

Adam Lee

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EDUCATION

Harvard University

Ph.D. Candidate in Computer Science, Advisor: Cengiz Pehlevan
NSF GRFP Fellow

Cambridge, Massachusetts

2023 – Present

University of California, San Diego

B.S. in Data Science, B.S. in Applied Mathematics

La Jolla, California

2019–2023

RESEARCH EXPERIENCE

Salk Institute for Biological Studies

Talmo Pereira | December 2021 – June 2023

- Development of a biologically inspired simulation to study biomechanical constrained behavior among animals using MuJoCo and deep reinforcement learning.

Universität Bielefeld

Kevin Tierney | June 2022 – September 2022

- Applying autoregressive deep reinforcement learning to mixed integer combinatorial optimization problems on a HPC cluster.

Oregon State University – REU

Cindy Grimm | June 2021 – September 2021

- Development of simulator to reality transfer to perform deep reinforcement learning on real-world robotics in grasping

Arthur C. Clarke Center for Human Imagination – REU

Robert Twomey, Jon Paden | Sep 2020–Sep 2021

- Created and trained multiple deep generative models in audio, text and image modalities. Deployed models to computing cluster with interactive web interfaces.

Pacific Research Platform – REU

Jon Paden, Tom DeFanti | June 2020 – December 2020

- Built a platform for interactive server maintenance in VR with real-time traceroute visualiations.

INDUSTRY

Surfn

Co-founder, May 2020 – June 2021

- A social video call real-time matching platform created to create connections between college students, deployed to app store with 200+ users
- Designed and developed full-stack software system for video chatting and real-time matchmaking – backend, databases, frontend, devops
- Recruited and led a team of 12 people in order to coordinate design, engineering, and marketing strategies

Accel Robotics

R&D Intern, Jan 2021 – June 2021

- A platform creating frictionless shopping experiences through automated grocery and convenience stores
- Developed analyses and visualizations of real-world shopper data to consult creation of a new store location
- Developed a recommender system from scratch on shopper preferences. Includes: Training pipeline with live data, algorithm selection tools with metrics, API, and real-world deployment tooling.

Education.com

Software Engineer Intern, July 2019 – Sept 2019

- An educational platform providing teachers and parents with learning resources

- Built site-wide recommendation system for educational content. Scraped and preprocessed data from **1+ million children** utilizing REST APIs. Built and tuned various deep learning model architectures in Tensorflow.
- Wrote a script utilizing PHP to make content images SEO-friendly sitewide to increase site access from Facebook and Twitter for **30k+** pieces of educational content.

TEACHING

- **Imitating Behavior to Model the Brain**, University of California, San Diego Fall 2022, Winter 2023
Developed a two-quarter senior-level course with Talmo Pereira covering the domain of NeuroAI within motion capture, reinforcement learning, and imitation learning with the goal of preparing students for research - Created a week-by-week plan with curated readings, engaging questions, and coding assignments.

PUBLICATIONS, POSTERS, PRESENTATIONS

1. Eric Leonardis, Dan Butler, **Adam Lee**, Scott Yang, Diego Aldarondo, Bence Ölveczky, Eiman Azim, Talmo Pereira, “The impact of biomechanical actuators on neural embodied control”, *COSYNE, 2024*
2. **Adam Lee**, Talmo Pereira, Kay Tye, “Refining Neuroethological Simulation with Machine Learning” (poster), *UCSD Undergraduate Research Symposium, 2022*

SCHOLARSHIPS AND AWARDS

- National Science Foundation Graduate Research Fellowship 2023–present
- Halicioğlu Data Science Institute Undergraduate Scholarship 2020, 2022
- Triton Research & Experiential Learning Scholars Award 2021