

YUYING WANG

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EDUCATION

NEW YORK UNIVERSITY

New York, NY

The Courant Institute of Mathematical Sciences

MS in Mathematics in Finance (expected - Dec. 2020)

- **Current Coursework:** Risk management (market, interest rate, credit risk, VAR and stress testing), OOP in Java, interest rate derivatives and Brownian Motion
- **Future Coursework:** Big data applications, and one-factor models and Black-Scholes formula, applications to stochastic processes, data cleaning, data structure and algorithm, time series analysis, market microstructure and Monte Carlo simulation

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

Champaign, IL

BS in Mathematics and BS in Economics - Minor in Statistics (2015 - 2018)

- **Coursework:** ODE of differential equations, LU and SVD decomposition, Cournot, Stackelberg and Cartel competition model, R, Python and Java/JavaScript programming

EXPERIENCE

Applied Technologies for Learning in the Arts & Science (ATLAS)

Champaign, IL

Data Analysis Intern, Parenthood Expenditure Program (2018 - 2019)

- Cleaned 2 GB 11-year raw files of cigarettes, alcohol and diapers consumption of various stores using R and STATA, deleted missing observations and decided variables included in the model finding factors that might affect people's consumption behaviors after parenthood
- Assessed correlation and linear regression model along time, evaluated whether the chosen variables were significant, summarized updated model and data in weekly meetings
- Discovered and reported the flaws of the model and dataset with improvement suggestions

Marketing/Social Media Analysis Intern, Student Money Management Center (2018)

- Edited and created videos for SMMC's YouTube Channel "ILStudentMoney" using iMovie software, including the videos introducing banking system, saving and checking account and other financial tools in the United States to upcoming international students on campus
- Analyzed viewership data such as the number of subscribers, average watch time duration and traffic sources, created visual graphs in Excel and summarized the trend during summer
- Suggested to repost videos in other social media and rearrange the homepage to increase the views of videos and attract subscribers for the Youtube Channel in the future

GF SECURITY

Zhuhai, China

Summer Intern, Investment Department (2017)

- Used WIND Stock System to collect 7 IPO fund-raising companies' financial statements and annual reports, organized them to an information report to the supervisor
- Assisted colleagues in searching potential mergers for a client by looking into the relative industries and annual reports, making a list of target acquiring companies' basic information

PROJECTS

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

Champaign, IL

AdS/CFT Correspondence and Prisoner's Dilemma (2017 - 2019)

- Self-learned theories in papers of RT formulas, AdS/CFT Correspondence and quantum entanglement, summarized theories and writing the paper using LaTeX
- Presented study and thoughts in front of the professor and PhD students, illustrating the overall ideas of the research, detailed formulas and theories that will be used to create model

COMPUTER SKILLS/OTHER

Programming Languages: Python, Java, Java Script, HTML, R/ R studio, LaTeX

Other Software: Microsoft Office, iMovie, STATA, Eviews

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