

# MING FONG

 [linkedin.com/in/mingfong](https://www.linkedin.com/in/mingfong)

 [mingfong@berkeley.edu](mailto:mingfong@berkeley.edu)

 [github.com/evilpegasus](https://github.com/evilpegasus)

## EDUCATION

---

### University of California, Berkeley

*Bachelor of Arts, Physics and Computer Science*

June 2020 – May 2024

*Berkeley, CA*

**Cumulative GPA:** 3.824

**Coursework:** Machine Learning, Neural Networks, Discrete Math, Probability, Linear Algebra, Data Structures

**Activities:** Traders at Berkeley, Student Association for Applied Statistics (SAAS), Capital Investments at Berkeley

## EXPERIENCE

---

### DeepMind Technologies Ltd.

*Incoming Core Research Engineering Intern*

Fall 2022

*London, UK*

### Two Sigma Investments, LP

*Quantitative Research Intern*

May 2022 - August 2022

*New York City, NY*

Statistical techniques for equity clustering

### Lawrence Berkeley National Laboratory

*Machine Learning Researcher*

January 2021 – Present

*Berkeley, CA*

Deep learning for pion reconstruction in particle physics collision events in collaboration with the CERN ATLAS group

Applied graph neural networks and data engineering to high dimensional data to improve network learning efficiency

Discovered models for classification of pions with 5x better background rejection than traditional hand-tuned models

### Voloridge Investment Management, LLC

*Quantitative Research Intern*

May 2021 – August 2021

*Jupiter, FL*

Portfolio holdings inference of non-transparent funds using statistical and machine learning methods

Reduced dimensionality of securities universe tenfold using correlations, regressions, and feature selection techniques

Applied portfolio constraints and turnover limitations via modified LASSO, Ridge, and other regression regularizations

### AI Dynamics Inc.

*Software Engineering Intern*

August 2020 – January 2021

*Bellevue, WA*

Developed a Python framework to deploy proprietary data modeling software to AWS EC2 using the Boto3 API

Saved 8+ hours per build iteration by automating the entire testing pipeline for the NeoPulse API on AWS Instances

### Microsoft Corporation

*Software Engineering Intern*

June 2019 – August 2019

*Redmond, WA*

Developed internal desktop applications for the Windows Data Science team with 50+ users using C# and XAML

Designed and maintained backend SQL database tables and implemented queries and REST API endpoints

## PROJECTS

---

### Two Sigma Halite AI Programming Challenge

Bronze Medal: Ranked in the top 6% out of 1138 submissions on the global Kaggle leaderboard

Implemented creative algorithmic pathfinding and decision policies in a Python agent against other players

### Google Trends Financial Modeling

Used Google Trends data to predict ETF price movements, earning 42% returns per annum in backtesting

Implemented EDA, feature engineering, modeling, and backtesting in Python with Pandas, Scikit-learn, NumPy

### Berkeley SAAS Data Science Consulting

**Orbital Insight** - Missing object interpolation for cloudy satellite imagery using geospatial and time-series techniques

**ProducePay** - Feature importance analysis and predictions for terminal and shipping price quotes of produce

### Berkeley Trading Competition

Planned and moderated Traders at Berkeley's first 100-contestant West Coast Trading Competition

Developed 2 turn-based market making games with a Python Flask backend and ReactJS frontend

### Citadel West Coast Regional Datathon

Quantified the effectiveness of government interventions on COVID-19 rates in Europe

## SKILLS

---

### Software Languages

Python, R, Java, C#, SQL, HTML/CSS/JavaScript

### Tools

NumPy, Pandas, Scipy, Sklearn, Jupyter, Linux, Windows, VS Code, Git

### Interests

Table Tennis, Tennis, Cycling, Badminton