

ZHENG ZHANG

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EDUCATION

- The Pennsylvania State University (Rising Senior)
• **Statistics** – Computing Option, Bachelor of Science.
• **Data Science** – Statistical Modeling Option, Bachelor of Science.
• Minors in **Computer Science** and **Mathematics**
- Graduation: May 2020
GPA: 3.70/4.00

RESEARCH EXPERIENCE

- **Research Assistant - The Shaun Mahony Lab**
• Participated in the ENCODE Imputation Challenge for imputing missing genomes.
• We are currently developing a computational method which integrates the XGBoost and IDEAS Epigenome Annotation System for imputing the biochemical data associated with functional genome elements.
- Date: May 2019 – Present

INTERNSHIP EXPERIENCE

- **Entry Analyst Intern,**
Beijing JAYA Technology co., Ltd, Beijing, China
• Crawled and collected the public-available financial data published on over five companies' annual report.
• Visualized and analyzed the data extensively using the R and Python.
- Date: Jun 2017 – Sep 2017

SKILLS

- **Programming Languages Related:**
• R, Swift, Python, C++, JAVA, JavaScript, SAS
- **Databases Related:**
• SQL, MongoDB, Redis
- **Data Analysis and Processing Related:**
• MapReduce, Spark, Hadoop, Pig, HDFS, Scikit-Learn, ggplot, Tidyverse, HDF5

PROJECTS & AWARDS

- **A-weather:** *Won Second Place in HackPSU AccuWeather Challenge*
• 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.
- **DataFest 2019:** *Finalist and the Best Visualization Award.*
• Analyzed the raw data provided Canada's women rugby 7 team and developed an RShiny desktop application for better measuring the athletics' physical conditions.
- **rmodel2tex:** *An R package that converts various R model to latex syntax.*
• 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.

ACHIEVEMENTS

- Dean's List in 2017, 2018, 2019
- Penn State Behrend Honor Student
- Elected to be the candidates of Civil Tongue Speaking Competition in April by Dr. Payne.