

# MING FONG

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## EDUCATION

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**University of California, Berkeley** June 2020 – May 2023  
*Bachelor of Arts, Physics and Computer Science* Berkeley, CA  
**Cumulative GPA:** 3.967  
**Coursework:** Data Structures and Algorithms, Discrete Math, Multivariable Calculus, Linear Algebra  
**Activities:** Student Association for Applied Statistics (SAAS), Traders at Berkeley, Capital Investments at Berkeley

## EXPERIENCE

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**Lawrence Berkeley National Laboratory** January 2021 – Present  
*Machine Learning Researcher* 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** May 2021 – August 2021  
*Quantitative Research Intern* 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  
Limited turnover and applied portfolio constraints via modified Lasso, Ridge, and other regularizations to regressions  
**AI Dynamics Inc.** August 2020 – January 2021  
*Software Engineering Intern* Bellevue, WA  
Developed a Python framework to deploy proprietary model-building 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** June 2019 – August 2019  
*Software Engineering Intern* Redmond, WA  
Developed an internal desktop application 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

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### 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

Modeled the effect of non-pharmaceutical interventions on COVID-19 reproduction rates in 31 European countries

### Google Trends Financial Modeling

Used Google Trends data to predict NASDAQ 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 Kaggle Competition

1st place solution in the Fall 2020 Berkeley Student Association for Applied Statistics internal Kaggle competition  
Predicted 2017 NYC real estate sale prices using a Keras feedforward neural network in Python

### 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 policies in a Python agent to compete in the Halite IV simulation environment

## SKILLS

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<b>Software Languages</b>	Python, R, Java, C#, SQL, HTML/CSS/JavaScript
<b>Tools</b>	Jupyter, Linux, Windows, VS Code, Git
<b>Interests</b>	Table Tennis, Tennis, Cycling, Badminton