SIMON LAW

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EDUCATION

South China Agricultural University(SCAU) *09/2020 - 06/2024*
Bachelor of Science in Biological Sciences ***GPA**: 92.03/100*
***Relevant Courses**: Biochemistry(97.3), Molecular Biology(99), Bioinformatics(96.8), Cell Biology(89), Genetics(87.5), Genetic Engineering(85.5), Animal Physiology(92), Organic Chemistry(98), Inorganic and Analytical Chemistry(92.3), Advanced Mathematics(82.4), Probability Theory and Mathematical Statistics(92.6)*

EXPERIENCE

Research Assistant, Guangdong Academy of Agricultural Sciences *Sep 2023-Apr 2024*
I previously served as a research assistant in Dr. Dan Wang's team, where our research focused on investigating the regulatory mechanisms underlying sugar accumulation in mulberries. My primary responsibilities included utilizing high-performance liquid chromatography (HPLC) to accurately quantify sugar content in mature fruits from 150 distinct mulberry varieties. I also processed and analyzed the resulting data using Python and its associated libraries, such as pandas, NumPy, and matplotlib, to ensure the accuracy and clarity of our findings.

In addition, I integrated sugar content data with transcriptome and genome datasets, performing correlation and co-expression analyses to identify candidate genes potentially involved in sugar accumulation. This work involved applying bioinformatics tools such as BLAST and Cytoscape to analyze gene sequences and visualize gene interaction networks.

Research Assistant, SCAU College of Life Sciences *Dec 2022-Sep 2023*
I worked as a research assistant under the supervision of Dr. Shaoyan Zheng, focusing on the response of a transcription factor to high temperatures in Oryza sativa. My primary responsibilities included designing primers and optimizing PCR protocols, such as qPCR and RT-PCR, to amplify target gene fragments with high specificity. I also performed molecular biology techniques like gel electrophoresis, DNA extraction, and cloning to confirm gene expression and functionality.

In addition to laboratory work, I conducted detailed observations and measurements of rice phenotypes under controlled high-temperature conditions, ensuring accurate data collection. Using statistical software such as SPSS, I analyzed experimental data through methods like ANOVA and regression analysis. I also created clear and professional visualizations of the results using Origin, which helped effectively communicate findings within the research team.

SKILLS

Languages
Python, HTML/CSS, LaTeX, Markdown, YAML
Frameworks
Pytorch, Sklearn, Numpy, Pandas
Tools
Git, Vim, Docker, Kubernetes, Anaconda

AWARDS AND SCHOLARSHIPS

Academic Scholarships , SCAU College of Life Sciences *2022-2023*
Academic Scholarships , SCAU College of Life Sciences *2020-2021*