

Yunlin Zhou

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EDUCATION

Columbia University Mailman School of Public Health **New York, New York**
Master of Science in Biostatistics **05/2023**

- Courses: Probability, Data Science 1 (R programming), Biostatistical Methods 1, Principles of Epidemiology
- In process courses: Data Science 2, Statistical Inference, Biostatistical Methods 2, Relational databases and SQL programming, Python

College of Biological Sciences and Technology, Beijing Forestry University **Beijing, China**
Bachelor of Science in Biological Sciences **07/2021**

- Core Courses: Biotechnology, Advanced Mathematics, Cell Biology, Molecular Biology, Animal Physiology A
- **Thesis:** Molecular mechanism research of the effect of leaf on chloroplast division in woody plants.

UC Berkeley Summer Sessions **07/2019-08/2019**

- Courses: Introduction to Probability and Statistics in Biology and Public Health, Introduction to Human Physiology Laboratory

DATA ANALYSIS PROJECT

Coursework Project, Columbia University Biostatistics Department

- Conducted analysis of World Happiness data set, created data visualization and built a website using R.
- Examining the marginal distributions and pairwise relationships between variables, then built the final model of crime rate data set using R.
- Conducted analysis of CVD data set, used logistic, GAM, MARS, LDA and QDA models.
- Trained with Access and MySQL to process database with immune disease data analysis project.

SKILLS

- Data analysis Skills: R, Python, SQL, MySQL, Access
- Lab skills: Proficiency in molecular biology techniques
- Language: Chinese (native), English (fluent)

RESEARCH EXPERIENCE

College of Biological Sciences and Technology, Beijing Forestry University

Research Assistant, Advisor: Prof. Hongbo Gao & Prof. Xiaomin Liu **10/2017-07/2021**

The Putative Smallest Introns in The Arabidopsis Genome

- Conducted research on DNA in plants using molecular biology techniques, including assessment of functions of introns, resulting in a research publication.
- Accurately followed research protocols to ensure accuracy and validity of data collection.
- There is a limit to how small introns in *A.thaliana* can be, which is useful for the understanding of the evolution of small introns.

Molecular Basis of The Effects of Leaf Development on Chloroplast Division in Woody Plants

- Review previously written articles on topic, to provide information for future research.

PUBLICATIONS

- Cheng W, **Zhou Y**, Miao X, et al. The putative smallest introns in the *Arabidopsis* genome. *Genome biology and evolution*, 2018.
- Liu X, **Zhou Y**, Xiao J, et al. Effects of chilling on the structure, function and development of chloroplasts. *Frontiers in Plant Science*, 2018.

HONORS & AWARDS

- Outstanding Academic Scholarship of Beijing Forestry University (for 2017-2018/2018-2019 academic years)
- Excellent Student Cadre (for 2017-2018/2018-2019/2019-2020 academic years)
- The fifth biology competition Beijing China Knowledge competition Second prize (2019)
- The sixth biology competition Beijing China Experimental skills competition Third prize (2020)