

# XIXIANG HU

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## EDUCATION

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- Expected 12/23 **NEW YORK UNIVERSITY** New York, NY  
**The Courant Institute of Mathematical Sciences**  
**M.S. in Mathematics in Finance**
- **Expected Coursework:** stochastic processes, Black-Scholes & Greeks, Hull-White model, penalized regression, linear regression, Fama-French, object-oriented programming (Java)
- 09/21 - 07/22 **LONDON SCHOOL OF ECONOMICS (LSE)** London, UK  
**M.S. in Data Science**
- **Coursework:** time series, SVM, random forest, boosting, lasso, ridge regression, principal component analysis, Q-learning, Sarsa, distributed computing
- 09/17 - 06/21 **SOUTHWESTERN UNIVERSITY OF FINANCE AND ECONOMICS** Chengdu, China  
**B.S. in Computer Science**
- **Coursework:** corporate finance, derivative financial instruments, Java, database, statistics, data structures, probability, algorithms, machine learning, linear algebra, Hadoop

## EXPERIENCE

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- 07/21 - 09/21 **CAITONG SECURITY** Chengdu, China  
**Wealth Management Intern**
- Researched and identified stocks, fixed income, and bond products in China
  - Gathered information about newly developed fund; analyzed it to facilitate sales to clients
  - Processed and visualized fund and stock data for further survival analysis and presentation
- 07/19 - 09/19 **HUAWEI TECHNOLOGIES** Chengdu, China  
**Product Manager and Service Engineer Assistant**
- Collaborated on 5G base station installation detection and late part signal debugging
  - Collected and organized signal information; marked poor signal areas and relevant base stations; suggested adjustments for nearby base stations
  - Researched relevant theories for antenna feeder systems and 5G and technologies like Hadoop, Spark, and distributed computing for processing large-scale data

## PROJECTS

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- 12/21 - 08/22 **LSE & SIEMENS ADVANTA CONSULTING** London, UK  
**Inventory Optimization (Python)**
- Applied ARIMA and ARIMAX time series models and machine learning methods (Prophet, LSTM) to simulate and predict product order demand over forthcoming 3 months
  - Constructed environment for inventory management process; compared reinforcement learning methods, DQN and Dueling DQN, to optimize reorder points
- 10/21 - 12/21 **LONDON SCHOOL OF ECONOMICS** London, UK  
**Machine Learning Analysis of Songs on Spotify (R)**
- Preprocessed data, using one-hot encoding and lasso regression to adjust features
  - Used logistic regression, random forest, and boosting to explore popularity of each song; accuracy of final result reached 75%
  - Implemented QDA, KNN, and SVM to classify song genres; achieved 90% accuracy

## COMPUTATIONAL SKILLS / OTHER

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**Programming Languages:** Java, Python, R, C, SQL

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