

JENNY Y. HUANG

ML @MIT

@jhuang9@mit.edu

Webpage

Google Scholar

LinkedIn

GitHub



EDUCATION

Ph.D. in Electrical Engineering and Computer Science

MIT

Aug 2023 – Present

Cambridge, MA

Advisor: Tamara Broderick

Collaborators: Jacob Andreas, Ashia Wilson, Mitchell Gordon

Research focus: Machine Learning and Artificial Intelligence, Statistics & Probability

S.M. in Electrical Engineering and Computer Science

MIT

Aug 2023 – May 2025

Cambridge, MA

Advisor: Tamara Broderick

GPA: 5.0 / 5.0

B.S. in Statistical Science & B.S. Computer Science
(Minor in Mathematics)

Duke University

Aug 2019 – May 2023

Durham, NC

Advisors: Jason Xu, Cynthia Rudin, David Dunson, Rick Durrett

GPA: 4.0 / 4.0 (Summa Cum Laude)

PUBLICATIONS

- J. Y. Huang, M. Damani, Y. El-Kurdi, R. Astudillo, W. Sun. *Latency and Token-Aware Test-Time Compute*. Preprint on arXiv, Sept 2025.
- J. Y. Huang*, Y. Shen*, D. Wei, T. Broderick. *Dropping Just a Handful of Preferences Can Change Top Large Language Model Rankings*. ICML 2025 workshop on Models of Human Feedback for AI Alignment (oral [talk]), July 2025.
- J. Y. Huang, D. R. Burt, Y. Shen, T. D. Nguyen, T. Broderick. *Approximations to Worst-Case Data-Dropping: Unmasking Failure Modes*. TMLR, July 2025.
Also at ICLR 2025 workshop on Data Problems for Foundation Models, NeurIPS 2024 Attributing Model Behavior at Scale.
- G. Parikh*, J. Y. Huang*, A. Sun*, L. Semenova, C. Rudin. *Navigating Progress: Enhancing Public Transit for More Equitable Communities via Interpretable Causal Inference*. Harvard Data Science Review, June 2025.
- J. Y. Huang, R. Morsomme, D. Dunson, J. Xu. *Detecting Changes in the Transmission Rate of a Stochastic Epidemic Model*. Statistics in Medicine, May 2024.
- A. Aswathi, V. Minin, J. Huang, D. Chow, J. Xu. *Fitting a Stochastic Model of Intensive Care Occupancy to Noisy COVID-19 Hospitalization Time Series*. Statistics in Medicine, Aug 2023.
- L. Boyle, S. Hletko, J. Huang, J. Lee, G. Pallod, H. Tung, R. Durrett. *Selective sweeps in SARS-CoV-2 variant competition*. PNAS, Nov 2022.

INTERESTS

- Robustness & Generalization in ML
- LLMs: Efficient Inference, Human-Feedback & Alignment
- Bayesian Methods

Selected Coursework: Machine Learning, Bayesian Statistics, Natural Language Processing, Statistical Learning & Inference, Probabilistic ML, Optimization, Hierarchical Models, Computational Genomics.

HONORS

- Amazon AI Research Innovation Fellow (2025)
- Quad Fellowship (2023)
- MIT Presidential Fellowship (2023)
- NSF Graduate Research Fellowship (declined, 2023)
- BEST Award in Bayesian Statistics, Duke University (2023)
- Faculty Scholars Award, Duke University (2022)
- Phi Beta Kappa Honor Society (2022)
- U.S. Presidential Scholar (2019)

INDUSTRY EXPERIENCE

Research Intern

IBM Research

Summer 2025

Cambridge, MA

Led a project to develop a query-adaptive compute allocation strategy for inference-time scaling of LLMs (Patent pending)

Mentor: Wei Sun

Intern

Emergo Therapeutics

Summer 2021

Durham, NC

Intern

Lenovo

Summer 2019

Morrisville, NC

INVITED TALKS & POSTERS

- **ICML**, Vancouver, B.C., 2025.
Dropping Just a Handful of Preferences Can Change Top Large Language Model Rankings. [Invited Talk]
- **ICCOPT**, Los Angeles, CA, 2025.
Dropping Just a Handful of Preferences Can Change Top Large Language Model Rankings. [Invited Talk]
- **NeurIPS**, Vancouver, B.C., 2025.
Approximations to Worst-Case Data-Dropping: Unmasking Failure Modes. [Poster]
- **MIT Robustness & Influence Functions Workshop**, Cambridge, MA, 2024.
Approximations to Worst-Case Data-Dropping: Unmasking Failure Modes. [Invited Talk]
- **ICML**, Vienna, Austria, 2024.
Approximations to Worst-Case Data-Dropping: Unmasking Failure Modes. [Poster]
- **ISBA World Meeting**, Montreal, Canada, 2022.
Detecting Changes in the Transmission Rate of a Stochastic Epidemic Model. [Poster, New Researchers Travel Award]
- **JSM**, Washington, D.C., 2022.
Public Transport Policies to Promote Equitable Urban Mobility. [Poster, 1st place ASA Data Expo Challenge]
- **AISC**, Greensboro, NC, 2022.
Online Controlled Experiments - Top Challenges and Solutions. [Invited Talk]
- **Banff Int'l Research Station**, B.C., Canada, 2022.
The Calculus of COVID-19 Variant Competition. [Invited Talk]
- **SISMID**, Seattle, WA, 2022.
Workshop: MCMC for Infectious Diseases
- **NSF Student Conference on COVID-19 Modeling**, Durham, NC, 2021.
Fitting a Stochastic Model of Intensive Care Occupancy to Noisy Hospitalization Time Series. [Poster]

SERVICES

- Reviewer: ICLR 2026, NeurIPS 2025, ICML 2025, ICLR 2025, Operations Research
- Communications Fellow, MIT Communications Lab (2024–Present)
Mentoring EECS students through one-on-one sessions focused on developing clear technical writing, public speaking, and visual design for research communication.
- Mentor, Women in Data Science (WiDS) Cambridge (2025)
- President, Duke Statistical Science Majors Union (2020–2022)
Organized speaker panels, mentor/mentee events, and an annual Datathon that brought students together to strengthen the undergraduate statistics community.
- Teaching Assistant:
Statistical Learning and Inference (STA432), Fall 2022, Spring 2023
Intro to Data Science (STA199), Summer 2023, Fall 2021

SKILLS

Python	PyTorch	Hugging Face			
R	Java	SQL	LaTeX	Git	HPC