

# JIACHEN (MICHAEL) HUANG

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## EDUCATION

### The University of Chicago

#### Master of Science in Financial Mathematics

Chicago, IL

January 2026

*Courses: Portfolio Theory & Risk Management, Python, Option Pricing, Probability & Stochastic Processes*

### New York University

#### BS in Applied Mathematics & Minor in Mechanical Engineering

New York, NY

May 2024

Dean's list; Member of Mathematical Association of America; NYU Basketball Club Player

*Courses: Multi-Variable Calculus, Microeconomics, Macroeconomics, Nonparametric Statistics, Differential Equations, Applied Complex Variables, Probability, Linear Algebra, Algorithms & Data Structure*

## SKILLS

**Skills:** Java, Python, C, R, Matlab, Microsoft Word, Excel, PowerPoint, Machine Learning, Statistics Modeling

## PROFESSIONAL EXPERIENCE

### SPIC Xianrong Futures Co., Ltd.

Shanghai, CN

#### Quantitative Researcher

June 2024 - Present

- Utilized R and MATLAB to analyze and identify predictive signals on future products including but not limited to Industrial Silicon, Aluminum, and Gold, contributing significantly on weekly and monthly report
- Led a cross-function project to optimize trading algorithms, which increased trade execution efficiency by 15%
- Presented investment opportunities to senior manager, leading to the addition of 3 new high-performing assets to the company's portfolio, generating a combined ROI of 7%

### The Rockwell Financial Group, Inc

White Plains, NY

#### Summer Analyst

May 2023 - August 2023

- Generated a database of high-net-worth individuals using scraped data from websites including Yahoo Finance and Finviz; operated Python packages to fetch the HTML content, parse, and extract the financial data and information
- Constructed financial models leveraging Yahoo finance and 10K/10Q reports; estimated target and risk price, drivers of revenue and costs; performed sensitivity and scenario tests regarding ROIC and profitability on over 150 tech companies using Python (NumPy), R and Excel

### New York University, Polytechnic Tutoring Center

New York, NY

#### Physics Tutor

October 2022 - May 2024

- Provided mock exam, answer keys and answer videos on higher level Physics courses; analyzed student visiting rate and back up homework data from Tutor center deploying Excel; attended bi-weekly meetings to improve tutoring and increased the accuracy of students' homework by 10%

## RESEARCH EXPERIENCE

### WorldQuant Financial Quantitative project

Remote

#### Leader

September 2023 - May 2024

- Practiced back testing principles on IC and IR value to test stability and profitability of chosen alpha factor
- Reached a return rates of 23% by Optimizing trading strategy model based on back testing iteratively

### NYU DURF Grant Research

New York City, New York

#### Researcher

September 2023 - May 2024

- Simulated leapfrogging motion of three or more rings in MATLAB by models such as governing equations
- Visualized period of leapfrogging motion with respect to datasets of numbers of vortex pairs, strengths, widths and separation distances between neighboring pairs; trained models using Monte Carlo simulation
- Optimized data structure to perform ring strength operations and calculations for prediction purpose

### Ant Colony Optimization and travelling salesman problem paper

Philadelphia, Pennsylvania

#### Researcher

August 2021 - March 2022

- Utilized Ant Colony Optimization, Ambient Network, Positive Feedback and Capacitated Vehicle Routing models to simulate traffic situations according to panel data using Matlab; minimized the average waiting time by 35%; published a paper on International Conference on Applied Math, Modelling and Intelligent Computing to provide a solution to improve Shanghai traffic