

# JINGYAN WANG

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## PROFESSIONAL EXPERIENCE

<b>Toyota Technological Institute at Chicago</b> <i>Research Assistant Professor</i>	2024 – present
<b>Georgia Institute of Technology</b> <i>President's Postdoctoral Fellow and Algorithms and Randomness Center (ARC) Postdoctoral Fellow</i> H. Milton Stewart School of Industrial and Systems Engineering Hosts: Ashwin Pananjady, Juba Ziani	2021 – 2024
<b>Simons Laufer Mathematical Sciences Institute (SLMath)</b> <i>Research Member</i> Program: Algorithms, Fairness, and Equity	10–12.2023
<b>Simons Institute for the Theory of Computing</b> <i>Visiting Postdoctoral Fellow</i> Program: Computational Complexity of Statistical Inference	11.2021

## EDUCATION

<b>Carnegie Mellon University</b> <i>Ph.D., School of Computer Science</i> <i>Master of Science, School of Computer Science</i> Thesis: Towards Understanding and Mitigating Biases Advisor: Nihar B. Shah	2015 – 2021
<b>University of California, Berkeley</b> <i>Bachelor of Science, Electrical Engineering and Computer Sciences (Highest Honors)</i> Minor in Mathematics	2011 – 2015

## AWARDS

Rising Stars in EECS Workshop	2023
Rising Stars in Data Science Workshop, University of Chicago	2022
Best Lightning Talk from College of Engineering, Fall 2022 Georgia Tech Postdoc Research Symposium	2022
Best Research Talk from College of Engineering, Spring 2022 Georgia Tech Postdoc Research Symposium	2022
Ronald J. and Carol T. Beerman President's Postdoctoral Fellowship, Georgia Tech	2021
ARC (Algorithms & Randomness Center) 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
<i>Recognition of outstanding undergraduate achievement within the department awarded to one graduating senior annually</i>	
James H. Eaton Memorial Scholarship, UC Berkeley	2015
<i>For a keen sense of creativity and inventiveness</i>	
Kevin K. Gong Memorial Scholarship for Bright Minds and Big Hearts, UC Berkeley	2015
<i>For passion about using technology to better the world</i>	

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
Dean's honors list, UC Berkeley	Fall 2011 – Spring 2015

## JOURNAL PUBLICATIONS AND UNDER REVIEW

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- **Jingyan Wang**, Ashwin Pananjady  
*Sorting Out the Truth: Ranking Estimation under Sequential Bias*  
Under review in Management Science, 2025.
- Krishna Acharya, Varun Vangala, **Jingyan Wang**, Juba Ziani  
*Producers Equilibria and Dynamics in Engagement-Driven Recommender Systems*  
Transactions on Machine Learning Research (TMLR), 2025.
- **Jingyan Wang**, Ivan Stelmakh, Yuting Wei, Nihar B. Shah  
*Debiasing Evaluations That Are Biased by Evaluations*  
Journal of Machine Learning Research (JMLR), 2024.
- Lei Tian, **Jingyan Wang**, Laura Waller  
*3D Differential Phase-Contrast Microscopy with Computational Illumination Using an LED Array*  
Optics Letters 39 (1326-1329), 2014.

## PREPRINTS (\* indicates alphabetical order)

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- Shuangning Li\*, Chonghuan Wang\*, **Jingyan Wang**\*  
*Choosing the Better Bandit Algorithm under Data Sharing: When Do A/B Experiments Work?*  
Under review, 2025.
- Ilia Kuznetsov, Osama Mohammed Afzal, Koen Dercksen, ..., **Jingyan Wang**, ..., Iryna Gurevych  
*What Can Natural Language Processing Do for Peer Review?*  
arXiv preprint, 2024.

