

# 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:** 4.0  
**Coursework:** Computer Programs (Python), Multivariable Calculus, Algorithms, Quantitative Finance  
**Activities:** Student Association for Applied Statistics, Traders at Berkeley, Capital Investments at Berkeley

## EXPERIENCE

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**Voloridge Investment Management, LLC** May 2021 – Present  
*Quantitative Research Intern* Jupiter, FL  
Portfolio holdings inference of non-transparent funds using statistical and machine learning methods  
Implemented feature selection algorithms and various forms of regressions in Python with Pandas, NumPy, and Sklearn

**Lawrence Berkeley National Laboratory** January 2021 – Present  
*Undergraduate Researcher* Berkeley, CA  
Worked as a part of the Nachman Group within the Physics Division Machine Learning Group  
Researched graph neural networks for pion identification problems with the ATLAS detector at CERN  
Implemented models for classification of pions with 5x better background rejection than hand-tuned models

**AI Dynamics Inc.** August 2020 – January 2021  
*Software Engineering Intern* Bellevue, WA  
Developed a Python framework to deploy model-building software to AWS EC2 using the Boto3 API  
Saved 5+ hours per 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 Windows desktop application for the Windows team with 50+ users using C# and XAML  
Set up backend SQL database tables with relevant queries and REST APIs  
Used agile methodologies (scrum) with a small team to coordinate workflow and iterative development

## 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 neural network in Python, scoring a RMSE of 3340572

### 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 Notebook, Linux, Windows, VS Code, Git
<b>Interests</b>	Table Tennis, Tennis, Cycling, Martial Arts