

# JIAMING HU

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## EDUCATION

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- Expected 12/23 **NEW YORK UNIVERSITY** New York, NY  
**The Courant Institute of Mathematical Sciences**  
**M.S. in Mathematics in Finance**
- **Recent Coursework:** object-oriented programming (Java), data-driven modeling (Python), stochastic calculus, risk modeling for securitized products, portfolio and risk management, Monte Carlo, CAPM, Hull-White model, trading energy derivatives
  - **Forthcoming Coursework:** fixed income derivatives, time series analysis and statistical arbitrage, alternative data in finance, capital and credit derivatives, XVA
- 09/18 - 05/22 **NORTHEASTERN UNIVERSITY** Boston, MA  
**B.S. in Data Science & Mathematics**
- **Coursework:** multivariate calculus, linear algebra, ODEs and PDEs, probability and statistics, stochastic processes, supervised machine learning, SQL, Black-Scholes and Greeks
  - **Honors/Awards:** Cum Laude (Top 10% of class), Dean's List for 7 semesters

## EXPERIENCE

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- 06/23 - 08/23 **U-SHINE INVESTMENT GROUP** Shanghai, China  
(Private fund specializing in fixed income, with \$2.5B AUM)  
**Interest Rate Derivatives Analyst Intern (Python)**
- Gained insight into several interest rate derivatives (T-bond futures, IRS) and explored corresponding trading tactics including calendar spread and basis trade strategies
  - Analyzed structures of various interest rate snowball options; applied Hull-White model and Monte Carlo simulation for pricing; backtested returns under different market conditions
  - Monitored changes in yield curve (e.g., bullish/bearish, flat/steep) and generated trading signals, enhancing traders' decision-making accuracy
- 08/21 - 12/21 **MOYI TECH** New York, NY  
(FinTech firm that automates market research and data analysis)  
**Quantitative Research Intern (Python, Excel)**
- Collected US energy industry data (e.g., market size, growth demand rate, policy support), interpreting 50 of latest industry papers and research reports
  - Collaborated on risk management models and optimization algorithms development using Excel and Python, resulting in 13% overall portfolio variance reduction
  - Performed backtesting, and simulated live trading on proposed strategies using Python; analyzed and reported statistical results (e.g., VaR, Sharpe ratio, drawdown, daily P&L)

## PROJECTS

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- 02/23 - 05/23 **NYU COURANT** New York, NY  
**Enhanced Numerical Methods for Options with Barriers (Python)**
- Identified effective barriers and binomial lattice boundaries; optimized node value of actual boundaries using linear interpolation
  - Performed node backtracking optimization; improved its convergence speed for deriving barrier option value by 10x
- 01/23 - 03/23 **Energy Futures Trading Strategies: Exploring Opportunities and Risks (Python, Excel)**
- Calculated daily P&L of long WTI and RBOB futures while rolling between nearest maturity contract and second closest one, according to CME expiration calendar
  - Optimized carry and momentum strategies on WTI futures and evaluated parameter stability; achieved average annual return of >\$750K per contract after fees deducted for 12-year period
  - Created WTI-RBOB pair trading strategy, which doubled RoMDD compared to trading WTI futures alone, and increased Sharpe ratio by 30%

## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** Python (NumPy, Pandas, SciPy, Scikit-learn, Matplotlib), Java, SQL, R, LaTeX

**Software:** PowerPoint, Excel, Tableau

**Languages:** English (fluent), Mandarin (native)

**Activities:** Discrete Structure Teaching Assistant at Northeastern University