

# 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

Relevant Coursework: Reinforcement Learning, Sequential Decision Making, Algorithmic Game Theory, NLP, Causal ML, Convex Optimization, Stochastic Processes, Linear Algebra, Market Design

**Oxford University** (Stanford Bing Overseas Studies Program)

Fall 2023

Tutorial: Graph Neural Networks and Generative Models for Drug Discovery

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## ACADEMIC EXPERIENCE

**Research Assistant**, Stanford AI for Human Impact (AI4HI)

Sep 2024 – Present

*Advised by Emma Brunskill*

- Working on data-efficient strategies for decision policy alignment.

**Research Assistant**, Stanford Intelligent Systems Laboratory (SISL)

Jan 2024 – Present

*Advised by Mykel Kochenderfer and Trevor Hastie*

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

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

Jun 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

Jun 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 undergraduate market design with proofs and exercises.
- First non-PhD TA for market design: taught section, held office hours, graded research papers.

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## PROFESSIONAL EXPERIENCE

**Economic Consultant**, Auctionomics

Feb 2024 – Present

- Provide research support, economic analysis, and litigation consulting for defense counsel in *United States v. Google LLC* (online display advertising antitrust case), supporting Nobel laureate Paul Milgrom's expert testimony.
- Conduct theoretical, empirical, and simulation analyses of auction design and strategy, along with analysis of documentary evidence, report writing, and presentations to non-expert audiences.

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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. [Under 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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**SKILLS** Python (PyTorch, TensorFlow, SciPy, HF, Gym, MuJoCo, Pandas), Julia, C/C++, R, MATLAB

**LANGUAGES** English (native), Chinese (professional proficiency, HSK 5), Japanese (elementary)