ZHANGYI (OLIVER) WANG

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EDUCATION

Expected 12/23 NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance

• *Coursework:* object-oriented programming (Java), financial modeling, risk management, algorithmic trading, stochastic processes, Fama-French, Black-Scholes

08/18 - 05/22 NEW YORK UNIVERSITY SHANGHAI

- **B.S. in Data Science**, **B.A. in Economics**
 - *Coursework:* deep learning, regression, causal inference, optimization, databases, linear algebra, multivariable calculus, probability and statistics
 - *Honors/Awards:* Dean's List for Academic Year 2020, 2021; NYU Shanghai Excellence Award; Magna Cum Laude

EXPERIENCE

05/23 - 08/23	HERMES CAPITAL ADVISORS	New York, NY
	Quantitative Research Intern (Python, Linux)	
	 Constructed pipelines for capturing and preprocessing real-time millisecond order book depth, book diff, and aggregate trade data for crypto instruments using websocket and exchange APIs Examined ensemble methods based on deep reinforcement learning agents such as A2C, PPO, and RainbowDQN for medium-frequency crypto trading Updated environment for reinforcement learning with larger action spaces and trade matching mechanism for sending limited orders, reducing transaction costs by 0.2% 	
06/22 - 08/22	TURING FUND MANAGEMENT	Shanghai, China
	 nantitative Research Intern (Python) Replicated and examined different versions of AlphaNet (factor mining network) with Keras Conducted single-factor IC testing and multi-layer testing using the latest daily trading data Adjusted inner operators and layers of AlphaNet and improved rank IC by 1% 	
07/21 - 08/21	 INSTITUTE OF INTELLIGENT COMPUTING TECHNOLOGY, CAS Suzhou, China Financial Data Mining and Analysis Intern (Python, Stata) Collected sector index data and examined potential sector linkage and rotation patterns using Apriori algorithm for over 120 industries from 2014 to 2021 Labeled data, extracted, and categorized information contained in financial news and reports for sentiment analysis; contributed to the development of industry mapping knowledge domain 	
PROJECTS		
02/22 - 05/22	NEW YORK UNIVERSITY SHANGHAI Shanghai, China Momentum Strategy with Deep Reinforcement Learning in Chinese Stock Market (Python) • Implemented risk-adjusted momentum strategies using DDPG model, based on first open-source DRL framework, FinRL • Conducted backtesting for automatic trading with SSE 50 constituent stock portfolio	
10/21 - 12/21	 NEW YORK UNIVERSITY SHANGHAI Online Air Ticket Reservation System (Python, MySQL, HTML) Constructed online air ticket reservation system enabling customers, booking finish various tasks including viewing public info and buying tickets using Py 	

Designed web-based application for system, using Flask framework and HTML

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, Linux, MySQL, Stata, Javascript *Languages:* English (fluent); Mandarin (native)

New York, NY

Shanghai, China