Jiaxin Hu

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Education

- **Department of Statistics, University of Wisconsin-Madison (UW-Madison)**   Madison, USA
  M.S. in Data Science   Sep.2018* - May.2020(Expected)
  Overall GPA: 3.926/4.0
  Core Courses: Statistical Inference(A), Statistical Method(A), Statistical Learning(A), Nonlinear Optimization
- **School of Mathematics and Statistics, Wuhan University**   Wuhan, China
  B.S. in Statistics   Sep.2015 - Jun.2019
  Overall GPA: 3.77/4.0   **Rank:** 7/50
  Core Courses: Advanced Algebra, Mathematical Analysis (96), Numerical Analysis (100), Probability Theory (94), Mathematical Statistics, Real Analysis, Stochastic Processes (92).
  ***One-year graduate education in UW-Madison as an undergraduate of Wuhan University.   Sep.2018 - Jun.2019

Publications

- Z.Xu*, **J.Hu*** and M.Wang (2019). *Generalized tensor regression with covariates on multiple modes*. Under review in the Journal of Machine Learning Research W & CP (AISTATS track). arXiv:1910.09499 [stat.ME].
- Z.Xu*, **J.Hu*** and M.Wang (2019). R package `tensorregress`: Generalized Tensor Regression with Covariates on Multiple Modes. Published on the Comprehensive R Archive Network.   *equal contribution

Presentations

- **Poster Presentation.** Presented to faculty from the Department of Biological Medicine Information/Statistics/ Computer Science in the UW-Madison. Annual Retreat of the Computation and Informatics in Biology and Medicine (CIBM) Training Program and the Bio-Data Science (BDS) Program. Madison, WI.   Oct.2019

Research Experiences

Research Assistant, **Tensor Research**   Feb. 2019 - Present
Advisor: *Prof. **Miaoyan Wang** (Department of Statistics, University of Wisconsin-Madison)*
General & Summer Reading Group

- Provided progress for the ongoing projects on weekly meetings. Presented relevant papers on group discussions.
- Attended weekly seminars with various statistical topics held by the Department of Statistics, UW-Madison.
- Read papers and gave 60-minute presentations for papers by **T.Tony Cai**, *et.al.* and **Andrea Montanari,** *et.al.*
- Led group discussions on the related topics. Wrote formal peer reviews for each presentation given by cohorts.

Tensor Regression

- Proposed a generalized tensor regression model with covariates on multiple modes and a rank-constrained likelihood estimation for the tensor-form coefficient. Proved the statistical convergence property of the estimate.
- Developed and implemented an optimization algorithm. Built an R package for practical application.
- Ran designed simulations. Applied our method to brain network analysis and multi-relationship network.
- Drafted original manuscripts of the submitted paper (currently under review).

Project Member, **Yelp data Analysis**   Oct.2019 - Present
Advisor: *Prof. **Hyunseung Kang** (Department of Statistics, University of Wisconsin-Madison)*

- Applied Natural Language Processing method to investigate latent sensitive information from customer reviews.
- Provided the main idea to construct an application for restaurant assessment facing business owners.

Project Member, **Premier League data Analysis**   Sep.2018 - Nov.2018
Advisor: *Prof. **Sebastian Raschka** (Department of Statistics, University of Wisconsin-Madison)*

- Performed Principal Component Analysis and Clustering to find football team clusters in different aspects.
- Implemented Softmax and Decision Tree to indicate the importance of each team feature.

Awards

- Exchange & Visiting International Student Academic Excellence award of UW-Madison.   May.2019
- Second-Class Scholarship for Excellent Students at Wuhan University (5/51).   Oct.2016/2017/2018
- First Prize of E Ming Cup Debate Competition of Wuhan University.   Dec.2015