *University of Southern California* |
| Melih Kandemir, Yi-Shan Wu | *University of Southern Denmark - SDU* |
| Lu Yin | *University of Surrey* |
| Kim Bente, Muyang Li, Runnan Chen, Xiu-Chuan Li, Yu Yao, Zhuo Huang, Ziming Hong | *University of Sydney* |
| Junyu Xuan, Maoying Qiao, Zhen Fang | *University of Technology Sydney* |
| Ngoc Mai Tran, Soumyajit Gupta | *University of Texas, Austin* |
| Rohith Peddi, Yapeng Tian | *University of Texas, Dallas* |
| Vladik Kreinovich | *University of Texas, El Paso* |
| Hengchao Chen, Paulius Dilkas, Roger Baker Grosse, Yaqi Shi | *University of Toronto* |
| Paolo Morettin | *University of Trento* |
| Konstantin Genin, Ralf Eggeling | *University of Tuebingen* |
| Shaocong Ma, Wai Yin Lam | *University of Utah* |
| **Simon Rittel** | *University of Vienna* |
| Arshdeep Sekhon, Zhe Wang | *University of Virginia* |
| Xingyu Zhao | *University of Warwick* |
| Conor Mayo-Wilson, Liyao Gao, Wenyu Chen, Zhaoqi Li | *University of Washington* |
| Ahmad Rashid | *University of Waterloo* |
| Daniel J Lizotte | *University of Western Ontario* |
| Subhojyoti Mukherjee, Zheyang Xiong | *University of Wisconsin, Madison* |
| Niklas Wahlström | *Uppsala University* |
| Massimo Poesio, **Thijs van Ommen** | *Utrecht University* |
| Taylor T Johnson, Tianshu Bao | *Vanderbilt University* |
| Diederik M Roijers | *Vrije Universiteit Brussel* |
| Hang Thi-Thuy Le | *Washington State University* |
| Sixie Yu | *Washington University, St. Louis* |
| Avikalp Srivastava, Khaled S. Refaat | *Waymo LLC* |
| Dongmo Zhang | *Western Sydney University* |
| Tanya Braun | *Westfälische Wilhelms-Universität Münster* |
| Lucas Kook | *Wirtschaftsuniversität Wien* |
| Badong Chen, Jihua Zhu, Xiangyong Cao | *Xi'an Jiaotong University* |
| Yunlong Liu | *Xiamen University* |
| Cheng Deng, Dawei Zhou, Ziyu Guan | *Xidian University* |
| Fangting Zhou | *Yale University* |
| Sung-Bae Cho | *Yonsei University* |
| Kun Yue, Liang Duan | *Yunnan University* |
| Hao Zou | *ZGC laboratory* |
| Junhong Lin, Kun Kuang, Tongtian Zhu, Yao-Xiang Ding | *Zhejiang University* |
| Huan Zhang | *Zhengzhou University* |