

# DYLAN GOETTING

(510) 926-2613 · [dylan-goetting.github.io](https://dylan-goetting.github.io) · dylangoetting@berkeley.edu

## EDUCATION

UC Berkeley - M.S. Electrical Engineering & Computer Science, advised by Jitendra Malik	May 2025
UC Berkeley - B.S. Electrical Engineering & Computer Science   B.S. Business Administration	May 2024
Management, Entrepreneurship, & Technology Program (50 accepted students out of 2000+)	Grad GPA: 4.00
CS Coursework (*Graduate-level): Robotics*, Deep RL*, LLM Agents*, Computer Vision, Discrete Math,	Tech GPA: 3.99
Computer Architectures, Data Structures, Computer Security, Statistical Learning, Circuits and Control	Total GPA: 3.90

## WORK EXPERIENCE

**Berkeley Artificial Intelligence Research, Berkeley CA** Aug 2023 – Present

### Graduate Researcher

- First author on **VLMnav**, accepted to CoRL 2024 Workshop on Language and Robotic Learning. [Website](#), [Arxiv](#), [code](#)
- **SSEAL**: Novel framework enabling agents to autonomously improve, 2nd author and under review at ICML 2025. [Paper](#)
- **VLA as Tools**: Developed novel system, planning agent iteratively prompts a Vision-Language-Action model. [Paper](#)
- Used IsaacGym and Pytorch to improve adaptation mechanisms for quadruped robots in a multi-agent environment

**IMC Trading, Chicago IL** Jun 2023 – Aug 2023

### Quantitative Trading Intern

- Used statistical learning techniques and classical ML to model and predict toxic flow within the S&P index operation

**LeanLaw, Remote CA** Aug 2023 – Dec 2023

### Machine Learning Engineer (Contract)

- Led a team of 6 engineers to build an LLM application to answer clients' queries about their finances.
- Designed and built a novel vector database of language - SQL pairs, which on inference queried labels based on cosine similarity for in-context learning. Built in a cybersecurity layer to ensure data privacy and prevent prompt injections

**Cognitiv Corp, Seattle Wa** Jun 2021 – Aug 2022

### Machine Learning Engineer - 2022

- Developed models with 10% higher AUC-ROC by implementing Bayesian Optimization into the company's deep learning library to efficiently search through hyperparameters, model architectures and feature combinations
- Streamlined operations with a pipeline to automate model training and evaluation while decreasing computational spend

### Machine Learning Research Intern - 2021

- Designed and created a simulated advertising environment for the training of a reinforcement learning agent
- Used RL algorithms to create an intelligent bidding agent capable of learning user behavior based on browsing data
- Created DDPG agent that was able to optimize the cost per acquisition of an advertising campaign, respond to changing reward signals within the environment and stay within a budget constraint, all novel innovations

**Attune Inc, Remote CA** Sep 2022 – Dec 2022

### Machine Learning Engineer (Contract)

- Trained deep learning models for unsupervised anomaly detection on multidimensional time data from air quality sensors

## PROJECTS

### Voculator ([Launchpad](#)) – 2023

- Lead a team of machine learning developers to build an unsupervised speech generation and classification model
- Used neural audio codecs as a representation and trained CNN and transformer models to generate speech

### Independent ML Research – 2021

- Published the first Deep Reinforcement Learning approach to solve the Newsvendor model, a classic economics problem
- Developed a policy gradient model that proved to match the analytical solution to the problem [Arxiv](#)

### Center for New Music and Audio Technologies (CNMAT) Research – 2022, 2021

- Built rendering software using ThreeJS to animate real-time data from a mocap suit in 3-D on an artistic remote server

## SKILLS

- **Machine Learning**: Transformers, diffusion, simulators, agents, GPU inference, reinforcement learning, LLMs, VLMs
- **Languages**: Python, Java, HTML, Javascript, SQL, MATLAB, Swift, Scheme, C, C++, Go, shell
- **Technologies**: Pytorch, ROS, IsaacGym, Pandas, React, GraphQL, Git, AWS Athena, ThreeJS, Xcode, advanced Excel
- **Math**: Strong math competition experience, 2x AIME qualifier, 2x AMC school winner out of 4000 students

