LI LIU

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LinkedIn | Portfolio | GitHub

EDUCATION

THE UNIVERSITY OF CHICAGO Chicago, IL
Master of Arts in Computational Social Science (Track: Economics), GPA: 3.9 (Expected) Jun 2020

- Awards: Social Science Division Academic Scholarship ($60k)
- Coursework: Computational Modeling and Research, Machine Learning, Quantitative Marketing, Causal Inference, Computational Linguistics, Behavioral Economics, Survey Research Methodology, Python Programming, Spatial Data Science

INDIANA UNIVERSITY Bloomington, IN
Bachelor of Science in Applied Mathematics & Bachelor of Arts in Economics, GPA: 3.6 May 2018

- Awards: Undergraduate Research Grant ($1k), Dean's List, Omicron Delta Epsilon (Economics Honor Society)
- Coursework: Applied Econometrics, Financial Econometrics, Numerical Analysis, Probability and Statistics, Network Analysis

EXPERIENCE

THE UNIVERSITY OF CHICAGO Chicago, IL
Teaching Assistant - Computational Social Science M.A. Program Jan - Mar 2020

- Mentored students during office hours and graded weekly assignments in Python/R for the Computational Modeling course
- Led 4 lab sessions independently on reviewing the concepts, answering questions, and implementing the statistical models in R
- Initiated and maintained a password-protected Shiny web app in R for 40 students to check grades and feedback easily

Student Researcher - Open Source Economics Laboratory Boot Camp Jul - Aug 2019

- Collaborated with other 25 graduate students from top universities to code daily assignments in computational economics
- Learned computational and modeling skills in Python for dynamic economic research and policy analysis

Data Analytics Assistant - Harris School of Public Policy Jan - May 2019

- Introduced the linear sum optimization algorithm to improve the matching results of the Alumni Connect program by 10%
- Researched on modeling graduates' career outcomes and cleaned students' surveys by extracting and transforming features
- Collected information on 150+ potential future donors for the Harris school by scraping and documenting web data in Python

PROJECTS

What Makes Amazon Reviews Trustworthy? Nov 2019- Apr 2020
Evaluated what characteristics of the Amazon reviews form the trustworthiness by aggregating feature selection results from random forest, multiple linear regression, and Lasso regression; Designed a new algorithm to rank reviews for different customers

Preference-Based Recommendation System for Groups Jan - Mar 2020
Invented a ranking model to improve Yelp's restaurants recommendation algorithm for a group of customers with different preferences by text mining and random forest algorithm

Improving Self-Marketing Approaches in Online Dating Oct - Dec 2019
Conceptualized a new algorithm for scoring and providing writing feedback for single users' self-introductions on OkCupid by K-means clustering and structural topic models

Monitoring Developers' Online Behavior on Stack Overflow Apr - Jun 2019
Discovered the trends of 10 programming languages' popularity and users' sentiments in the past 10 years by running the analysis with Hadoop in Google Cloud

LEADERSHIP

- **Team Leader, Harris School of Public Policy Hackathon** (Nov 2019 - Jan 2020): Directed a team of 5 to design and develop a social media platform for students to share their class projects concisely with peers and potential employers; presented the project for 100+ participants and Harris staff; won the best idea award among 13 teams at the hackathon
- **Social Activities Chair, Social Sciences Graduate Student Activities Committee** (Oct 2019 - present): Managed a $7k budget to organize and lead social events for 80 students in the program; collaborated with chairs from other programs to host events
- **Vice President, Chinese Calligraphy Club at Indiana University** (Dec 2015 - Dec 2016): Launched a new club website and edited monthly newsletters for promoting the events; increased the number of weekly workshop participants by 30%; raised 2k+ revenue by selling the handwritten Spring Festival Couplets to IU students in one month

SKILLS

- **Programming Languages**: 2-year **Python** & **R** & **SQL** experience
- **Software & Tools**: Proficient in Microsoft Excel, Git, Tableau, Stata