## PEER-REVIEWED CONFERENCE PUBLICATIONS (\* indicates alphabetical order)

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- Diptangshu Sen, **Jingyan Wang**, Juba Ziani  
*Equilibria of Data Marketplaces with Privacy-Aware Sellers under Endogenous Privacy Costs*  
IEEE Conference on Secure and Trustworthy Machine Learning (SaTML), 2025.
- Xuanzhou Chen, Austin Xu, **Jingyan Wang**, Ashwin Pananjady  
*Learning the Eye of the Beholder: Statistical Modeling and Estimation for Personalized Color Perception*  
Annual Allerton Conference on Communication, Control, and Computing (Allerton), 2024.
- Austin Xu, Andrew D. McRae, **Jingyan Wang**, Mark A. Davenport, Ashwin Pananjady  
*Perceptual Adjustment Queries and an Inverted Measurement Paradigm for Low-Rank Metric Learning*  
Conference on Neural Information Processing Systems (NeurIPS), 2023.
- **Jingyan Wang**, Ashwin Pananjady  
*Modeling and Correcting Bias in Sequential Evaluation*  
ACM Conference on Economics and Computation (EC), 2023.
- Gregory Kehne\*, Ariel D. Procaccia\*, **Jingyan Wang**\*  
*Recruitment Strategies That Take a Chance*  
Conference on Neural Information Processing Systems (NeurIPS), 2022.

- **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.
- Komal Dhull, **Jingyan Wang**, Nihar B. Shah, Yuanzhi Li, R. Ravi  
*A Heuristic for Statistical Seriation*  
 Conference on Uncertainty in Artificial Intelligence (UAI), 2021.
- **Jingyan Wang**, Ivan Stelmakh, Yuting Wei, Nihar B. Shah  
*Debiasing Evaluations That Are Biased by Evaluations*  
 AAAI Conference on Artificial Intelligence (AAAI), 2021.
- **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.
- **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**
- Nomination for Best Paper Award**  
 Appeared as invited paper “Ranking and Rating Rankings and Ratings” in Sister Conference Track at AAAI Conference on Artificial Intelligence (AAAI), 2020.
- **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.
- 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.  
**Picked as the Best Paper by StorageMojo**
- Steve Yadlowsky, Preetum Nakkiran, **Jingyan Wang**, Rishi Sharma, Laurent El Ghaoui.  
*Iterative Hard Thresholding for Keyword Extraction from Large Text Corpora*  
 International Conference on Machine Learning and Applications (ICMLA), 2014.

## INVITED TALKS

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- *Choosing the Better Bandit Algorithm under Data Sharing: When Do A/B Experiments Work?*  
 INFORMS Annual Meeting 2025  
 Carnegie Mellon University 2025  
 Statistics Seminar, Cornell University 2025
- *Perceptual Adjustment Queries: Learning From Slider Data*  
 Information Theory and Applications Workshop (ITA) 2025
- *Understanding and Improving Evaluation: People, Algorithms, and Design*  
 Toyota Technological Institute at Chicago 2024  
 Department of Electrical and Computer Engineering, University of Washington 2024  
 School of Operations Research and Information Engineering, Cornell University 2024  
 School of Computational Science and Engineering, Georgia Tech 2024  
 Department of Management Science and Engineering, University of Waterloo 2024  
 Department of Computer Science, National University of Singapore 2024

Department of Industrial and Systems Engineering, Texas A&M University	2024
EECS Special Seminar, Massachusetts Institute of Technology	2023
IDEAL Institute, Northwestern University	2023
Ethics & Algorithms Seminar, University of California, Santa Cruz	2023
Peking University	2023
Carnegie Mellon University	2022
• <i>Modeling and Correcting Bias in Sequential Evaluation</i>	
Information Theory and Applications Workshop (ITA)	2024
BLISS Seminar, UC Berkeley	2023
Algorithms, Combinatorics and Optimization Research Network (ACORN) Meeting	2023
Rising Stars in Data Science Workshop, University of Chicago	2022
INFORMS Annual Meeting	2022
Information Theory and Applications Workshop (ITA)	2022
• <i>Debiasing Evaluations That Are Biased by Evaluations</i>	
Dagstuhl Seminar (Reviewer No. 2: Old and New Problems in Peer Review)	2024
Simons Laufer Mathematical Sciences	2023
INFORMS Annual Meeting	2023
Women in EconCS, International Joint Conference on Theoretical Computer Science (IJTCS)	2021
• <i>Towards Understanding and Mitigating Biases</i>	
Georgia Institute of Technology	2021
Harvard University	2021
Nanyang Technological University	2021
Peking University	2019
The Auton Lab, Carnegie Mellon University	2019
• <i>The More You Look, the More You See: Towards General Object Understanding through Recursive Refinement</i>	
National Robotics Engineering Center (NREC)	2017

