

WU XINYAO

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Address: No.2, Yuanmingyuan West Road, Haidian District, Beijing, 100193, China

EDUCATION

China Agriculture University

September 2014 - June 2018

College of Agronomy and Biotechnology | Major in Agronomy | GPA: 3.74/ 4.00

- **Relevant Coursework:** Genetics, Biochemistry, Trial Design and Biostatistics, C Programming Language, Probability Theory and Mathematical Statistics, Epigenetics, Plant Genomics, etc.
- **Computer Skills:** R Language, Python, Java, Scrapy, Unix, C (with a certificate of National Computer Grade C language examinations at level 2)

RESEARCH EXPERIENCE

Construction of Regulatory Networks Across Multiple ‘Omic’ Layers in Response to Absciscic Acid Treatment in *Arabidopsis thaliana*, Peking University Beijing, China

July 2017-Present

- Applied bioinformatic tools (Stringtie, HISAT, Ballgown) to processing sequencing data and analyze differentially expressed genes
- Construct gene-gene regulation network using weighted gene co-expression network analysis and hierarchical clustering of genes
- Compared gene modules and identified significant changes using Fisher exact test
- Developed a java script to visualize genes dynamic changes by demonstrating genes expression with the intensity of light

A program in health care with medical artificial intelligence, Tsinghua University Beijing, China

April 2017 - May 2017

- Searched and sorted 16 international machine learning applications for health frontier
- Analyzed advantages and feasibility of artificial intelligence (AI) on coming medical researches

Project of screening mutant wheat of low celiac sensitization and analyzing the mutant's quality, Wheat Research Center in China Agricultural University Beijing, China

March 2016 - March 2017

- Did SDS-polyacrylamide gel electrophoresis for more than 200 wheat seed samples
- Analyzed and identified mutation sites and types of mutants

EXTRA-CURRICULUM ACTIVITIES

Volunteer, core member of DatapiTHU (WeChat Subscription) Beijing, China

July 2017-Present

- Wrote articles aiming at amateurs of data analysis and providing a public education
- Read and replied readers' question and feedback and gave suggestions and directions
- Published the article *Exclusive | Teach you how to make a small program by scrapy (with the code attached)*

Member, Investigation on local farmer's attitude to organic rice planting Heilongjiang, China

July 2015

- Summarized the characteristics and impact of local farmers' attitude
- Wrote the reporting article
- Accessed an internship opportunity from the CEO of a local newly-developing rice company

Leader, ESQUEL National Idea Competition, Beijing, China

March 2015– June 2015

- Managed the team: responsible for member recruitment, election and meeting organization
- Participated in the whole process of idea launch: proposed the main conceive and alternatives
- Allocated task for members and coordinated the team's organization
- Won the 5th place and a \$1000 prize.

ENGLISH SKILLS, AWARDS and HOBBIES

- TOEFL SCORE :105 (June 10th, 2017)
- GRE SCORE:322 (Nov 19th , 2017)
- **Awards:** The Second Prize Scholarship (twice)
Excellent Student Scholarship (twice)
The third-class of University Students Physics Competition (2016)
The second-class s of National English Competition for College Students (2015)
The third-class s of National English Competition for College Students (2016, 2017)
- **Hobbies:** Playing the Piano, Playing the Violin, Photographing and Drawing, Carving Rubber Stamps, Ikebana(Flower Arrangement), Horseback Riding, Public Speaking and Debate