SHANGSHU ZHAO

(412) · 999 · 9175 ⬦ shz121@pitt.edu

Shadyside ⬦ Pittsburgh, PA, 15217

EDUCATION

University of Pittsburgh   Pittsburgh, PA, USA

Master of Science in Statistics   *August 2019 - April 2021*

Dietrich School of Arts and Sciences

Thesis: Estimation and Inference in Metabolomics with Nonignorable Missing Data

ShanghaiTech University   Shanghai, China

Bachelor of Science in Physics   *September 2015 - May 2019*

School of Physical Science and Technology

Thesis: Vacuum Control System Design Based on PLC

PUBLICATION & PRESENTATION

Accurate, Efficient, and Scalable Inference in Metabolomics Data   *December 2021*
with Non-ignorable Missing Observations

In Writing

Authors: **Shangshu Zhao**, Chris McKennan

Online Optimal Task Offloading with One-bit Feedback   *September 2018*

2018 Global Conference on Signal and Information Processing

Authors: **Shangshu Zhao**, Zhaowei Zhu, Fuqian Yang, Xiliang Luo

Optimal Task Offloading in Fog-enabled Networks via Index Policies   *September 2018*

2018 Global Conference on Signal and Information Processing

Authors: Fuqian Yang, Zhaowei Zhu, **Shangshu Zhao**, Yang Yang, Xiliang Luo

Oral Presentation   Anaheim, CA, USA

Title: Online Optimal Task Offloading with One-bit Feedback   *September 2018*

2018 Global Conference on Signal and Information Processing

Presentor: **Shangshu Zhao**

RESEACH INTEREST

Metabolomics, Missing data, Penalized Likelihood Model, Bayesian Inference

RESEARCH EXPERIENCE

University of Pittsburgh   Pittsburgh, PA, USA

Graduate Research Assistant   *October 2019 - Present*

Supervisor: **Prof. Chris McKennan**

· Investigated Metabolomics data model with nonrandom missing values.

· Designed new method for analysing Metabolomics data.

· Investigated clinical metabolomics data about asthma.

University of California Santa Cruz   Santa Cruz, CA, USA

Graduate Research Intern   *June 2021 - November 2021*

Supervisor: **Prof. Yang Liu**

· Studied weakly supervised machine learning.
· Implemented Co-training Algorithm using PyTorch on Image Classifying.
· Investigated traditional Co-training with others Noisy Learning methods

ShanghaiTech University   Shanghai, China
Undergraduate Research Assistant   *October 2017 - January 2019*
Supervisor: **Prof. Xiliang Luo**

· Studied in Multi-armed bandit problem, specifically the UCB-algorithm.
· Developed a algorithm in task-offloading problem in edge computing/IoT.

ShanghaiTech University   Shanghai, China
Undergraduate Research Assistant   *October 2017 - January 2019*
Supervisor: **Prof. ZhongKai Liu**

· Studied in Programmable Logic Controller (PLC).
· Developed a control system for lab equipment and deployed

TEACHING EXPERIENCE

University of Pittsburgh   Pittsburgh, PA, USA
Teaching Assistant   *January 2020 - April 2020*

· Course: STAT 0200 Basic Applied Statistics
· Responsible for weekly recitations for a total of 80 students.
· Answer questions about lectures and homework.

PROFESSIONAL STRENGTHS

Computer Languages	R, Python, Matlab, Julia
Machine Learning Framework	PyTorch

SELECTED COURSES IN STATISTICS

APPLIED STATISTICAL METHODS 1	A+
APPLIED STATISTICAL METHODS 2	A-
INTERMEDIATE PROBABILITY	A
INTRO TO BAYESIAN STATISTICS	A
BAYESIAN ANALYSIS	A

REFERENCE

Prof. Chris McKennan   Department of Statistics
Assistant Professor   University of Pittsburgh
Email: chm195@pitt.edu

Prof. Tingting Zhang   Department of Statistics
Associate Professor   University of Pittsburgh
Email: tiz67@pitt.edu

Prof. Xiliang Luo   School of Information Science and Technology
Associate Professor   ShanghaiTech University
Email: luoxl@shanghaitech.edu.cn