

Zhining Sui

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EDUCATION

- Bachelor of Science, CGPA: 3.89** 2017-2020
McGill University, Montreal, QC, Canada
- Joint Major of Biology and Mathematics
 - Minor Computer Science
- Singapore-Cambridge General Certificate of Education Advanced Level** 2015-2016
DIMENSIONS International College, Singapore

HONORS/AWARDS

- Dean's Honour List
- Faculty of Science Scholarship (\$1200) (Fall 2019 – Winter 2020)
- Logan Scholarship (\$1000) (Fall 2019 – Winter 2020)
- Science Undergraduate Research Awards (\$7000) (Summer 2020)

RESEARCH EXPERIENCE

- Independent Research Project I** Summer 2019
Professor Paul Harrison Lab, Department of Biology, McGill University, QC, Canada
- Went through the process of phylogenetic analysis of ALS-linked protein hnRNPA2
 - Utilized bioinformatics tools, including Clustal, PLAAC, fLPS, PHYML, EvolView, etc.
 - Improved the ability of literature search, synthesis, and analysis
 - Developed reports and recommendations regarding research outcomes

- Undergraduate Research Assistant** Fall 2019
Professor Hugo Zheng Lab, Department of Biology, McGill University, QC, Canada
- Assisted Ph.D. students in original research on the protein interactions involved in plant autophagy
 - Executed laboratory techniques: sample collection, cell culture, yeast two-hybrid, BiFC, transfection by electroporation, DNA extraction, PCR, immunoblot following SDS-PAGE, etc.
 - Contributed to data pool by collecting and organizing information from microscopy

- Independent Research Project II** Winter 2020
Professor Daniel Schoen Lab, Department of Biology, McGill University, QC, Canada
- Developed documentation on color pattern quantification of *Impatiens capensis* flowers using R packages
 - Applied knowledge of statistics, computer science, and biology to support research
 - Utilized specific image processing techniques to retrieve data from collected specimens

EMPLOYMENT

- Course Designer** Summer 2020
Professor Daniel Schoen Lab, Department of Biology, McGill University, QC, Canada
- Assisted Professor Schoen with lesson preparation and curriculum implementation of the course 'Ecological Genetics'

- Self-studied the textbook and provided answers to the homework assignments
- Evaluated curriculum, course format, and reading assignments to determine areas in need of improvement
- Communicated with the professor via online meeting to gain experiences in teaching and course development

Grader for course BIOL 324

Fall 2020

Department of Biology, McGill University, QC, Canada

- Marked the homework, documented results, and informed the instructor of the students' performance
- Assisted the instructor in monitoring the students' progress and suggested knowledge in need of more instructions
- Gave constructive comments on the answers to boost students' comprehension

SKILLS

Language: Native Mandarin, Fluent English, Basic French

Software: Bioinformatics tools (Clustal Omega, PLAAC, fLPS, PHYML, MEGA X, PHYLIP, EvolView), Population biology simulators (Populus, popG), Microsoft Office

Programming language: R, C, Java, Matlab

Research techniques: Literature searches, Experimental designs, Laboratory operations, Quantitative and qualitative analysis, Documentation ability, Public presentation