JIAYI WANG

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EDUCATION

Texas A&M University
Ph.D. in Statistics

Aug 2017 - Present
(GPA: 4.00/4.00)

Advisor: Dr. Raymond K.W. Wong

Zhejiang University, China

Jul 2013 - Jun 2017

B.S. in Statistics (GPA: 3.94/4.00)

RESEARCH INTERESTS

· Functional Data

- · Low-rank Modeling
- · Causal Inference
- · Reinforcement Learning

PUBLICATIONS AND PREPRINTS

- · Jiayi Wang, Raymond K.W. Wong, Xiaojun Mao, and Kwun Chuen Gary Chan. (2021+). Matrix Completion with Model-free Weighting. *International Conference on Machine Learning (ICML)*, to appear. Link
- · Jiayi Wang, Raymond K.W. Wong, Xiaoke Zhang.(2021+). Low-rank Covariance Function Estimation for Multidimensional Functional Data. *Journal of the American Statistical Association*, to appear. Link
- · **Jiayi Wang**, Raymond K.W. Wong, Shu Yang, and Kwun Chuen Gary Chan. (2021). Estimation of Partially Conditional Average Treatment Effect by Hybrid Kernel-covariate Balancing. *arXiv*. Link
- · **Jiayi Wang**, Raymond K.W. Wong, Mikyoung Jun, Courtney Schumacher, R Saravanan, Chunmei Sun.(2021). Statistical and Machine Learning Methods Applied to the Prediction of Different Tropical Rainfall Types. *Earth and Space Science Open Archive (ESSOAr)*. Link

TEACHING

Instructor

· Stat 201: Elementary Statistical Inference

Summer 2021

 An introductory course that focuses on critical analysis of real-life statistics on concepts over mathematical computation.

Teaching Assistant

· Stat 614: Probability for Statistics (graduate level)

Fall 2021

· Stat 648: Apllied Stat & Data Analysis (graduate level)

Spring 2021

· Stat 612: Theory of Linear Models (graduate level)

Fall 2020, Fall 2021

· Stat 404: Statistical Computing

Spring 2020

PROFESSIONAL EXPERIENCE

Internship

· Data Scientist Internship at Amazon, Modeling & Optimization Team

Summer 2020

- Constructed a predictive model for the late deliveries via Catboost and neural network modeling.
- The predictive model is applied to the European delivery system to improve customer service.

Research

· Research Assistant for the Department of Atmospheric Sciences, TAMU

June 2018 - present

- Explored multiple data compression methods, including PCA, auto-encoder, SDR to interprete high-dimensional atmospheric variables.
- Explored various machine learning methods (Random Forest, lightGBM, and deep learning) to model tropical rain occurrence and rain amount.
- Compared statistical models (generalized linear models) and machine learning methods in characterizing the tail of rain amount density.
- · Global Engagement in Academic Research (GEAR) at NC State University

Summer 2016

- Developed time series models to analyze and predict the frequency of data breach.
- Developed a Bayesian linear model to evaluate the size of data breach.

PRESENTATIONS

· Poster Presentation

Summer 2021

- International Conference on Machine Learning (ICML)
- · Student Paper Award Talk

Summer 2020

- Joint Statistical Meetings (JSM)
- · Student Research Talk

Spring 2021

- Stat Cafe at the Department of Statistics, TAMU

AWARDS AND HONORS

· Best Student's Paper Award

2020

- Nonparametric Section, American Statistical Association(ASA)
- · Endeavour Cheung Kong Student Exchange Program Awards - University of Melbourne

2016

- · National Scholarship - Zhejiang University

2014

- -2% winning rate

TECHNICAL STRENGTHS

Languages

Mandarin, English

Softwaresv& Tools

R, Python, C, Matlab, SQL, LaTeX