MENG YUAN

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EDUCATION

Sichuan University   *Spet. 2015 - Present*
Senior Undergraduate (Graduating June 2019)   **Overall GPA: 88.9/100**
Major in Software Engineering, minor in Biology
TOEFL: 100 (Reading25 Listening25 Speaking23 Writing27)

RESEARCH EXPERIENCE

Identification of Meiotic Drivers in *Rumex hastatulus* Using Pooled Sequencing Ongoing
Bachelor's Thesis. Supervisor: Stephen Wright (University of Toronto)

· Performing SNP calling and analysis of allele frequency distribution to detect deviation from Mendelian segregation and identify candidate meiotic drivers on the fused X chromosome in *R. hastatulus*.

RNA Sequencing-based Analysis of Economical Traits in Tree Species   Jul. - Oct. 2018
Mitacs Globalink Internship. Supervisor: Jim Mattsson (Simon Fraser University)

· Performed differential expression analysis, GO and KEGG analysis to identify candidate genes involved in conifer bark defence, using western red cedar as the research object. A manuscript is in preparation.

The Complete Chloroplast Genome of *Oenanthe javanica*(Unpublished) Mar. - Jul. 2018
Undergraduate Research Project. Supervisor: Yan Yu (Sichuan University)

· Performed assembly, annotation and correction of the chloroplast genome of this medicinal plant in Apiaceae, and test several approaches for getting best assembly. Notes & Scripts.

Digital Network Platform of Plants in Sichuan University   Nov. 2016 - May 2017

Used HTML/CSS/JavaScript, MYSQL and PHP to develop the web application and has successfully worked as a team leader on the project. Webpage Link.

OTHER EXPERIENCES

President of the Botany Association of Life Science College   Dec. 2016 - Jul. 2018
Co-founder and first president.

· We hold a series of events to promote popular science in botany, including field trips, seminars and lectures and publish weekly blogs on common plants on campus.

Field Work Assistant   Aug. 2017

· Worked as an assistant in plant identification and survey at Wolong Nature Reserve for a research team from Beijing Forestry University. Plant Photos

SKILLS

Programming Languages   Python, R, Shell Script, Perl(basic)
Interdisciplinary Research   Software engineering, computational biology/bioinformatics

PRIZES & AWARDS

Sichuan University *Challenge Cup* Web Designing Contest   Nov 2016
Team Leader. Second Prize
Sichuan University Architects Competition of Microorganism Application   May 2016
Team Leader. Outstanding Performance Award