Sarah Shehreen

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EDUCATION

Wesleyan University, Middletown, CT   May 2021
Bachelor of Arts, GPA: 3.41/4.00
Major: Neuroscience and Behavior Minor: College of East Asian Studies

Relevant Coursework: Introductory Biology, Chemistry, Physics, Organic Chemistry, Development Biology, Neuropharmacology, Neurobiology of Neurological Disorders

RESEARCH EXPERIENCE

Wesleyan University, Biology Department, Devoto Lab
Undergraduate Researcher, May 2019-March 2021
Advisor: Dr. Stephen Devoto
Devoto Lab, Spine and Muscle Development
• Collaborated with principal investigator to design and led 3 semester long experiments into completion to address defect formation in congenital vertebral malformation diseases.
• Worked in protocol design, troubleshooting experiments, and trained incoming students in lab procedures
• Analyzed data with Excel, MeshLab, and Photoshop and presented findings in conferences
• Assisted in maintenance of the zebrafish facility and carried out lab chores such as making stock solutions and managing databases.

Wesleyan University, Neuroscience Department, Robinson Lab
Undergraduate Researcher, September – December 2018
Advisor: Dr. