

Shufei Fang
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Education

Bachelor of Science, Neuroscience

September 2023

Michigan State University; East Lansing, MI

Master of Science, System Biology and Bioinformatics

Case Western Reserve University; Cleveland, OH

Related Experience

Boschen's Lab

December 2023 – July 2025

Research Support Technician; Syracuse, NY

- Work as lab manger to maintain lab environment
- Participated in multiple projects including: CIFASD GWAS, single cell sequencing, Stress and alcohol sensitivity, and maintaining transgenic mouse line

Warbarcare's Lab

Oct. 2020 – Sep. 2022

Research Assistant; East Lansing, MI

- Participated in research projects regarding sex-determine genes in mosquitoes. Utilizing laboratory results in mass-production practice by exploring practical methods surrounding sexually selected mosquito genes in the early larva stage via introducing RNA knockout
- Performed basic lab duties including taking care of laboratory animals and lab environment, ran foundational lab experiments such as sample collection (mosquito dissection), RNA/DNA, PCR, and qPCR
- Observed and learned different skills in laboratory analyses and laboratory software such as R and basic strategy in constructing a scientific paper

Michigan Twins Project Lab

Jan. 2020 – Mar. 2020

Video Coder; East Lansing, MI

- Examined the relation between genes and environment in terms of child development. Investigated the relation between teen distractive behaviors and parental teen interaction via reorganizing parent-teen intersection into 4 categories
- Assisted lab technician with data collection of participants, collecting data regarding parental behavior and children's disobedience behavior

Project & Activities

Cancer Cell Culturing

- Participated in breast cancer cell culturing for one semester, exploring the possible mutation of Toll-like receptor -4 in breast cancer cell line. Familiar with human cell culturing techniques, and genetic analysis techniques including PCR and western blot

Independent Projects

- Designed 2 independent, 1 year-long, research projects. Studied and understood methodologies surrounding applications for research fund, set up experiment and analysis results

Skills

Software

- Expert in Microsoft Office & Rstudio,

Language

- Fluent in Mandarin and English

Leadership

- Participated in 2 student organizations as executive board. Responsible for communicating with officials and staff from different universities, maintaining good relationships between members. Planed and organized colleague-level activities and high school-level conferences.

Soft skill

- communication skills (written and oral), team working skills, quick learner, dedicated worker, detail and results oriented