

The Pennsylvania State University

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Education

The Pennsylvania State University

University Park, PA

MASTER OF SCIENCE IN INFORMATICS, CONCENTRATION ON DATA SCIENCE

August 20201 - current

- GPA:3.72
- Advisor: Justin Silverman
- Course: Data Mining, Adversarial Machine Learning, Deep Learning, Compiler Construction

Soochow University

Suzhou, China

Sep. 2016 - June 2020

BACHELOR OF SCIENCE IN PHYSICS

- **GPA**:3.4/4.0, top 15%
- Advisor:Chengjie Zhang

Experience _____

Justin Silverman's Lab in Penn State University

State College, US
Oct 2021 - Current

STUDENT RESEARCHER

- · Research on error in high-dimensional models.
- · Develop a novel method to evaluate the feasibility of an estimator, especially with gene expression data.

Quantum Information Laboratory of Soochow University

Suzhou, China July 2017 - May 2019

RESEARCH ASSISTANT

- · Develop a method to detect quantum coherence theoretically.
- Conduct some experiment to verify the theory.
- The research result was published in Physical Review A.

Suzhou Juhe Data Suzhou, China

DATA ANALYST INTERN

July 2019 - Sep. 2019

- Collect data from various platforms and clean the data.
- · Visualize data and analyze the effects of advertisement.
- Give advice on advertising strategy.

Projects ___

The Impact of Spontaneous Protection on the Spread of Epidemics

- Use the Equíluz and Zimmermann model to simulate human dynamics.
- Simlulate the evolution process of the epidemics where population evolves with different parameters and different cost-to-benefit ratios.
- · Analyze the possible mechanisms that cause the features observed in the epidemic process.

Skills _____

Techniques Machine Learning, Mathematical Modeling, Python, C, MATLAB

Honors ___

- Advanced Mathematics Competition Second Prize
- Academic Excellence Award
- · Outstanding Student Cadre

Publication _

 Zhao Ma, Zhou Zhang, Yue Dai, Yuli Dong, and Chengjie Zhang, "Detecting and estimating coherence based on coherence witnesses", Phys. Rev. A 103, 012409, 2021. DOI:https://doi.org/10.1103/PhysRevA.103.012409