

George Lai Gie Ho

<http://eigenfoo.github.io>
georgh0021@gmail.com

Education	The Cooper Union, New York, NY. Bachelor of Science in Engineering, Interdisciplinary Engineering. Projected May 2019. G.P.A.: 4.0/4.0 <i>Relevant Coursework:</i> Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Probability, Mathematical Statistics, Linear Algebra
Experience	<div><div>Quantitative Research and Investments InternSummer 2017</div><div>Quantopian Inc., Boston<ul style="list-style-type: none">Operationalized and validated an in-house statistical risk model for US equitiesDeveloped open-source and in-house Python libraries for portfolio risk analysis and performance attributionMaintained, developed and managed 3 open-source Python libraries: collaborated with worldwide team to coordinate significant feature additionsOperationalized risk analysis and performance attribution of institutional fund portfolio, leading to significant restructuring of fund-level portfolio</div><div><div>Undergraduate Research FellowSummer-Fall 2017</div><div>Complex Fluid Physics and Engineering (CoFPhE) Laboratory<ul style="list-style-type: none">Performing direct numerical simulation of complex ABC fluid flow to determine roles of density, Stokes number and Coriolis forces on inertial transportResults will be presented at 2017 annual meeting of the American Physical Society Division of Fluid Dynamics at Denver, Colorado</div></div></div>
Projects	<div><div>Independent Projects in Algorithmic TradingFall 2016</div><div>Quantopian, Cornell University<ul style="list-style-type: none">Analyzed minutely market pricing data using machine learning algorithms to research and develop a pairs-trading strategy in PythonWon 3rd place in Cornell University's Sparkstone Algorithmic Trading Challenge (out of hundreds of competitors) using a momentum long-short strategy</div><div><div>Molecular Modeling of Ammonium Halide NanoparticlesSpring 2016</div><div>The Cooper Union<ul style="list-style-type: none">Wrote MATLAB scripts and performed quantum calculations to develop a molecular model for ammonium fluoride nanoclustersPresented findings at the 2016 Meeting of the American Chemical Society</div></div></div>
Skills	<ul style="list-style-type: none"><i>Programming Languages:</i> Fluent in Python, C++ and MATLAB. Functional in Haskell and Fortran.<i>Software Packages and Libraries:</i> NumPy, pandas, matplotlib, scikit-learn.<i>Languages:</i> Functional in Mandarin, Cantonese and French
Awards	<div><div><ul style="list-style-type: none">Cooper Union Half-Tuition Scholarship2015 - 2019Cooper Union Innovator Merit Scholarship2015 - 2019Dean's List (School Honors)All semesters</div></div>
References	Available upon request.