

Jing Zeng

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in Jing Zeng

Education

- Aug 2017 - **Florida State University, Tallahassee, USA,**
May 2022 *Ph.D. Candidate*, Statistics, Department of Statistics.
GPA: 4.0/4.0
- Sep 2013 - **University of Science and Technology of China, Hefei, China,**
June 2017 *Bachelor of Science*, Probability and Statistics, School of Mathematical Sciences.
GPA: 3.72/4.3

Skills

- Languages R (3+ years), Python, MATLAB, C, LaTeX, SQL
- Utilities Git, Linux, HPC, R package writing, Jupyter Notebook, Python scientific packages (numpy, pandas, scikit-learn, keras, etc)

Publications

- July 2020 Li, L., Zeng, J. and Zhang, X. "Generalized Liquid Association Analysis for Multimodal Neuroimaging", submitted.
- Feb 2020 Zeng, J., Mai, Q. and Zhang, X. (2020). Subspace Estimation with Automatic Dimension and Variable Selection in Sufficient Dimension Reduction, submitted.
- July 2019 Zeng, J., Wang, W. and Zhang, X. (2019). TRES: An R Package for Tensor Regression and Envelope Algorithms, submitted.

Projects

- Jan 2018 - **Subspace Estimation with Automatic Dimension and Variable Selection (SEAS)**, Prof. Xin
Feb 2020 *Zhang.*
- Proposed a unified and flexible framework for estimating the sufficient dimension reduction (SDR) subspace in high dimensions, where the subspace is assumed to involve only a part of predictors.
 - Extended many existing low-dimensional SDR methods to high dimensions
 - Formulated the problem as a quadratic convex optimization and proposed the corresponding efficient algorithm
 - Provide the theoretical proofs for both dimension selection and variable selection consistency.
 - Successfully improved the prediction performance on some high-dimensional data sets, e.g., gene expression data.
- June 2019 - **R package: TRES [github]**, Dr. Wenjing Wang, Prof. Xin Zhang.
- Dec 2019
- Standardized some functions in the first version.
 - Wrote several S3 methods.
 - Solved all the issues and bugs in the first version.
 - Rewrote the help documentations to provide more useful information.
- June 2019 - **Kaggle: TMDB Box Office Prediction [github]**, Self-motivated.
- Sep 2019
- Processed textual raw data in the dataset, constructed a large numerical dataset by exploratory data analysis and feature engineering with the techniques like label-encoding, word-cloud, etc.
 - Built Gradient Boosting Decision Tree model to predict the revenue of movies, using Python packages XGBoost, LightGBM and CatBoost. And further improved the performance by blending and stacking.

Professional Experience

- July 2020 **Presenter**, INTERNATIONAL CONFERENCE ON ECONOMETRICS AND STATISTICS (ECOSta), Seoul,
(upcoming) South Korea.
Invited talk.
- July 2019 **Presenter**, JOINT STATISTICAL MEETINGS (JSM), Denver, CO.
Contributed talk: *A General Framework for Sparse Sufficient Dimension Reduction.*

- Aug 2019 - **Seminar organizer**, FLORIDA STATE UNIVERSITY.
- Dec 2019
- o Organized the seminar with the topic: *High-dimensional data and dimension reduction*.
 - o Gave the presentations about my research and some self-studied skills, which intrigued the members' interests.
- June 2019 - **Research assistant**, FLORIDA STATE UNIVERSITY.
- Present
- o Conducted two projects with Prof. Xin Zhang and help organize the seminar successfully.
 - o Published the R package TRES on CRAN.
 - o Submitted two papers to *Annals of Statistics* and *Journal of Statistical Software* separately.
- Aug 2017 - **Solo instructor & Teaching assistant**, FLORIDA STATE UNIVERSITY.
- May 2019
- o Independently taught two sections with four classes a week, 50 mins per class.
 - o Organized the group activity in class and successfully activated the students.
 - o Achieved around 5/5 median evaluation score.
- Jul 2016 - **Summer intern**, INDUSTRIAL AND COMMERCIAL BANK OF CHINA, Hefei.
- Aug 2016
- o Cooperated with other staff in a group and studied the application of system maintenance in bank system.
 - o Used SQL (with software MySQL and Oracle) to process data.

Achievements

- Jan 2020 **Outstanding Teaching Assistant Award (OTAA) nomination**, FLORIDA STATE UNIVERSITY.
- Oct 2018 **Best First Year Student in Applied Statistics Award (top 10)**, FLORIDA STATE UNIVERSITY.
The award is presented in recognition of outstanding achievement as a graduate student.
- Sep 2015 **Scholarship for Outstanding Students, Third Prize (top 20%)**, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA.
- Sep 2014 **Scholarship for Outstanding Students, Second Prize (top 10%)**, UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA.

Relevant Courses

- Online Advanced Machine Learning, Neural Networks and Deep Learning, Intro to SQL for Data Science.
- Classroom Computational Methods in Statistics, Advanced Probability and Inference, Application in Statistics (Linear Regression and Generalized Linear Model), Time Series Analysis, Stochastic Process, Non-parametric Statistics, Real Analysis, Complex Analysis, Functional Analysis, Differential Equation, Computer Programming (C and C++), Data Structure and Database.