YILONG (AARON) ZHOU

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EDUCATION

Expected 12/23 **NEW YORK UNIVERSITY** New York, NY
The Courant Institute of Mathematical Sciences
M.S. in Mathematics in Finance

- ***Expected Coursework:*** stochastic calculus, Brownian motion, Fama-French, Black-Scholes, portfolio management and risk management, risk neutral valuation, lognormal hypothesis

09/19 - 05/22 **STONY BROOK UNIVERSITY** Long Island, NY
B.S. in Applied Mathematics and Statistics

- ***Coursework:*** one-way analysis of variance, regression analysis, algebra of expectations, discrete and continuous probability distributions, multivariate distributions, linear algebra, differential equations, descriptive statistics

EXPERIENCE

09/21 - 12/21 **STONY BROOK UNIVERSITY** Long Island, NY
Undergraduate Teaching Assistant, Data Analysis Course (RStudio)

- Taught class of 50 students online and in person
- Designed different levels of exercises according to students' learning abilities
- Corrected exams and assignments in collaboration with professor
- Summarized students' most important takeaways and questions for discussion with professor

01/22 - 02/22 **Undergraduate Teaching Assistant, Laboratory Statistical Course (RStudio, SAS)**

- Prepared for course with professor; taught over 20 college students online and in person
- Guided students to think about abstract questions and summarize their takeaways

PROJECTS

3/21 - 04/21 **STONY BROOK UNIVERSITY** Long Island, NY
Data Analysis Coursework (R)

- Analyzed 15 beauty product conglomerates' sales statistics
- Produced industry trend reports with R analysis

11/21 - 11/21 **HD EDUCATION**
Financial Markets and Portfolio Management Coursework
(Provides training to Chinese students at 40 US universities) Shenzhen, China and New York, NY (remote)

- Analyzed stocks using Markowitz and index models; identified optimal investment portfolios
- Calculated and compared yield and standard deviation of each portfolio under the two models
- Used data solver in Excel to arrive at maximum Sharpe ratio points
- Completed data visualization and drew diagrams; provided feasible investment suggestions for ordinary as well as risk-averse investors

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Java, Python, R, Excel
Languages: English (fluent), Mandarin (native)