

Jerry Han

www.linkedin.com/in/jerry-han | 1-609-255-3074 | jerryhan@princeton.edu

Education

Princeton University

GPA: 4.00

Bachelor of Arts in Mathematics and Computer Science

Expected Graduation: June 2027

- **Relevant Coursework:** Algorithms and Data Structures | Multivariable Analysis and Linear Algebra | Neural Networks | Probability and Stochastic Systems | Mathematical Microeconomic Theory
- **Research:** Image segmentation and pose detection research at Princeton Vision & Learning Lab
- **Clubs:** Princeton UG Capital Partners, Association for Computing Machinery, Treasurer of Singapore Association, Boxing Club

Professional Experience

Stealth Startup

San Francisco, California

Co-founder

May 2024 – Current

- Co-founded a startup at the intersection of consumer social and artificial intelligence, supported by Sebastian Thrun & Hillspire
- End-to-end development of mobile applications, recommendation algorithms, generative AI & agentic AI systems
- Onboarded 106 clients and accumulated >13K views across various channels

Princeton Undergraduate Capital Partners

Princeton, New Jersey

Diligence Analyst

Sep 2023 – Current

- Conducted due diligence analysis which informed investment decisions for a diversified conglomerate's asset management arm
- Completed 7 industry deep dives into ESG integration across multiple asset classes including Fixed Income and Public Equities
- Sourced and pitched 2 new AI developer tooling startups which informed investment decisions for a partner at Sequoia Capital

Government of Singapore Investment Corporation (GIC)

Singapore

Quantitative Research Intern

Feb 2023 – Jul 2023

- Developed a new portfolio construction methodology based on Monte Carlo simulations and scenario analyses, which was incorporated into GIC's systematic strategies (\$360 billion AUM)
- Constructed a stochastic volatility model to simulate scenarios and price derivatives for Fixed Income and Public Equities
- Formulated efficient convex and numerical optimization procedures (15x increase in efficiency) for finding optimal portfolio exposures and trade structures which helped a team of ~30 traders refine their trading strategies
- Encapsulated these procedures into purpose-built software packages in R and C++

Projects

SearchDestroy: Algorithm to sweep an area with multiple drones in the most time efficient way

- Efficient parametrization of search area and ensuring robustness of algorithm under adversarial interference
- Robust multi-drone search algorithm: DARP + heuristics to handle drone loss and online path re-computation
- Physics simulation and visualization using AirSim; awarded rank 2nd at AGI House Hackathon (Summer 2024)

Moco: App for users to cast a "charm" to protect themselves without having to directly interact with their phone

- 3D motion tracking app built in Python, React and SwiftUI for contactless gesture-based interaction with smartphones
- Awarded Best Overall Hack at HackPrinceton (Fall 2023)

Algorithmic trading of cryptocurrency futures

- Traded 12 cryptocurrency derivatives with a monthly volume >\$1 million and monthly return of 11%
- Statistical analysis of market participants' trading patterns and market microstructure
- Algorithmic trading program in Python to execute trades with 20x leverage with trade frequency <5 minutes

Champions at Brainhack 2020

- Developed a computer vision model (Detectron2 and ModaNet) for clothing identification
- Kernel methods for obstacle detection and path-finding algorithm in Python for autonomous navigation of an obstacle course

Activities & Achievements

- [Gold Medal at the 2020 International Physics Olympiad](#), rank 10 of 170 (gold medal) at the 2019 European Physics Olympiad
- 2023 ICPC Greater NY: Rank 6 of 92; Best Freshman & Sophomore Team
- Ranked top 500 in the 2024 Putnam Competition
- Ranked 12th out of over 9300 participants in the [2022 Shopee Code League](#), also ranked 7th in the 2021 Shopee Code League
- Ranked 2nd of 36 at the 2024 UChicago Trading Competition, 4th of 116 at 2024 Berkeley Trading Competition

Skills and Interests

Skills: Python, C++, Java, R, Mathematica, JavaScript, React, SwiftUI, Databases

Interests: Boxing, climbing, table tennis, foosball, billiards, board games, poker, skiing, travelling, art history