XINYAO WU

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EDUCATION

COLUMBIA UNIVERSITY, MAILMAN SCHOOL OF PUBLIC HEALTH, New York, NY

Master of Science in Biostatistics | GPA 3.79   Aug 2018-May 2020
- **Courses:** Probability, Biostatistics Method I, Biostatistics Method II, SQL, Data Science, Epidemiology, Statistical Inference, Topics in Advanced Statistical Computing.

CHINA AGRICULTURE UNIVERSITY, Beijing, China

Major in Agronomy and Biotechnology   Sept 2014-June 2018
- **Courses:** Genetics, Biochemistry, Trail Design and Biostatistics, Molecular Biology, Epigenetics

PROJECT EXPERENCE

Course Project about Markov chain Monte Carlo, *New York, NY*   May 2019
- Randomly selected 80% data and develop an MCMC algorithm to estimate the posterior mean od the model parameters based on a given conditional probability model.
- Applied the model to track the remaining 20% hurricans and evaluate the predictions.

Course Project about bootstrapping , *New York, NY*   May 2019
- Applied logistic-LASSO algorithm to select features for predicting.
- Compared the two approaches Lasso and bootstrap-smoothing in prediction.
- Explained the statistical justifications of my suggestion and implemented them in R.
- Carried out a CD optimization algorithm for a high-dimensional logistic model to predict breast cancer

Course Project of Data Science, *New York, NY*   Oct 2018-Dec 2018
- Filtered Design a data analysis study about the relationship between air qualities and asthma outcomes in NYC; Searched and collected different areas air pollution data and asthma data
- Visualized the relationship between different features and asthma rate with plots in R and made a website using shiny and flexdashboards.

PROFESSIONAL EXPERENCE

Peking University, *Research Assistant, Beijing,China*   Sep 2017-May 2018
- Build the construction of multiple regulation layers of Arabidopsis thaliana based on raw sequencing genetic data by Linux.
- Filtered and visualized gene-gene regulation network by weighted correlation network analysis with R.

Peking University, *Research Assistant, Beijing,China*   May 2017-Sep 2018
- Collected and sorted. The data and materials of international machine learning application
- Filtered Analyzed advantages and feasibility of artificial intelligence(AI) on future medical research

SOCIETY EXPERENCE

Violinist, **Columbia University Medical Center Symphony Orchestra**   New York, NY Oct. 2018 –Present

Volunteer, **DatapiTHU (WeChat Subscription of Tsinghua Univerty)**   Beijing, China, 2017
- Published the article Exclusive | *Teach you how to make a small program by scrapy(with the code attached)*

SKILLS&CERTIFICATES

- **Computer Skills**: SQL, R, SAS,MS Office,Python
- **Certificates**: SAS Certified Advanced Programmer for SAS 9, SAS Certified Base Programmer for SAS 9
- **Coursera Course Certificate:** Machine Learning