

Jiale He

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EDUCATION

University of Illinois at Urbana-Champaign, Champaign, IL

May 2019

Bachelor of Science in *Crop Sciences*; Cumulative GPA: 3.59/4.00

Weill Cornell Medicine, New York, NY

Master of Science in Biostatistics and Data Science; Cumulative GPA: NA

August 2020

WORK EXPERIENCE

Data Analyst Intern, CMST Intelligence Logistics Technology Co. Ltd, Nanjing, China June 2019-August 2019

- Used SQL to perform data cleaning and analyze millions of lines of data from the company's whole database, generated multiple reports with SQL and Excel
- Communicated and finished technical demands from other Departments, such as cargo transportation report and customer transaction detail report.
- Participate in the project "CMST App user-data and order-detail analyzation" to support the development of drivers' credit score system
- Lead the project "Prepay-Service Risk Estimation" under regulations/guidance of People's bank of China

Bayer Crop Science, White Heath, IL

September 2017-May 2018

- Utilized the techniques such as seed threshing, seed sorting, seed packaging, seed planting, plot maintenance and cross pollination to improve results of soybean genetic variety field trials
- Analyzed traits of native American soybean and identified allele frequency towards different coating color
- Decided yield of each soybean by different varieties
- Did a statistical analysis of genetic modified plant to decide the commercial seeds of next year

RESEARCH EXPERIENCE

Research Assistant, Erik J. Sacks Lab, Urbana, IL

May 2018-June 2019

Advisor: Research Specialist Lindsay V Clark

- Collaborated with Dr. Lindsay V. Clark for the improvement and test of R package "PolyRAD"
- Analyzed genomic data generated by next-generation sequencing
- Learned to turn Miscanthus sequence data into RAD data
- Tested online potato data that was measured in GoldenGate to identify the package accuracy
- Learned to apply bioinformatics skills to real-life samples
- Expected to find better ways to estimate genotypes from next-generation DNA sequencing read depth
- Took charge of testing polyRAD and finding potential bugs

Research Assistant, SXM Lab, Urbana, IL

May 2017-January 2018

Advisor: Assistant Professor Santiago Mideros

- Planted plots of soybeans of different varieties
- Inoculated soybeans with brown spot and treated infected soybeans with different schemes
- Tested pathogen throughout growth phase of plant
- Studied the influence of brown spot on yield rate according to pathogen distribution and output
- Verified the experimental result in different test fields so as to exclude impact of location
- Familiarized with operation of basic laboratory instruments, such as electrophoresis, autoclave, inoculation etc.

SKILLS

Computer skills: R, Python, SQL, SAS

Lab skills: DNA extraction, Agarose Gel Electrophoresis, Nucleotide Blast, Media preparation, DNA purification