

# 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

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## 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

\*denotes equal contribution

**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 Bruzzese\*, Caryn Tran\*, Rami Ratl Mrad, Maxinder S. Kanwal. DynaDojo: An Extensible Platform for Benchmarking Sample Efficiency in Dynamical System Identification. *NeurIPS, 2023*.

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#### SELECTED AWARDS

Jun 2023

**Best Project Runner-Up**, CS 224R (Deep Reinforcement Learning) Final Project

Jun 2023

**Top Student Contributor**, CS 109 (Intro to Probability for CS) Course Reader

Oct 2021 – Oct 2023

**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, Julia, C/C++, NumPy, PyTorch, TensorFlow, MuJoCo, Gym, Pandas, R, MATLAB

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