ZHENG ZHANG

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EDUCATION

The Pennsylvania State University

Aug 2016 - Dec 2020

B.S. in Statistics & Data Sciences

Concentration: Computational Statistics, Statistical Modeling Data Sciences

Minor in Computer Science & Mathematics

Member of Mu Sigma Rho - National Honorary Society for Statistics

Overall GPA: 3.71/4.00

HONORS AND AWARDS

ECoS Summer Undergraduate Research Scholarship

April 2019

Scholarship for Conducting Research During Summer

State College, PA

DataFest
Finalists & Best Visualization Award

April 2019 State College, PA

HackPSU

October 2018

Second Place in AccuWeather Challenge

State College, PA

Penn State Behrend Honor Student

April 2018

Honor Student Award

Erie, PA

RESEARCH EXPERIENCE

Research Assistant

Aug 2019 - Present

The Mahony Lab, Center for Eukaryotic Gene Regulation

State College, PA

- · Developed algorithms and model for predicting the signal of biochemical activities in human genome.
- · Utilized Spark and HDFS to provide the solutions for handling over 4 TBs massive datasets.
- · Developed parallel applications for data pre-processing and post-processing.
- · Link to Research: https://secantzhang.github.io/project/encode-imputation

Bioinformatics Programmer

May 2019 - Aug 2019

The Mahony Lab, Center for Eukaryotic Gene Regulation

State College, PA

- · Participated in the "Encode Imputation" challenge hosted by Stanford University.
- · Developed high-performance parallel algorithms and the data processing pipeline to model the massive datasets.

PROFESSIONAL EXPERIENCE

Teaching Assistant

Jan 2020 - Present

CMPSC 442 - Artificial Intelligence

State College, PA

· Assisted Dr. Kelvin Kamali with the grading of the student's homeworks in CMPSC 442 class.

Teaching Assistant

Aug 2019 - Dec 2019

CMPSC 410 - Programming Model for Big Data

State College, PA

· Assisted Dr. Daniel Kifer with the grading of the students' homeworks and labs in CMPSC 410 class.

Entry Analyst Intern

Beijing JAYA Technology

Jun 2017 - Sep 2017 Beijing, China

- · Crawled and collected the public-available financial data published on over five companies' annual report.
- · Visualized and analyzed the data extensively using R and Python.

PROJECTS

 $egin{array}{lll} \mathbf{rmodel2tex} & \mathrm{Dec} \ 2018 \ - \ \mathrm{Present} \ & State \ \mathit{College}, \ \mathit{PA} \ & \end{array}$

- · R package for easily converting various existing r model to latex code.
- · Supported various statistical models such as linear regression and logistic regression.
- · Took into consideration of the difference between population model and fitted model. Also supported the different representation of interaction and categorical terms.
- $\cdot \ \, Link\ to\ Project:\ https://secantzhang.github.io/project/rmodel2tex$

A-weatheR
Swift
State College, PA

- · Developed an AR iOS application using AccuWeather API on HackPSU Fall 2018.
- · Integrated Augmented Reality within the application so that the disables could sense the weather condition visually without the need of going outside.
- · Link to Project: https://secantzhang.github.io/project/a-weather

TECHNICAL STRENGTHS

Computer Languages	Python, R, Scala, Swift, C++, JAVA, SAS, Shell Script		
Databases	MySQL, MongoDB		
Data Analysis & Processing	Spark, Hadoop, HDFS, Scikit-Learn, ggplot, Tidyverse, HDF5		

COURSEWORK

CMPSC 442 Artificial Intelligence	Fall 2019 <i>A</i> -	CMPSC 410 Programming Models for Big Data	Spring 2019 A
CMPEN 454 Computer Vision	Fall 2019 A	STAT 440 Computational Statistics	Spring 2019 A
CMPSC 465 Data Structures and Algorithms	Summer 2019 A	STAT 462 Applied Regression Analysis	Fall 2018 A -