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

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

- Scaling RLHF methods for VLMs in multi-task, language-conditioned learning.
- Devised a new algorithm for POMDP exploration using ideas from meta-RL.

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 market design course reader with proofs and online exercises.
- First non-PhD TA: taught section, held office hours, graded research papers.

PROFESSIONAL EXPERIENCE

Economic Consultant, Auctionomics Feb 2024 – Present

- Support Nobel laureate Paul Milgrom's expert testimony and advise defense counsel in *United States v. Google LLC* (online display advertising antitrust case).
- Conduct theoretical, empirical, and simulation analysis of auction design and strategy, create presentations for non-specialists, and help write expert reports.

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.*

SKILLS Python (PyTorch, TensorFlow, SciPy, HF, Gym, MuJoCo, Pandas), Julia, C/C++, R, MATLAB
LANGUAGES English (native), Chinese (professional proficiency), Japanese (elementary)
EXAMS GRE (V:169/Q:168/W:5), HSK 5, Chinese ACTFL Oral Proficiency Interview (Advanced Mid)