

# Jia Wu

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## EDUCATION

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- **Huazhong University of Science and Technology, Wuhan, CN** Sep 2017 - June 2022  
*Bachelor of Management in Information Management and Information Systems* GPA: 3.84/4.00  
*Main Courses:* Econometrics I,II(90 92), Business Data Analysis and Mining (A), Behavioral Economics(92), Mathematical Modeling (88), Probability Statistics (94), Management Statistics (87), Matlab Applications(97), Operational Management(96), Game Theory(96)

## RESEARCH INTEREST

Social Computing, Business Data Analysis and Sharing Economy

## RESEARCH EXPERIENCE

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- **Empirical Research of Enterprise Participation Mechanism Based on Hackerone** May 2019 - June 2020  
*Core member*  
National Student Research Program, Department of Management Information Systems, HUST
    - **Web Scraping:** Explored multiple web scraping methods with python by stimulating web browser or capturing packet, analysed the rules within Ajax requests to grab related XHRs files and parse the target elements by BeautifulSoup, and finally we stored the hackerone platform data .
    - **Data Analysis:** Conducted 26k+ hackerone platform data preprocessing and analysing with Python, including missing value completion, data normalization, descriptive analysis and data denoising.
    - **Model Establishment:** Established an enterprise performance model based on the Control theory, and conducted regression analysis and hypothesis testing of the modes with SPSS.
  - **Research on the Impact of Major Public Health Emergencies on the Macroeconomic System** Sep 2019 - June 2020  
*Undergraduate Research Assistant*  
System Risk Research Group, Department of Finance, HUST
    - **Data Collection:** Collected the data of the input-output tables of 42 departments latest released by NBS(China) in 2017, and calculated the input parameters of the model.
    - **Modeling and Simulation:** Established a two-stage shock model to study the shock transmission mechanism on the supply side and the demand side based on the I-O network theory, assisted empirical simulation with Matlab, and observed the risk contagion process to verify the conclusions of our model.
  - **Research on the Scheduling Optimization of School Buses** May 2018 - June 2019  
*Team Leader*  
College Student Research Program, Department of Management Information Systems, HUST
    - **Field Research:** Distributed and Received 503 valid questionnaires towards students in 3 areas of campus, and interviewed the captain of school buses to get the information of its operation and scheduling methods.
    - **Model Establishment:** Established a scheduling model based on the satisfaction of both parties on the assumption of the poisson distribution, and calculated the optimal departure frequency of each time period.
    - **Program Designing:** Assisted in the development of the mobile applet for bus positioning using css, html, js.
  - **Dr.Chen Kun's Research Group on Big Data Based Trading in the Financial Market** Aug 2022 - Present  
*Research Assistant*  
Department of Information Systems, School of Business, SUSTech
    - **Web Scraping:** Assisted in crawling data related to our research projects, such as comment data and stock data from Weibo, Xueqiu, and Eastmoney.
    - **Text Processing:** Used NLP in python to preprocess the crawled text data, selected and trained the classification model, and then completed the sentiment analysis process.
    - **Seminar Preparation:** Participated in literature review and seminar report of group's projects, and gradually learned relevant knowledge in empirical research and econometrics.

## PROJECTS

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- **Data Mining and Policy Optimization Using Machine Learning Approaches:** (Team Member, MCM)
    - I. Preprocessed the Amazon Review Dataset containing 10k+ reviews, and quantified the helpfulness and credibility score of each review with linguistic features extracted using NLTK package with Python.
    - II. Presented the keywords visualization model by pyLDAvis in python, pointed out the direction for future product optimization, and finally established a comprehensive product evaluation model combining text analysing by LDA.

## HONORS AND AWARDS

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- Outstanding Graduate, Huazhong University of Science and Technology June 2022
- Honorable Mention of Mathematical Contest In Modeling May 2020
- Third Prize of National College Students' E-commerce "Innovation, Entrepreneurship, Creativity" Competition June 2019
- Self-improvement Student, Huazhong University of Science and Technology June 2018
- Colleg-level Self-improvement Scholarship and Social Welfare Scholarship Winner Sep. 2018

## VOLUNTEER EXPERIENCE

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- Volunteer of the 2019 Wuhan Military Games , Wuhan, CN Sep 2019 - Oct 2019
- Volunteer of International Summer Volunteer Teaching Program, Siem Reap, Cambodia July 2019 - Aug 2019

## SKILLS SUMMARY

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- **Languages:** English(fluent, CET-6 554), Mandarin(native).
- **Skilled Tools:** Proficient in Python (bs4,pandas,web scraping),SPSS;  
Hands-on experiences in Matlab,Eviews,LaTeX
- **Writing Experience:** WeChat Official Account **Sanlian LifeWeek** Amateur Writer  
WeChat Official Account **WeiDu** Lead Author  
School-level News Center Reporter