SHANGSHU ZHAO

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EDUCATION

University of Pittsburgh *August 2019 - May 2021*
Master of Science in Statistics
Dietrich School of Arts and Sciences

ShanghaiTech University *September 2015 - June 2019*
Bachelor of Science in Physics
School of Physical Science and Technology

PUBLICATION

Estimation and Inference in Metabolomics Data with Non-ignorable Missing Values
Master Thesis *April 2021*

My current research area is about estimation and inference in clinical data with missing values. More specifically, clinical metabolomics data with unobserved values is out main research target. We've designed a novel probabilistic model for missing values based on both experimental facts and statistical results.

Based on this missing mechanism, my thesis proposed an novel algorithm that could significantly increase the estimation power and keep up the computing efficiency at the same time.

Online Optimal Task Offloading with One-bit Feedback *September 2018*
Authors: Shangshu Zhao, Zhaowei Zhu, Fuqian Yang, Xiliang Luo IEEE GlobalSIP Conf.

OTHER ACADEMIC EXPERIENCE

Research Assistant *October 2019 - April 2021*

Studied the clinical data with missing values. Developed an novel algorithm to increase both power and efficiency for data mining in clinical metabolomics data with a significant part unobserved.

Teaching Assistant *January 2020 - April 2020*

TA for STAT 0200: Basic Applied Statistics in University of Pittsburgh. Responsible for weekly recitations.

Conference Attendance *November 2018*
Attended the 2018 IEEE Global Conference on Signal and Information Processing in Los Angeles and offer an oral presentation about our paper.

Visiting Student *October 2017 - January 2019*

Studied in Multi-armed bandit problem, specifically the UCB-algorithm. Inspired by the spirit of UCB, developed a novel algorithm in task-offloading problem in edge computing/IoT.

SKILLS

Programming Language

Python, R, MATLAB