

YONGSHEN HE

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Research interest: text mining, scientific mobility, computational social science, applied statistics.

EDUCATION

M. Sc., Statistics & Data Science, **Southern University of Science and Technology(SUST)**
GPA: 3.45/4.5

Shenzhen, China
2021.9 - ongoing

B. Sc. - Statistics, **Shenzhen University**
GPA: **4.15**/4.5, ranking **1**/45.

Shenzhen, China
2017.9 - 2021.6

PUBLICATIONS

Yongshen He, Yurui Huang, Chaolin Tian, Shibing Xiang, Yifang Ma*. Neural Embeddings of Scientific Mobility Reveal the Stratification of Institutions in China. Information Processing & Management.

under review

Yurui Huang, Jialong Guo, Chaolin Tian, Shibing Xiang, **Yongshen He**, Yifang Ma*. Domestic Brain Circulation in China. Scientometrics.

under review

RESEARCH EXPERIENCE

Semantic-Based Study on the Mobility of Researchers and the Shift of Research Interests
Master thesis, supervised by assistant professor [Yifang Ma](#)

Shenzhen, China
2022.7 - on going

- Implemented topic classification task combining document embedding techniques of TF-IDF, word2vec and SPECTER with classifier of logistics regression, random forest and supporting vector machine.
- Embedded institutions into a low dimensional space combining word2vec and UMAP based on the scientists' moving trajectories.
- Conducted an empirical analysis of the effect of scientific mobility on the shift in research interests via propensity score weighting.

Short Text Clustering Based on Word2vec Model

Bachelor thesis, Supervised by associate professor [Songchen Li](#)

Shenzhen, China
2020.11 - 2022.5

- Compared different document representation methods of word2vec embeddings clustering methods in clustering titles of articles.

Health Information Recommendation Decision Based on Machine Learning

Leader of a funding project, Supervised by associate professor [Yingjue Fang](#)

Shenzhen, China
2018.11 - 2020.5

- Designed neural networks of Fasttext and TextCNN to distinguish the health news from the news on other topics.

COURSE PROJECT

Statistical Graph Models on Community Detection

Instructor: associate professor [Qingyan Hu](#)

Shenzhen, China
2022.2 - 2022.6

- Detected communities in the binary network with the probability-base model.

High Dimensional Statistics on Square-root LASSO

Instructor: associate professor [Zeng Li](#)

Shenzhen, China
2022.2 - 2022.6

- Derive Conic Programming and CCD algorithm to solve the square-root LASSO.
- Implement simulate study to compare the rates of precise and recall of both LASSO and square-root LASSO.

Categorical Data Analysis on American National Election Survey

Instructor: associate professor [Xiyun Jiao](#)

Shenzhen, China
2022.2 - 2022.6

- construct binomial regressions of different link functions to estimate the effect on the vote in the presidential election.
- utilize AIC criteria to select of the vital factors of the vote.

HONOR

Outstanding Graduate in Shenzhen University
First Prize Scholarship in Shenzhen University

2021
2018-2021

TEACHING EXPERIENCE

Network Science and Computing, Teaching Assistant, SUST.
Bayesian Statistics, Teaching Assistant, SUST.

2022.2 - 2022.6
2022.2 - 2022.6

RESEARCH INTEREST, LANGUAGE AND SKILL

Languages: CET-6 532, Chinese (Mandarin, Cantonese).
Skills: Python, R, Latex.