

AISTATS2019

The 22nd International Conference on Artificial Intelligence and Statistics April 16 - 18, 2019, Naha, Okinawa, Japan

Program Co-chairs

Kamalika Chaudhuri (University of California, San Diego)
Masashi Sugiyama (RIKEN and University of Tokyo)

Welcome to AISTATS2019!

Since its inception in 1985, AISTATS has been an interdisciplinary gathering of researchers at the intersection of artificial intelligence, machine learning, statistics, and related areas.



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 (Nagoya Institute of Technology and RIKEN)



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- Makoto Yamada (Kyoto University and RIKEN)



- Purna Sarkar (University of Texas at Austin)
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- Publicity Chair

Daniel Hsu (Columbia University)









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- Amin Karbasi (Yale University)
- Amir Globerson (Tel Aviv University, Google)
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- Andrew Gordon Wilson (Cornell University)
- Andriy Mnih (DeepMind)
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- Dustin Tran (Columbia University)
- Edwin Bonilla (Data61)
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- Francesco Orabona (Boston University)
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- Hossein Mobahi (Google Research)
- Ilya Tolstikhin (Google)
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- James Zou (Microsoft)
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- Katherine Heller (Duke University)
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- Koby Crammer (Technion)
- Laura Balzano (University of Michigan)
- Le Song (Ant Financial and Georgia Institute of Technology)
- Lihong Li (Google Inc.)
- Liwei Wang (Peking University)
- Marco Cuturi (ENSAE/CREST)
- Martin Takac (Lehigh University)
- Matthias Hein (University of Tuebingen)
- Maxim Raginsky (University of Illinois)
- Michael Mahoney (University of California, Berkeley)
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- Nan Jiang (University of Illinois at Urbana-Champaign)
- Nathan Kallus (Cornell Tech)
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- Negar Kiyavash (Georgia Institute of Technology)
- Nihar Shah (Carnegie Mellon University)
- Nika Haghtalab (Cornell University)
- Peter Bartlett (University of California, Berkeley)
- Ping Li (Baidu Research)
- Praneeth Netrapalli (Microsoft Research)
- Prateek Jain (Microsoft Research)
- Purnamrita Sarkar (University of Texas at Austin)
- Rafael Frongillo (CU Boulder)
- Raman Arora (Johns Hopkins University)
- Rebecca Willett (U Chicago)

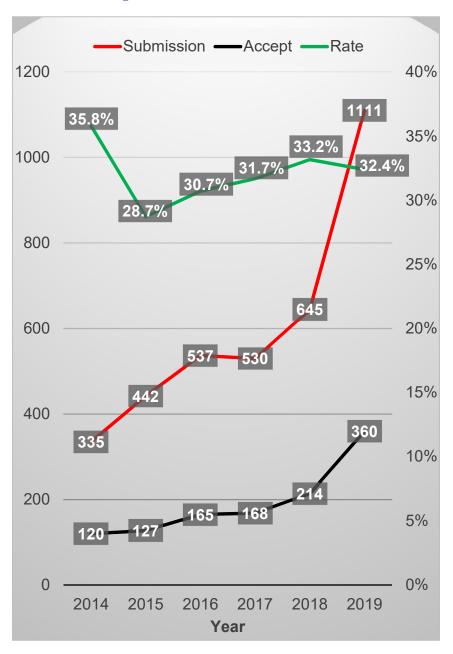
- Remi Munos (DeepMind)
- Ricardo Silva (UCL)
- Richard Nock (Data61, CSIRO)
- Ruth Urner (York University)
- Samory Kpotufe (Columbia University)
- Samuel Kaski (Aalto University)
- Sanjoy Dasgupta (University of California, San Diego)
- Sanmi Koyejo (University of Illinois, Urbana-Champaign)
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- Yingzhen Li (Microsoft Research Cambridge)
- Yisong Yue (Caltech)
- Yutian Chen (Deepmind)
- Yu-Xiang Wang (University of California, Santa Barbara)
- Zico Kolter (Carnegie Mellon University)
- Zoltan Szabo (Ecole Polytechnique)

877 reviewers

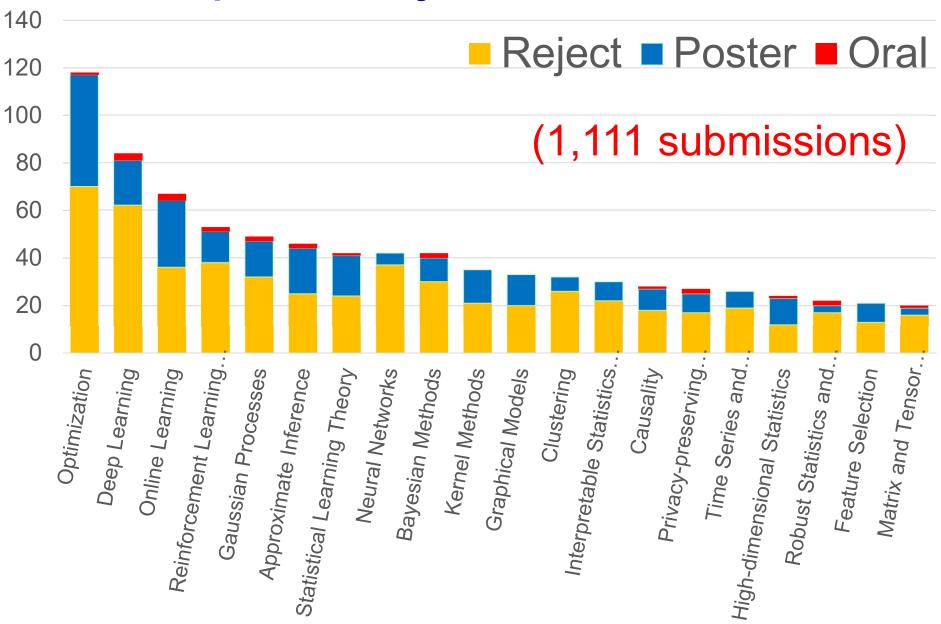
Submissions/Acceptance

■ 1,111 submissions:

