Tiffany Ding

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EDUCATION	**University of California, Berkeley**	Berkeley, CA
	Ph.D. Candidate in Statistics Advisors: Michael I. Jordan and Ryan J. Tibshirani	*2021 – present*
	Brown University	Providence, RI
	Sc.M. in Computer Science Advisor: Stephen Bach	*2020 – 2021*
	Brown University	Providence, RI
	Sc.B. in Applied Mathematics (GPA: 4.0, magna cum laude) Advisor: Charles Lawrence	*2017 – 2021*
INDUSTRY EXPERIENCE	**Amazon**	New York, NY
	Applied Scientist Intern	*Summer 2024*
	Developed game-theory models for Amazon marketplaces on the SCOT RL team with Omer Gottesmann and Dean Foster.	
	Johns Hopkins University APL	Remote
	Machine Learning Research Intern	*Summer 2020*
	Implemented uncertainty quantification methods for object tracking.	
	Facebook	Menlo Park, CA
	Data Science Intern	*Summer 2019*
	Analyzed large datasets to track user growth on Facebook products.	
FELLOWSHIPS AND AWARDS	Outstanding Graduate Student Instructor Award, UC Berkeley	*Mar 2025*
	NSF Graduate Research Fellowship	*2022 – present*
	Jerome L. Stein Memorial Award, Brown University Dept. of Applied Math	*May 2021*
	2nd Place, Citadel East Coast Regional Datathon	*Sep 2020*
	Outstanding Paper, Interdisciplinary Contest for Modeling	*Feb 2020*
	1st Place, Brown Math Contest for Modeling	*Nov 2019*
	Rewriting the Code Fellow	*2018 – 2021*
	Grace Hopper Scholar, AnitaB.org	*Oct 2019*

Teaching Experience

UC Berkeley — Berkeley, CA

Graduate Student Instructor
- STAT 153: Introduction to Time Series (Fall 2024)
- DATA 102: Data, Inference, and Decisions (Spring 2022)

Brown University — Providence, RI

Undergraduate Teaching Assistant
- DATA 2080: Data and Society (Spring 2021)
- DATA 1050: Data Engineering (Fall 2019)
- CSCI 0040: Intro to Scientific Computing (Spring 2019)
- CSCI 0170: CS: An Integrated Introduction (Fall 2018)

Publications and Preprints

Conformal Prediction for Long-Tailed Classification. T. Ding, J. Fermanian, J. Salmon. *arXiv preprint arXiv:2507.06867*, 2025+.

The Role of the Marketplace Operator in Inducing Competition. T. Ding, D. Perrault-Joncas, O. Ronen, M. I. Jordan, D. Bergemann, D. Foster, O. Gottesman. *arXiv:2503.06582*, 2025+.

Privacy Can Arise Endogenously in an Economic System with Learning Agents. N. Ananthakrishnan*, T. Ding*, M. Werner*, S. P. Karimeddy, M. I. Jordan. *Foundations of Responsible Computing*, 2024.

Class-Conditional Conformal Prediction with Many Classes. T. Ding, A. N. Angelopoulos, S. Bates, M. I. Jordan, R. J. Tibshirani. *Neural Information Processing Systems (NeurIPS)*, 2023.

Learning from Multiple Noisy Partial Labelers. P. Yu, T. Ding, S. H. Bach. *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022.

A Seabird Population Model to Evaluate Plastic Pollution Policies. T. Ding*, S. Kumar*, S. Shaw*. *UMAP Journal of Undergraduate Mathematics and Its Applications*, Vol. 41, No. 3, 2020.

Mining Drugs and Indications for Suicide-Related Adverse Events. T. Ding, E. S. Chen. *AMIA Annual Symposium Proceedings*, 2019.

*equal contribution

Talks

Calibrated Multi-Level Quantile Forecasting. Joint Statistical Meetings, Aug 2025.

Calibrated Multi-Level Quantile Forecasting. Invited talk, International Symposium on Forecasting, Jul 2025.

The Role of the Marketplace Operator in Inducing Competition. Invited talk, OCEAN ERC Seminar Series, Mar 2025. [video] [slides]

How Should We Construct Prediction Sets?. Invited talk, Machine Learning in Montpellier Seminar, Mar 2025. [slides]

Learning to Localize: Online Weighted Conformal Prediction. Joint Statistical Meetings, Aug 2024.

Privacy Can Arise Endogenously. Invited talk, Symposium on Foundations of Responsible Computing, Jun 2024. [slides]

Discussion on Self-Consistent Conformal Prediction. Invited discussion, International Seminar on Selective Inference, Mar 2024. [video]

Class-Conditional Conformal Prediction with Many Classes. Invited talk, Alaa Lab Rising Stars Series, Feb 2023. [video] [slides]

Outreach and Service

Workshop Organizer
>   EC 2025 Workshop on Human-AI Collaboration
>   ICML 2023 Women in Machine Learning Un-workshop

Leadership & Committee Roles
>   Director, Women in Machine Learning Board of Directors (2025–present)
>   Diversity Committee Chair, UC Berkeley Statistics Graduate Student
>   Association (SGSA) (2022–present)
>   Fellowship Committee Member, UC Berkeley SGSA (2022–present)
>   Service Committee Member, UC Berkeley SGSA (2021–2024)
>   Undergraduate President, Association of Women in Mathematics,
>   Brown University (2020–2021)

Mentor
>   Berkeley Mathematics Directed Reading Program (2024)
>   UC Berkeley Statistics Grad–Undergrad Mentorship Program (2021–2023)
>   NSF GRFP Workshop, UC Berkeley (2022)
>   Women in Science and Engineering, Brown (2018–2021)
>   Women in Computer Science, Brown University (2019–2021)
>   Matched Advising Program for Sophomores, Brown University (2019–2021)
>   Rewriting the Code (2020–2021)

Reviewer
>   Reviewer, *Transactions on Machine Learning Research* (2022–present)
>   Judge, ENVISION Research Competition by WiSTEM (2022)

Last updated August 2025