

Andrew Ehrenberg

Machine Learning MSc Student
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Excited about intelligence that reliably perceives, interacts with, and learns from the real world.

Achievements

PAC 12 All-Academic First Team
UCLA Athletics All-Academic Team

Skills

Applications	L ^A T _E X, AWS, Adobe Photoshop
Programming Languages	Python, R, C++, SQL
Tools & Libraries	PyTorch, Tensorflow, git, Pandas, OpenCV, JAX, PySpark

Pursuits

Writing and Performing Music

- Toured throughout Northern California with a band during Middle School/High School as lead singer/guitarist
- Currently working on original music with a new group of UCLA musicians

Outdoor Adventure

- Since age 14, I have regularly organized unguided trips into rugged wilderness with friends

Cycling

- With my collegiate running career over, I found a new active/competitive passion

Education

MSc in Machine Learning 2020-2021

University College London

- Coursework - Reinforcement Learning, NLP, Computer Vision, Multi-agent AI, Unsupervised Learning, Meta-Learning

BS in Statistics, Minor in Mathematics 2016-2020

University of California, Los Angeles

- GPA: 3.82/4.0 - *Cum Laude*
- Coursework - Deep Learning (Graduate), Algorithms, Network Science, Probability Theory, Optimization, Monte Carlo Methods, Real Analysis, Linear Algebra
- Extracurriculars - Varsity Track and Field, Data Science Union, ACM AI Project Team

Experience

UCL DARK Lab 2020 - present

Master's Researcher

- Research on improving Reinforcement Learning performance in procedurally generated environments, Language-Informed (Meta) RL, exploration, and Offline RL with professors and PhD students jointly affiliated with UCL and Facebook AI
- Gaining Machine Learning Engineering experience by implementing state of the art models.

UCLA Track & Field/Cross Country 2017- 2020

NCAA Student-Athlete

- Coached myself during my freshman year to walk on
- Trained 25 hours per week to run a 4:08 mile, and 24:00 5 mile cross country race
- Awarded for having the highest GPA on the team

UCLA Human-Computer Interaction Lab 2018 - 2019

Undergraduate Researcher

- Built eye tracking software that works in real time (>30 fps) on a CPU with OpenCV, dlib, and other computer vision tools.

Morgan Stanley, Menlo Park, CA 2018

Software Engineering Intern

- Wrote software that uses web scraping, NLP, named entity recognition, and API interfacing to automate lead generation.

Projects

Facebook AI Deepfake Detection Challenge 2019-2020

- Used AWS to work with massive datasets, managed a large code base with a team.

Inverse Reinforcement Learning 2019

- Tested and debugged implementations of generative models for IRL/Imitation Learning using Python and Julia language highway simulations with the UCLA lab.

Image Colorization with Generative Models 2019

- Researched state of the start approaches, implemented and trained a GAN using PyTorch, and wrote a report for a graduate course (100% grade).