Lyndon Lam

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Education

Kempner Institute for the Study of Natural and Artificial Intelligence Jul. 2024 - Present
Postbaccalaureate Scholar

California State Polytechnic University, Pomona Aug. 2019 - Dec. 2023
Bachelor of Science, Computer Engineering GPA: 3.84

Research Publications

* denotes co-authors

Sample Efficient Off-Policy Evaluation by Stitching Trajectories
Lyndon Lam*, Scott Sussex*, Yao Liu, Finale Doshi-Velez, Emma Brunskill, George Konidaris, Omer Gottesman
To Be Submitted to Reinforcement Learning Conference (RLC) 2026

Understanding the Design Space and Cross-Modality Transfer for Vision-Langauge Models
Timothy Ngotiaoco*, Yasin Mazloumi*, **Lyndon Lam***, Rosie Zhao*, Reza M. Shamji, Sham Kakade, Yilun Du
Submitted to International Conference on Learning Representations (ICLR) 2026

Skill Generalization With Verbs
Rachel Ma, **Lyndon Lam**, Benjamin A. Spiegel, Aditya Ganeshan, Roma Patel, Ben Abbatematteo, David Paulius, Stefanie Tellex, George Konidaris
International Conference for Intelligent Robots and Systems (IROS) 2023

Research Experience

Harvard Machine Learning Foundations Group, Kempner Institute July 2024 - Present
Postbaccalaureate Researcher *Cambridge, MA*
Advisor(s): Prof. Sham Kakade and Prof. Yilun Du

- Developed a codebase for future multimodal-related projects for researchers
- Trained and benchmarked multiple vision-language models (VLMs) to systematically characterize how image-tokenizer choices and model architectures affect performance and cross-modal transfer
- Presented a poster on ongoing work in multimodal and inference-time optimization at the Kempner Spring Into Science event

Intelligent Robot Lab, Brown University September 2022 - May 2024
Research Assistant *Remote*
Advisor(s): Omer Gottesman and Prof. George Konidaris

- Designed and implemented a data-augmentation algorithm that improves the sample efficiency of off-policy evaluation methods in reinforcement learning and is robust to partial observability
- Implemented our algorithm on a realistic sepsis simulator

International Research Experience, University of Houston & Instituto Nacional de Astrofísica, Óptica y Electrónica June 2023 - August 2023
Summer Research Assistant *Pubela, Mexico*
Advisor(s): Prof. Thamar Solorio and Prof. Hugo J. Escalante

- Interpreted and explained the predictions of a multimodal-transformer model on the task of detecting harmful and questionable content for children
- Presented work to students and faculties at INAOE at the end of the summer

Research Experience, Brown University June 2022 - September 2022
Summer Research Assistant *Providence, RI*
Advisor(s): Prof. Stefanie Tellex and Prof. George Konidaris

- Developed a framework to transfer robotic manipulation skills onto objects not seen during training by using natural language as a guide
- Presented work at 2022 Summer Research Symposium at Brown University

Projects

Senior Design Project on Video Style Transfer, Cal Poly Pomona August 2022 - May 2023
Project Lead *Pomona, CA*
Advisor(s): Prof. Anas Salah Eddin

- Built and trained our own StyleGAN model on the COCO dataset to perform style transfer on videos
- Made the style transferring of our StyleGAN model more efficient and versatile by incorporating Contrastive Language–Image Pre-training (CLIP) embeddings to guide the style transferring

Data Science Projects, Cal Poly Pomona August 2020 – May 2022
Undergraduate Assistant *Pomona, CA*
Advisor(s): Prof. Sonya Zhang

Price Prediction of Airbnb Rentals

- Implemented and benchmarked various machine learning models on predicting Airbnb rentals' prices in California
- Presented work at 2022 College of Business Adminstraction Research, Scholarship, & Creative Activities (RSCA) Showcase

Topic Modeling and Classification of Yelp Reviews

- Performed topic extraction and sentiment analysis with word embeddings techniques on 95,000 Yelp reviews of restaurants
- Presented work at the 2021 Cal Poly Pomona Research, Scholarship, & Creative Activities Conference

Honors & Awards

Fellowship of $2000 May 2022
Cal Poly Pomona Philanthropic Foundation
Given to students in recognition for their service and commitment

Service

Harvard Machine Learning Foundations Group January 2025 – present
Help organize reading groups and presentations from outside speakers by handling the food logistics
Member of Kempner Editorial Board August 2025 – present
Review scientific content for publication in the Kempner Institute's news articles, explainers, and other online materials to ensure all content is technically sound and scientifically accurate

Skills

Relevant Coursework:	Machine Learning, Data Structures and Algorithms, Software Engineering, Clustering & Mixture Modeling, Statistics & Probability, Multivariable Calculus, Linear Algebra, Differential Equations, Robotics
Programming Languages:	Python, R, C/C++, C#, Bash, LaTeX, MATLAB, HTML, CSS
Frameworks/Libraries:	Pytorch, NumPy, Pandas, Matplotlib, Seaborn, SciKit-Learn
Technologies:	High Performance Computing Cluster, Jupyter, Virtual Machine