

MINGBAO (MICHAEL) HE

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EDUCATION

- Expected 12/25 **NEW YORK UNIVERSITY** New York, NY
The Courant Institute of Mathematical Sciences
M.S. in Mathematics in Finance
- **Coursework:** object-oriented programming (Python), algorithmic trading, Black-Scholes model, VaR, covariance matrix estimation, Monte Carlo simulation, data-driven models
- 09/20 - 06/24 **UNIVERSITY OF TORONTO** Toronto, Canada
Bachelor of Science of Mathematics and Its Applications (Probability Stats)
- **Coursework:** machine learning, linear algebra, real analysis, time series
 - **Honors/Awards:** Dean's list, graduated with distinction

EXPERIENCE

- 06/23 - 09/23 **ALLIANZ LIFE INSURANCE** Shanghai, China
Leadership Development Intern
- Immersed in rigorous 80 hours of training on insurance regulations and principle; selected from pool of highly competitive candidates
 - Drafted reports, evaluated products, and trained with portfolio manager on investment management fundamentals; gained general understanding of insurance workflow
 - Collaborated with senior management to enhance communication among functional groups, identifying inefficiencies and implementing strategies for improved accountability and efficiency
- 01/23 - 05/23 **HAMILTON HEALTH CENTER** Hamilton, Canada
Data Analyst Intern (Python, SQL)
- Implemented and managed data cleaning pipeline; improving data quality by 55% and significantly increasing efficiency of data extraction process
 - Visualized interactive dashboard of complex product and service data for leaders' critical decision-making; received highly positive feedback from supervisors for process innovation
 - Conducted in-depth statistical analyses on patient data; collaborated with team to identify patterns and trends in health outcomes

PROJECTS

- 01/24 - 05/24 **UNIVERSITY OF TORONTO** Toronto, Canada
The Blocky Game (Python)
- Used Python (e.g., recursive and built-in functions) to ensure game's proper functionality
 - Developed comprehensive test cases to account for all potential scenarios; honed debugging skills to effectively identify and resolve errors
- 01/22 - 05/22 **UNIVERSITY OF TORONTO** Toronto, Canada
Data Analysis and Linear Regression Model Construction (R)
- Developed comprehensive scientific report detailing key factors influencing life expectancy, using linear regression models
 - Applied structured function design methodology to plan, implement, and test functions, enhancing clarity and visual presentation of report

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, SQL, LaTeX

Languages: English (fluent), Mandarin (native)

Activities: VP of Events of Chinese Undergraduate Students' Associations at University of Toronto