

# YUHENG (FITZ) WANG

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## EDUCATION

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- Expected 12/24 **NEW YORK UNIVERSITY** New York, NY  
**The Courant Institute of Mathematical Sciences**  
**M.S. in Mathematics in Finance**
- **Expected coursework:** OOP and data structure, stochastic calculus, derivatives pricing, risk and portfolio management, linear regression, SVM, deep neural networks, numerical computing, optimization, algorithmic trading, market microstructure, arbitrage trading, time series analysis
- 08/18 - 06/22 **SOUTHEAST UNIVERSITY** Nanjing, China  
**B.Econ. in Financial Engineering**
- **Coursework:** multivariable calculus, statistics and probability, stochastic process, linear algebra, ordinary and partial differential equations, Black-Scholes, database system, machine learning

## EXPERIENCE

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- 07/22 - 11/22 **KAFANG TECHNOLOGY** Shanghai, China  
(Top-tier Chinese high-frequency prop trading firm)  
**Quantitative Research Intern – High Frequency Trading**
- Constructed high-frequency factors based on volume and price data from limit order books; improved 2- and 5-second price dynamic predictions by 1% more than XGBoost benchmark
  - Created data processing tools that received and cleaned backtesting system's tick-level daily exchange data; generated information about main contracts for all Chinese commodity exchanges
- 09/21 - 01/22 **CAUSIS INVESTMENT** Wuhan, China  
(Commodity-trading-advisor hedge fund with \$300M AUM)  
**Quantitative Research Intern – Commodity Trading Advisor**
- Developed new trend trading strategy with volume-price data from steel and chemical future contracts; backtested strategy, resulting in 45% annualized return and Sharpe ratio of 2.1
  - Have generated profit for portfolio, since January 2022, based on new trend trading strategy
  - Built minute-level strategy based on whole commodities market; backtesting resulted in Sharpe ratio of 1.3
- 06/21 - 09/21 **HUATAI SECURITIES** Shanghai, China  
**Quantitative Research Intern – Stock Trading Strategy**
- Predicted log-return on CSI 300 Financials constituent stocks using generative adversarial networks (GAN) with over 70% direction prediction and low RMSE
  - Used Fama-MacBeth regression, PCA, and lasso to portfolio that mimicked 3 macro factors with major asset classes or Citic Industry Index constituent stocks
  - Replicated index performance; selected stocks with more than 0.8 correlation compared to actual index return according to Citic High-Dividend Strategy Index compiling method

## PROJECTS

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- 01/22 - 11/22 **SOUTHEAST UNIVERSITY** Nanjing, China  
**Valuation of Basket Options Under Stochastic Interest Rate and Volatility Smile**
- Developed analytical formula for pricing basket options with stochastic interest rate and volatility smile assumptions; results were consistent with those of Monte Carlo simulations
- 11/21 - 06/22 **First Passage Time (FPT) and Its Application in Finance**
- Deduced closed-form solution for FPT of one-dimension, time-homogeneous diffusion process
  - Built commodity strategy by modeling asset price dynamics via exponential O-U (Ornstein-Uhlenbeck) process; attained annualized return of 25% and Sharpe ratio of 1.0

## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** Python, C++, MATLAB, SQL

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

**Certifications:** Machine Learning A (UCLA Extension), Object-Oriented Data Structure in C++ (UIUC Coursera)