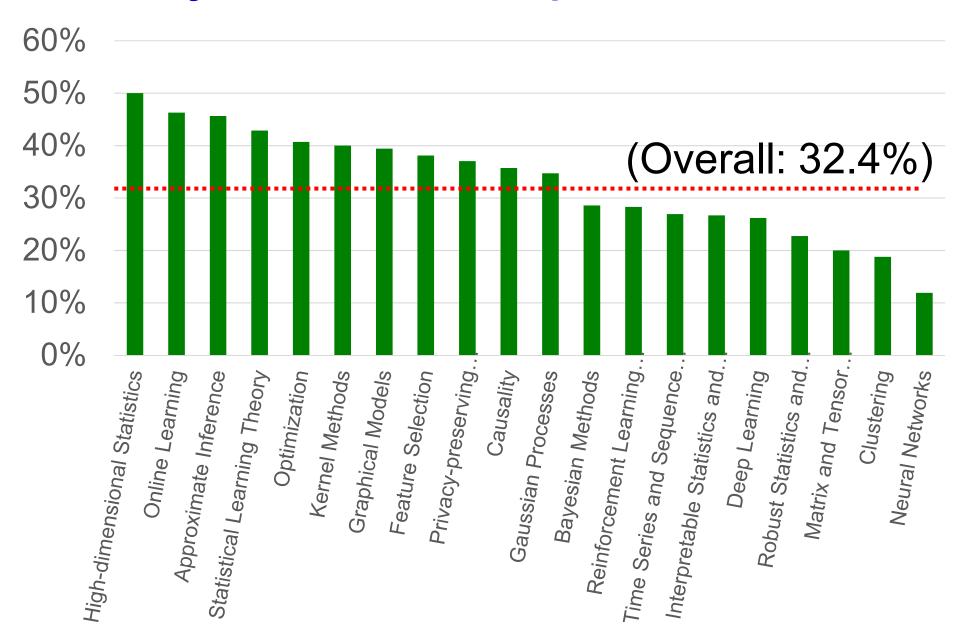
- Each paper reviewed by 3 reviewers.
- Rebuttal from authors.
- Discussion by Area
 Chairs and reviewers.
- 360 accepted papers (32.4% acceptance):
 - All papers have posters.
 - 28 oral talks.
 - 3 notable papers.



Paper-Subject Distribution



Subjectwise Acceptance Rate ⁷



3 Notable Paper Awards

- Ryan Giordano, William Stephenson, Runjing Liu, Michael Jordan, and Tamara Broderick: A Swiss Army Infinitesimal Jackknife. (Talk on Day 1 at 15:20)
- Pashupati Hegde, Markus Heinonen, Harri Lahdesmaki, and Samuel Kaski: Deep Learning with Differential Gaussian Process Flows. (Talk on Day 2 at 11:30)
- Yu-Xiang Wang, Borja Balle, and Shiva Kasiviswanathan: Subsampled Renyi Differential Privacy and Analytical Moments Accountant. (Talk on Day 2 at 14:50)

3 Invited Talks

- Day 1: Po-Ling Loh (University of Wisconsin-Madison, USA)
 - Data Science for Networked Data.



- Day 2: Robert Tibshirani (Stanford University, USA)
 - Statistical Learning and Sparsity.



- Day 3: Zhi-Hua Zhou (Nanjing University, China)
 - An Exploration to Non-NN Deep Models based on Non-Differentiable Modules.



Program

Tuesday, 16 April		Wednesday, 17 April		Thursday, 18 April	
7:30-9:00	Breakfast (90 min)	7:30-9:00	Breakfast (90 min)	7:30-9:00	Breakfast (90 min)
9:00-9:10 9:10 - 10:10	opening (10 min) Invited talk 1 (1h) Speaker: Po-Ling Loh	9:00-10:00	Invited talk 2 (1h) Speaker: Robert Tibshirani	9:00-10:20	session 3a (20 min x 4) <i>Optimization</i>
10:10-10:30	coffee break (20 min)	10:00-10:30	coffee break (30 min)	10:20-10:40	coffee break (20 min)
10:30 - 11:50	session 1a (20 min x 4) Learning Theory	10:30 - 11:50	session 2a (20 min x 4) Bayesian Methods	10:40 - 12:00	session 3b (20 min x 4) Reinforcement Learning and Bandits
11:50-13:20	lunch (90 min)	11:50-13:30	lunch (100 min)	12:00-13:30	lunch (90 min)
13:20 - 14:20	session 1b (20 min x 3) Statistics and Machine Learning 1	13:30 - 14:30	session 2b (20 min x 3) <i>Inference</i>	13:30 - 16:30	poster session 3 (3 hours)
14:20-14:40	coffee break (20 min)	14:30-14:50	coffee break (20 min)		
14:40 - 15:40	session 1c (20 min x 3) Statistics and Machine Learning 2	14:50 - 15:50	session 2c (20 min x 3) Privacy and Fairness	16:30 - 17:30	Invited talk 3 (1h) Speaker: Zhi-Hua Zhou
15:40 - 18:40	poster session 1 (3 hours)	15:50 - 18:50	poster session 2 (3 hours)	17:30 - 17:40	closing (10 min)

Banquet

19:00

21:00



OMRON TOSHIBA

