

Mingyang (Ickle) Zhou

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EDUCATION

University of Michigan

Ann Arbor, MI

Master of Science in Quantitative Finance and Risk Management

Sept. 2023- Dec.2024 (Expected)

- Relevant Courses: Financial Math, Stochastic Process, Linear Programming, Statistics, Computer Science

Huaqiao University

Quanzhou, China

Bachelor of Science in Mathematics and Applied Mathematics

Sept. 2019- Jun. 2023

- GPA: 4.34/5.00; Class Ranking: 3/70
- Relevant Courses: Theory of Probability, Financial Engineering, Mathematical Statistics, Abstract Algebra, Complex-Variable Function, Securities Investment, Mathematical Analysis, Complex-Variable Function

WORK EXPERIENCE

CITIC Securities

Hangzhou, China

Marketing Department Intern

Jul.2022- Aug.2022

- Researched the financial reviews of the securities industry through financial annual reports of different securities companies.
- Presented the investigation report representing all interns.
- Collected, cleaned, and visualized financial data to propose a detailed summary through iFinD software.
- Conducted research on investment prospects with Account Manager and finished 5 products cases.
- Used the historical data of the past five years to fit the portfolio, resulting in a superior product report with both earnings and Sharpe Ratio.

PROJECT & RESEARCH EXPERIENCE

Research on High-Precision Numerical Algorithms or Nonlinear Schrödinger Equations

Project Core Member

Jun. 2021- Jun. 2022

- Analyzed the heat equation in terms of conventional one-dimensional difference scheme method and the barycentric interpolation-CN scheme method.
- Used the barycentric interpolation collocation method to derive the semi-discrete numerical scheme of the one-dimensional Schrödinger Equations and obtained the error estimations for fully discrete schemes.
- Designed the programs of one-dimensional & two-dimensional Schrödinger Equations under barycentric interpolation-CN scheme method and conventional difference scheme method using MATLAB.
- Compared all the methods by performing relevant numerical arithmetic tests and compiled a final report.

Numerical Investigation of Nonlinear Schrödinger Equation Using Barycentric Interpolation Collocation Method

Project Member

Jun. 2021- Jun. 2022

- Discretized the time derivative with the Crank-Nicolson scheme, brought barycentric interpolation functions into spatial discretization, and conducted a consistency analysis of the semi-discrete collocation scheme.
- Used Newton Iterative method to derive the corresponding linear algebraic equations and presented a collocation approach based on barycentric interpolation functions and finite difference formulation to facilitate the approximate solution of nonlinear Schrödinger Equations.

LEADERSHIP EXPERIENCE

Vice President of Huaqiao University Foreign Language Association

Sept.2019- Jun.2021

- Organized 10 English Corner activities with different themes with 60-70 students every time.
- Created the 5 PowerPoint presentations, designed 2 proposals, and compiled the 2 copy writings.
- Spent 1 month to organize each of the following events (100-120 participating students): English Speech Contest, Spring Speech Contest, Movies Dubbing Contest, and English Words Reciting Daily Attendance Activity
- Recruited 441 new members cumulatively and coordinated the internal affairs.

SKILLS

- Technical Skills: MATLAB, R, Python (Pytorch)
- Languages: English (Fluent), Mandarin Chinese (Native)