Education

University of California Los Angeles

3RD YEAR PHD STUDENT IN STATISTICS

GPA: 4.0/4.0

The Pennsylvania State University

DOUBLE MAJOR IN STATISTICAL DATA SCIENCE AND APPLIED STATISTICS

DOUBLE MINOR IN MATH AND KOREAN

Overall GPA: 3.83/4.0

Dean's List: 2017, 2018, 2019, 2020

Skills

Python, R, SQL, SAS, Java **Programming**

Causal Inference, Machine Learning, Computer Vision, Deep Learning, Data Visualization Statistical Techniques

Data Management, Database Design, Web Scraping

Large Sample Theory, Machine Learning, Monte-Carlo Optimization Notable Graduate Classes Taken

Theoretical Statistics, Modeling and Learning, Matrix Optimization

Industrial Internship Experience _____

Data Science Internship

Denver. Colorado May 2019 - Aug. 2019

Los Angeles, California Expected Graduation

Graduation Date: May

Date: June 2025

University Park,

Pennsylvania

2020

MACHINE LEARNING AND IOT INTERNSHIP AT LOCKHEED MARTIN

Self-taught Causal Inference through R to accelerate autoclave fault identification sources

• Performed fault detection to do predictive maintenance through R and Python on large machinery to minimize downtime

Data Science Internship

GENIE AERIAL WORK PLATFORMS

Redmond, Washington June 2021 - Sept. 2021

- Created dashboards for data analytics through Amazon Quicksight and use of Amazon Redshift to live-track potential machine faults from sensor data

 Identified new machine usage metrics for additional business insights on how customers use products
- Used SQL to continuously pull and merge data from AWS databases for live dashboards

Research Experiences_

PhD Research

Los Angeles, California June 2021 - Present

UCLA Causality Gaussian DAGs from Network Data with Dr. Qing Zhou

• NSF funded research on causal inference estimation of Gaussian graphs involving discrete network data

• Developing algorithms to improve estimation and structure accuracy over current causal inference methods

Penn State Undergraduate Statistics Researcher

PENN STATE EBERLY COLLEGE OF SCIENCE WITH DR. LINGZHOU XUE

University Park. Pennsylvania *Jun. 2018 - May 2020*

- Collaborated with bioinformaticians on Hi-C Gene expression data using Lasso on high-dimensional data to identify and differentiate between distinctive chromatins for normal and cancer cells. Hi-C analysis costs 1000s of dollars. Model can be used estimate interaction intensity between chromosomes as a decent substitute for costly analysis
- Compared classification methods using semi-supervised learning for sentiment analysis of Amazon Review Text

Honors & Awards

Patil-Taillie Award, Awarded to one undergraduate student annually who has

demonstrated forethought and application of the use of statistics in the study of the 2019 environment. Published research on significant changes in chemical pollutants and spills within Pennsylvania water networks

PSU DataFest, Won 1st Overall and awarded Best Insight in the annual DataFest

Competition using Indeed data to discover profitable professions based on cost of living in the United States. Used Tableau for data visualization using outside data sources.

PSU DataFest, Won Best Insight in the annual DataFest Competition using movement 2019 data for rugby teams to determine effectiveness of self-reporting mental and health state