YIXUAN LIU

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EDUCATION

Southern University of Science and Technology (SUSTech)

Shenzhen, China

M.S. in Statistics, Department of Mathematics

Sept. 2020 – Expected June 2022

GPA: 3.64/4.00 (top **3/15**)

Related courses: Advanced statistics (A+), Functional Data Analysis (A+), Categorical Data Analysis (A+), Social Network Analysis (A-), Selected Research Topics in Statistics (A-)

Southern University of Science and Technology (SUSTech) Shenzhen, China Sept. 2016 – June 2020 B.S. in Statistics, Department of Mathematics GPA: 3.37/4.00 **University of Wisconsin-Madison (UW-Madison)** Madison, WI, US Visiting International Students Program Statistics Cohort Sept. – Dec. 2019 **GPA: 3.75**/4.00 Illinois Institute of Technology (IIT) Chicago, IL, US Summer Research Program GPA: 4.00/4.00 July – Aug. 2019 King's College London (KCL) London, UK Summer Program (Healthcare and Technology)

Mark: 65

STANDARDIZED LANGUAGE TEST

TOEFL iBT Test: 27 Reading + 27 Listening + 25 Speaking + 26 Writing, Total 105

GRE General Test: Verbal 158 (80th percentile) + Quantitative 166 (89th percentile), Total 324

RESEARCH EXPERIENCES

Quantifying Award Network and Career Development in Movie Industry

Mar. 2021 – Present

July – Aug. 2018

Supervisor: Prof. Yifang Ma, Department of Statistics and Data Science, SUSTech, China

- Constructed and analyzed multilayer networks of prize, award winners and social ties with network-based statistics
 - Quantified early career prize winning through classification methods including Logit and complementary log-log

Statistical Learning on Giant Pandas' Ethology

Nov. 2019 – May 2020

Supervisor: Prof. Yifang Ma, Department of Statistics and Data Science, SUSTech, China

- Applied unsupervised learning including hierarchical, partitional, spectral clustering and density-based methods
- Conducted the temporal data clustering with various distance measures including DTW, SDB and GAK
- Applied fuzzy-c means to explore the delayed reaction to the variation of time

eTailers' Revenue Models and Customer Behavior Analysis Based on Big Data

Dec. 2018 – Sept. 2019

Supervisor: Prof. Jae Kyu Lee, College of Business, KAIST University, Korea & Xi'an Jiaotong University, China And Prof. Jooyoung Park, PHBS Business School, Peking University, China

- Processed survey data, implemented linear and nonlinear regressions and residual analysis by R
- Figured out association rules and collaborative filtering behind the products displayed
- Attended ICEC 2019 (International Conference on Electronic Commerce), Korea as co-author and presenter

PROJECTS

Functional Data Analysis of Fruit Fly and Life Table

Shenzhen, China

Class Instructor: Prof. Jiangqing Shi, Department of Statistics and Data Science, SUSTech, China Mar. – June 2021

- Fitted with appropriate basis and dimension reduction with PLS, functional PCA, dynamic fPCA
- Created and compared different scalar-on-function models, functional time series models and etc.

Latent Variable Models for Mixed Normal and Binary Outcomes

Chicago, IL, US

Supervisor: Prof. Lulu Kang, Department of Applied Mathematics, IIT, US

July – Aug. 2019

- Researched on parameter estimation for latent variable models by EM algorithm
- Implemented the Monte Carlo approach combined with EM algorithm to estimate parameters through Python
- Studied the latent variable model in fields of mixed continuous and ordinal responses

Multivariate Analysis on Disease Prevalence and Control

Madison, WI, US

Class Instructor: Prof. Wei-Yin Loh, Department of Statistics, UW-Madison, US

Sept. – Dec. 2019

- Clustered data and explored on geolocation's effect on clusters of cities by spatial visualization, and proximity
- Discovered latent relationships between disease prevalence and control approaches by Canonical Analysis

TEACHING EXPERIENCES

- 2021 Teaching assistant of STA216-Introduction to Data Science @SUSTech
- 2021 Teaching assistant of MA409-Statistical Data Analysis (SAS) @SUSTech
- 2020 Student Mentor of Studying Consulting Service @SUSTech
- 2020 Teaching assistant of MA309-Time Series Analysis @SUSTech
- 2018 Student assistant at CLE (Centre of Language Education) @SUSTech

HONORS & AWARDS

2020 Outstanding Graduation Thesis Award at SUSTech

- 2019 Innovative Research Paper Runner-Up (3rd author) in 21st International Conference on Electronic Commerce hosted by International Center for Electronic Commerce
- 2019 Grand Prize Award in the Preliminary Round of 2019 "FLTRP ETIC Cup" English Writing Contest
- 2019 Best Speaker of Preliminary contest in 22nd "FLTRP ETC Cup" National Debating Competition
- 2018 Meritorious Winner in American Mathematical Contest in Modeling (MCM) (Award top 13%)
- 2017 First Prize in 18th Guangdong Physics Experimental Design Competition (Award top 5%)

PROGRAMMING & SOFTWARE SKILLS

Python, R, MATLAB, Latex, Stata