

# George Ho

<https://eigenfoo.xyz>  
hello@eigenfoo.xyz | 646 714 9450

## EDUCATION

### THE COOPER UNION

#### BSE IN GENERAL ENGINEERING

Expected May 2019 | New York, NY

GPA: 4.0

### CHINESE INT'L SCHOOL

#### IB DIPLOMA

Grad. May 2015 | Hong Kong

## LINKS

Github:// [eigenfoo](#)

LinkedIn:// [george-ho-915080126](#)

## COURSEWORK

### GRADUATE

Data Science Projects for Social Good

Machine Learning and Art

Bayesian Machine Learning

Artificial Intelligence

### UNDERGRADUATE

Data Structures and Algorithms

Mathematical Statistics

Probability Models and Stochastic

Processes

Linear Algebra

## SKILLS

### PROGRAMMING

Fluent:

Python (and PyData ecosystem: NumPy, pandas, scikit-learn, etc.)

Functional:

C++ • MATLAB • Shell

## WORK EXPERIENCE

### QUANTOPIAN | QUANTITATIVE RESEARCH AND INVESTMENTS INTERN

Summer 2017, 2018 | Boston, MA

- Developed open-source and in-house Python libraries for portfolio risk analysis and performance attribution.
- Maintained, developed and managed 3 open-source Python libraries: collaborated with worldwide team to coordinate significant feature additions
- Operationalized risk analysis and performance attribution of institutional fund portfolio, leading to significant restructuring of fund-level portfolio.
- Contributed to crowd-sourced algorithm selection process using machine learning techniques.

### THE COOPER UNION | UNDERGRADUATE RESEARCH FELLOW

2017-2018 | New York, NY

- Performed direct numerical simulation of complex ABC fluid flow in Python and Fortran to determine roles of density, Stokes number and Coriolis forces on inertial fluid transport.
- Investigated machine learning using privileged information: implemented simple and efficient algorithms for applications in pre-term birth diagnosis.

## PROJECTS

### ALGORITHMIC TRADING | TIME SERIES ANALYSIS

Fall 2016 | Quantopian; Cornell University

- Analyzed minutely market pricing data using machine learning algorithms to research and develop a pairs-trading strategy in Python.
- Won 3rd place in Cornell University's Sparkstone Algorithmic Trading Challenge (out of hundreds of competitors) using a momentum long-short strategy.

### HATE SPEECH ON REDDIT | NATURAL LANGUAGE PROCESSING

Jan 2018 – June 2018 | The Cooper Union, NY

- Identified most hateful subreddits using a hate speech classifier, and modelled posts and comments using text clustering techniques.
- Worked with an interdisciplinary team of artists and architects to visualize text clusters and user data. Work put up for exhibition at Cooper Union's 2018 End of Year Show.

## AWARDS

2015-2019 Cooper Union Half-Tuition Scholarship

2015-2019 Cooper Union Innovator Merit Scholarship

All Semesters Dean's List (School Honors)

## REFERENCES

Available upon request.