

YUXUAN (LEXIE) ZHANG

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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:** OOP in Java, LSTM model, Black-Scholes formula, Ito's lemma, options pricing, derivatives trading, risk-neutral valuation
- 09/18 - 06/22 **BEIJING JIAOTONG UNIVERSITY** Beijing, China
B.S. in Statistics
- **Coursework:** probability, linear regression, stochastic process, machine learning, real analysis, functional analysis, ordinary differential equations, time series analysis
 - **Honors:** National Recognition (team ranked top #65 of 844) in Bayesian Statistics, First Prize in Chinese Undergraduate Mathematical Contest in Modeling (team ranked in top 4% nationwide)

EXPERIENCE

- 07/21 - 09/21 **CHINA GALAXY SECURITIES** Beijing, China
Investment Banking Analyst Intern (Wind, Excel)
- Used conditional stock selection function in Wind (Chinese version of Bloomberg) to find relevant cases for due diligence and transaction evaluation
 - Visualized data with PivotChart; cleaned multiple fixed income securities' data with VLOOKUP
 - Wrote evaluation, referring to prior 3 years' mergers, using precedent transaction analysis
- 12/20 - 02/21 **ACCENTURE** Beijing, China
Technology Consulting Assistant (SAP)
- Collaborated with business planning and consolidation consultant to construct expense budget table in SAP; created 23 logical carding diagrams of cost allocation configuration rules
 - Maintained weekly reports and meeting minutes; listed outstanding issues in group budget; promoted customers' user training progress and optimized speed of system implementation
- 07/20 - 08/20 **PANGUWEB TECHNOLOGY**
(Regional operator of China's largest search engine, Baidu)
- Data Analyst Intern (Power BI, Power Query)** Shijiazhuang, China
- Processed data with Power Query to assess sales volume of different goods for prior 10 years
 - Applied Pareto's rule to analyze sales data; drew waterfall plot in Power BI to visualize changes
 - Analyzed seasonal influence of different goods' sales data for target customers; submitted report to senior managers to facilitate their sales strategy

PROJECTS

- 06/20 - 04/21 **BEIJING JIAOTONG UNIVERSITY** Beijing, China
Empirical Bayesian Estimation in Generalized Censoring Scheme (R, MATLAB)
- Estimated parameters of censored data with Bayesian and E-Bayesian methods based on LINEX and SE loss functions (methods for model optimization)
 - Conducted KS test and implemented Metropolis-Hastings algorithm for simulation study
 - Published two papers in SCI journals: one in [Entropy](#) and one in [Mathematical Problems in Engineering](#)
- 05/20 - 07/20 **HARVARD BUSINESS SCHOOL** Remote
Fintech and Asset Management (Python)
- Utilized DCF model and DuPont analysis methods for Yangjie Technology Co., Ltd.
 - Predicted stock price trends in Python with ARIMA, GARCH, and Holt-Winter models; introduced SVM algorithm to process nonlinear parts of data
 - Tested and removed outliers from ARIMA and SVM models
 - Recommended purchase of Yangjie Technology shares,; which achieved 148% return in forthcoming 1.5 years compared to 6% from CSI 300 Index

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, R, MATLAB, SQL, Wind
Languages: English (fluent); Mandarin (native)