Xiaoluo Jiao

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A motivated Undergraduate Student in Biological Science, seeking for a Master's degree in Biostatistics

EDUCATION

University of California, Davis   **Davis, California**

Bachelor of Science in Biological Sciences, Minor in Statistics   Sep.2016 - Present

Core Course: Applied Statistics, Mathematical Statistics, Functional Genomics, Analysis of Variance, Bioinformatics, Regression Analysis, Gene & Gene Expression, Cell Biology

GPA: 3.75/4.00

Dean's Honors List: Fall 2017, Fall 2018, Fall 2019, Winter 2020, Spring 2020

WORK & RESEARCH EXPERIENCE

Research Assistant, Investigation on the Zygotic Transition & Synthetic Apomixis in Rice   **Davis, California**

Sundaresan Lab, Department of Plant Biology, UC Davis   Sep.2020 - Present

- Responsible for experimental data analysis, data cleaning, and data management using R
- Performed analyses of correlation & regression, one-way ANOVA, polynomial curve fitting, randomized block design, nested design, and multifactorial design
- Delivered weekly reports to the supervisor effectively

Research Assistant, Study on Short Rotation Coppice (SRC) Willow as a Bioenergy Crop   **Davis, California**

Taylor Lab, Department of Plant Sciences, UC Davis   Sep.2019 – Dec.2019

- Responsible for system monitoring and maintenance in the greenhouse
- Planted and harvested willow samples
- Measured and recorded physiological biomass in willows on a weekly basis
- Utilized t-test to analyze the significant difference in soil carbon stocks and found significantly lower soil respiration in SRC willow comparing to grassland
- Built linear mixed model fitted by climate variables and found photosynthetically active radiation and soil water content affected net ecosystem exchange significantly
- Led literature review, team coordination, and presentations, effectively delivered scientific reports to supervisors

Research Assistant, Identification of Candidate Genes for Phytonutrient Traits of Watercress   **Davis, California**

Taylor Lab, Department of Plant Sciences, UC Davis   June.2019 – Dec.2019

- Created datasets of sorted and labeled watercress samples in Excel which provided an efficient reference for upcoming experimental analysis
- Conducted data visualization, image processing, and image analysis of watercress tissue samples in ImageJ
- Prepared the watercress samples for further analysis using the cryogenic technique
- Organized group meetings with Principal Investigator and coordinator, and assigned tasks for other undergraduate interns

Art Director   **Beijing, China**

Beijing National Day School   Sep.2015 – June.2017

- Worked as art editor of a quarterly magazine
- Mentored new members of the graphic design team and led ongoing training seminars for the team

SKILLS

- **Program:** RStudio, Unix Shell, Microsoft (Word, Excel, Access), and Adobe (InDesign, Photoshop)
- **Data and Statistical Analysis:** ANOVA, MANOVA, Univariate and Multivariate Regression Analysis, Correlation Analysis, Randomized Block Design, Data Cleaning, Data Mining, and Data Visualization
- **Research:** Experimental Design, Independent Research, Scientific Writing, Team Cooperation, Laboratory Skills (DNA extraction)