

Logan Mondal Bhamidipaty

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EDUCATION

Stanford University

Expected Graduation: June 2025

M.S. in Computer Science, Artificial Intelligence

GPA: 4.0+

B.S. in Mathematics

GPA: 3.8

Coursework: (Graduate) Reinforcement Learning, Sequential Decision Making, Algorithmic Game Theory, NLP, Causal ML, Convex Optimization, Stochastic Processes, Linear Algebra; (Undergraduate) Graph Theory, Combinatorics, Market Design, Algorithms, Computer Systems

Oxford University (Stanford Bing Overseas Studies Program)

Michaelmas 2023

Coursework: Graph Neural Networks, Generative Drug Discovery

ACADEMIC EXPERIENCE

Research Assistant, AI for Human Impact (AI4HI)

Sep 2024 – Present

Advised by Emma Brunskill

- Working on data-efficient methods for LLM alignment.

Research Assistant, Stanford Intelligent Systems Laboratory (SISL)

Jan 2024 – Present

Advised by Mykel Kochenderfer and Trevor Hastie

- Developed open-source Julia packages for exponential family PCA and belief compression.

Research Assistant, Stanford Intelligence through Robotics at Scale (IRIS)

June 2023 – Present

Advised by Chelsea Finn

- Generalizing meta-RL algorithms for POMDPs.
- Scaling RLHF methods for VLMs in multi-task, language-conditioned learning.

Research Assistant, Stanford Brains in Silicon

June 2022 – Jan 2024

Advised by Kwabena Boahen

- Published a platform for dynamical systems identification inspired by OpenAI's Gym.

Research and Teaching Assistant, Stanford Department of Economics

Sep 2022 – Jun 2023

Advised by Paul Milgrom

- Wrote a 13-chapter course reader for ECON 136 (undergraduate market design) with theorems, exposition, and interactive exercises.
- First non-PhD TA for market design: taught section, held office hours, graded research papers.

Research Assistant, VMware Women's Leadership Innovation Lab

Jan 2022 – Nov 2022

- Used sentiment analysis to study corporate DEI initiatives of Fortune 500 companies.
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PROFESSIONAL EXPERIENCE

Economic Consultant, Auctionomics

February 2023 – Present

- Collaborated with Nobel laureate Paul Milgrom and other leading economists to conduct theoretical, empirical, and simulation analyses of complex markets and high-stakes auctions

NLP Research Intern, Claudius Legal Intelligence

Nov 2021 – May 2022

- Worked on cataloging bias in legal Q&A systems using transformers.

Special Collections Assistant, Stanford East Asia Library

Feb 2021 – Apr 2021

- Created a bilingual database of 700+ Chinese publications from the Mao period.
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PAPERS

Logan Bhamidipaty*, Mykel Kochenderfer, Trevor Hastie. [ExpFamilyPCA.jl: A Julia Package for Exponential Family Principal Component Analysis](#). *Journal of Open Source Software*, 2024. [Submitted]

Logan Bhamidipaty*, Mykel Kochenderfer. [CompressedBeliefMDPs.jl: A Julia Package for Solving Large POMDPs with Belief Compression](#). *Journal of Open Source Software*, 2024. [In Review]

Annie Xie*, **Logan Bhamidipaty***, Evan Zheran Liu, Joey Hong, Sergey Levine, Chelsea Finn. [Learning to Explore in POMDPs with Informational Rewards](#). *ICML*, 2024.

Logan Bhamidipaty*, Tommy Bruzese*, Caryn Tran*, Rami Ratl Mrad, Maxinder S. Kanwal. [DynaDojo: An Extensible Platform for Benchmarking Sample Efficiency in Dynamical System Identification](#). *NeurIPS*, 2023.

SELECTED AWARDS	Jun 2023
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Best Project Runner-Up , CS 224R (Deep Reinforcement Learning) Final Project	Jun 2023
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Top Student Contributor , CS 109 (Intro to Probability for CS) Course Reader	Oct 2021 – Oct 2023
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National Security Language Initiative for Youth , U.S. Department of State	Sep 2019 – Jan 2020
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SELECTED PERSONAL PROJECTS

Math Showcase Website

- Created 30+ interactive visualizations to democratize advanced math on topics including Heron's formula, phase portraits, butterfly networks, Box-Muller transforms, Voronoi diagrams, and more.

Image Processing Pipeline

- Implemented image processing techniques (e.g., gamma correction, Otsu thresholding) from scratch without advanced APIs.
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SKILLS Python, C/C++, TensorFlow, PyTorch, TensorFlow, MuJoCo, Gym, Pandas, R, Java, MATLAB

LANGUAGES English (native), Chinese (professional proficiency), Japanese (elementary)