Quan Zhang

Department of Accounting and Information Systems   (Updated January 2022)
Broad College of Business, Michigan State University
632 Bogue St Rm N253
East Lansing, MI 48824
Email: quan.zhang@broad.msu.edu
Homepage: https://zhangquan-ut.github.io

EDUCATION

- Ph.D. in Information, Risk, Operations Management   August 2020
  the University of Texas at Austin, Austin, TX, U.S.
- Master of Science in Biostatistics (Ph.D. study)   May 2015
  the University of Minnesota, Minneapolis, MN, U.S.
- Bachelor of Science in Biology and Economics   July 2012
  Peking University, Beijing, China

EMPLOYMENT

Assistant professor, Department of Accounting and Informations Systems
Broad College of Business, Michigan State University   August 2020 – present

RESEARCH INTEREST

Methodology
- Statistics, machine learning, interpretable learning, Bayesian inference, nonparametric Bayes, variational inference

Application
- Telemedicine, quant marketing, online finance (particularly crowdfunding), medical data analysis, clinical trial

WORKING PAPERS

1. Inkyu Kim, Quan Zhang, Julie Ryan Wolf and Brian Pentland, "Synchronization and Duration of Work Processes in Complex Service Organizations." Submitted to Management Information Systems Quarterly, major revision.

2. Quan Zhang and Zhuping Liu, "Reining in Online Returns: a Hawkes Process for Consumer Behavior Dynamics" Preparing for submission.

3. Quan Zhang, Huangjie Zheng and Mingyuan Zhou, "MCMC-Interactive Variational Inference." Preparing for submission.

WORKING IN PROGRESS

1. "Understanding Patients' Behavior Dynamics and Demands in Telemedicine."

2. "Weibull Racing Survival Analysis with Competing Events and Time-varying Covariates."

REFEREED PUBLICATIONS

Tianci Liu, **Quan Zhang**, and Qi Lei, "PANOM: Automatic Hyper-parameter Tuning for Inverse Problems." ***NeurIPS 2021 Workshop on Deep Learning and Inverse Problems*** (2021).

Quan Zhang and Mingyuan Zhou, "Nonparametric Bayesian Lomax Delegate Racing for Survival Analysis with Competing Risks." ***Advances in Neural Information Processing Systems*** (2018).

Quan Zhang and Mingyuan Zhou, "Permuted and Augmented Stick-Breaking Bayesian Multinomial Regression." ***Journal of Machine Learning Research*** (2018): Vol. 18(204) 1-33.

Quan Zhang, Youssef Toubouti and Bradley Carlin, "Design and analysis of Bayesian adaptive crossover trials for evaluating contact lens safety and efficacy." ***Statistical Methods in Medical Research*** 26.3 (2017): 1216-1236.

Teaching | ITM 885 *Machine Learning and Optimization*, Michigan State University   Fall 2020
STT 805 *Statistical Modeling for Business Analytics*, Michigan State University Summer 2021