## TEACHING EXPERIENCE

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• Instructor:		
44010 (People, Society, and Algorithms), TTIC		Autumn 2025
ISYE 8813 (Algorithmic Foundations of Ethical Machine Learning), Georgia Tech		Fall 2023
<i>Co-instructor with Juba Ziani</i>		
• Guest Lecturer:		
IST 402 (Crowdsourcing and Crowd-AI Systems), Penn State		Spring 2023
PIC 16B (Python with Applications II), UCLA		Winter 2023
ISYE 6740 (Computational Data Analysis), Georgia Tech		Fall 2022
• Teaching Assistant:	16-720 (Computer Vision), CMU	Fall 2017
• Lab Assistant:	EE 20N (Signals and Systems), UC Berkeley	Fall 2013

## PROFESSIONAL SERVICE

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- Panelist: National Science Foundation (2025)
- Area chair: AISTATS (2026), WWW (2025)
- Journal reviewer: IEEE Journal on Selected Areas in Information Theory (2023, 2024), Annals of Statistics (2020), Journal of Artificial Intelligence Research (2022, 2023, 2024)

- Conference reviewer: AISTATS (2025), ICML (2024), ICLR (2024, 2025), CHI (2024), WWW (2024), NeurIPS (2023, 2024, 2025), AAAI (2021, 2022, 2023, 2026), ISIT (2021), STOC (2020), Women in Machine Learning Workshop, NeurIPS (2019)
- Program committee member: EC (2025), COLT (2024, 2025), FAccT (2023), WINE (2023), HCOMP (2022, 2023),
- Admissions committee member: Robotics Institute Summer Scholars (2019)
- Student volunteer: AAAI (2020), AAMAS (2019), ICML (2016)

## OUTREACH ACTIVITIES

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Committee member, Community and Campus Life (CCL), TTIC	2024 – 2026
Session presenter, Hyde Park Academy International Baccalaureate (IB) Program Visit	2025
Session presenter, Autonomous Robotics Immersions program, TTIC	2025
Award committee, TTIC Student Workshop	2025
Session leader, Data, Ethics, and Policy Conference 2024, UChicago Harris School of Public Policy	2024
Judge, Undergraduate Research Spring Symposium, Georgia Tech	2024
Speaker, Seminar on Diversity, Equity, Inclusion (DEI) and Bias, GT INFORMS Student Chapter	2022
Presenter, Mission Possible Summer Camp, Georgia Tech <i>Led activities for high-school students to learn about crowdsourcing through storytelling the DARPA Red Balloon Challenge</i>	2022
Grand award judge, Regeneron International Science and Engineering Fair (ISEF)	2022
Panelist, Tea with Summer Undergraduates, CMU	2019
Interview participant, Girls Who Code <i>Featured in the article </i> <a href="https://womenincs.github.io/future.html"><i>https://womenincs.github.io/future.html</i></a>	2019
Student volunteer, PhD student open house, CMU	2019, 2021
Graduate student mentor, Robotics Institute Summer Scholars (RISS), CMU <i>Mentored undergraduate students through the graduate school application process and provided suggestions on the writing material</i>	2018
Outreach officer and webmaster, Society of Women Engineers (SWE) <i>Organized middle and high school outreach events and designed the chapter's website</i>	2011 – 2015
Member, Eta Kappa Nu Honor Society (HKN)	2013 – 2015

## INDUSTRIAL EXPERIENCE

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<b>Facebook Inc.</b>	6.2014 – 8.2014
Software Engineering Intern, Privacy Infrastructure Team	
<b>EMC Corporation</b>	6.2013 – 8.2013
Software Engineering Intern, Advanced Storage Division	