JINGYAN WANG

334 Groseclose Building, 755 Ferst Drive NW, Atlanta, GA 30332
Web: https://jingyanw.github.io/ *Email:* jingyanw@gatech.edu

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology 2021 – present
Ronald J. and Carol T. Beerman President's Postdoctoral Fellow
H. Milton Stewart School of Industrial and Systems Engineering
Host: Ashwin Pananjady

Simons Institute for the Theory of Computing 11.2021
Visiting postdoc
Program: Computational Complexity of Statistical Inference

EDUCATION

Carnegie Mellon University 2015 – 2021
Ph.D. in Robotics
Master of Science in Robotics
Thesis: "Towards Understanding and Mitigating Biases"
Advisor: Nihar B. Shah

University of California, Berkeley 2011 – 2015
Bachelor of Science in Electrical Engineering and Computer Sciences
Minor in Mathematics
Graduated with Highest Honors

PREPRINTS

[1] Jingyan Wang, Ashwin Pananjady
Modeling and Correcting Bias in Sequential Evaluation
arXiv preprint 2205.01607
In submission to Operations Research, 2022.

PUBLICATIONS

[1] Gregory Kehne, Ariel D. Procaccia, Jingyan Wang
Recruitment Strategies That Take a Chance
The Conference on Neural Information Processing Systems (NeurIPS), 2022.

[2] Jingyan Wang, Carmel Baharav, Nihar B. Shah, Anita Williams Woolley, R. Ravi
Allocation Schemes in Analytic Evaluation: Applicant-Centric Holistic or Attribute-Centric Segmented?
AAAI Conference on Human Computation and Crowdsourcing (HCOMP), 2022.

[3] Komal Dhull, Jingyan Wang, Nihar B. Shah, Yuanzhi Li, R. Ravi
A Heuristic for Statistical Seriation
The Conference on Uncertainty in Artificial Intelligence (UAI), 2021.

[4] Jingyan Wang, Ivan Stelmakh, Yuting Wei, Nihar B. Shah
Debiasing Evaluations That Are Biased by Evaluations
AAAI Conference on Artificial Intelligence (AAAI), 2021.
In submission to Journal of Machine Learning Research (JMLR), 2022.

[5] Jingyan Wang, Nihar B. Shah, R. Ravi
Stretching the Effectiveness of MLE from Accuracy to Bias for Pairwise Comparisons
International Conference on Artificial Intelligence and Statistics (AISTATS), 2020.

[6] Jingyan Wang, Nihar B. Shah
Your 2 is My 1, Your 3 is My 9: Handling Arbitrary Miscalibrations in Ratings
International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2019.
Best Student Paper Award
Appeared as "Ranking and Rating Rankings and Ratings" at AAAI 2020 Sister Conference Track.

[7] Jingyan Wang, Olga Russakovsky, Deva Ramanan
The More You Look, the More You See: towards General Object Understanding through Recursive Refinement
Winter Conference on Applications of Computer Vision (WACV), 2018.

[8] KV Rashmi, Preetum Nakkiran, Jingyan Wang, Nihar B. Shah, Kannan Ramchandran
Having Your Cake and Eating It Too: Jointly Optimal Codes for I/O, Storage and Network-bandwidth in Distributed Storage Systems.
Conference on File and Storage Technologies (FAST), 2015.

[9] Lei Tian, Jingyan Wang, Laura Waller
3D differential phase-contrast microscopy with computational illumination using an LED array
Optics Letters 39, 1326-1329, 2014.

TALKS

- *Modeling and Correcting Bias in Sequential Evaluation*
  Information Theory and Applications Workshop (ITA) 2022
- *Debiasing Evaluations That Are Biased by Evaluations*
  Women in EconCS, International Joint Conference on Theoretical Computer Science (IJTCS) 2021
- *Towards Understanding and Mitigating Biases*
  Georgia Institute of Technology 2021
  Harvard University 2021
  Nanyang Technological University 2021
  Peking University 2019
- *Understanding Biases in Assessment Problems*
  The Auton Lab, Carnegie Mellon University 2019
- *The More You Look, the More You See: Towards General Object Understanding through Recursive Refinement*
  National Robotics Engineering Center (NREC) 2017

AWARDS

Best Research Talk from the College of Engineering ($1250 travel award), Georgia Tech Postdoctoral Research Symposium 2022
Ronald J. and Carol T. Beerman President's Postdoctoral Fellowship, Georgia Tech 2021
Best Paper Award Nomination, AAMAS 2019
Best Student Paper Award, AAMAS 2019
Travel scholarship, AAAI 2020, AAMAS 2019, WiML and HCML workshops at NeurIPS 2019
Departmental Citation, UC Berkeley 2015
Recognition of outstanding undergraduate achievement within the department awarded to one graduating senior annually.

James H. Eaton Memorial Scholarship, UC Berkeley 2015
For a keen sense of creativity and inventiveness.

Kevin K. Gong Memorial Scholarship for Bright Minds and Big Hearts, UC Berkeley 2015
For passion about using technology to better the world.

Arthur M. Hopkin Award, UC Berkeley 2014
For seriousness of purpose and high academic achievement.

Berkeley Club of Hong Kong Undergraduate Scholarship, UC Berkeley 2014
Edward Frank Kraft Award for Freshmen, UC Berkeley 2012

SERVICE

Reviewer: Annals of Statistics (2020), ISIT (2021), AAAI (2021, 2022), STOC (2020), WiML NeurIPS (2019)

Program committee member: HCOMP (2022) Learning with Strategic Agents workshop, AAMAS (2022)

Qualifier committee member: Subhodeep Mitra (MS in Robotics, 2019)

Undergraduate student mentoring: Komal Dhull, Carmel Baharav

High school student mentoring: Charlotte Zhou (Bronx High School of Science, NY)

Admissions committee member: Robitics Institute Summer Scholars (RISS, 2019)

Student volunteer: AAAI (2020), AAMAS (2019), ICML (2016)

OUTREACH

Speaker, Seminar on Diversity, Equity, Inclusion (DEI) and Bias, GT INFORMS Student Chapter 2022

Presenter, Mission Possible Summer Camp, Georgia Tech 2022
Led an activity for high-school students to learn about research in the week-long summer camp

Grand award judge, Regeneron International Science and Engineering Fair (ISEF) 2022

Panelist, Tea with Summer Undergraduates, CMU 2019

Interview participant, the Girls Who Code 2019
Featured in the article https://womenincs.github.io/future.html

Student volunteer, PhD student open house, CMU 2019, 2021

Graduate student mentor, Robitics Institute Summer Scholars (RISS), CMU 2018
Mentored undergraduate students through the graduate school application process and provided suggestions on the writing material.

Outreach officer and webmaster, Society of Women Engineers (SWE) 2011 – 2015
Organized middle/high school outreach events and designed the chapter's website.

Member, Eta Kappa Nu Honor Society (HKN) 2013 – 2015

TEACHING EXPERIENCE

Teaching assistant, 16-720 (Computer Vision), CMU Fall 2017
Lab assistant, EE 20N (Signals and Systems), UC Berkeley Fall 2013

INDUSTRIAL EXPERIENCE

Facebook Inc. 6.2014 – 8.2014
Software Engineering Intern, Privacy Infrastructure Team

EMC Corporation 6.2013 – 8.2013
Software Engineering Intern, Advanced Storage Division