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 **GPA: 3.37**/4.00 Sept. 2016 – June 2020

B.S. in Statistics, Department of Mathematics

Madison, WI, US

University of Wisconsin-Madison (UW-Madison) Visiting International Students Program Statistics Cohort

GPA: 3.75/4.00 Sept. – Dec. 2019

Illinois Institute of Technology (IIT)

Chicago, IL, US July – Aug. 2019

Summer Research Program

GPA: 4.00/4.00

King's College London (KCL)

Mark: 65

London, UK July – Aug. 2018

STANDARDIZED LANGUAGE TEST

Summer Program (Healthcare and Technology)

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

CET 4 (Chinese College English Test): 641 (top 5%); CET 6: 580

RESEARCH EXPERIENCES

Quantifying Award Network and Career Development in Movie Industry

Mar. 2021 – Present

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

- Fit 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

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

Madison, WI, US Sept. – Dec. 2019

- Grouped cities into clusters according to measures of disease prevalence and control
- 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

2020-2021 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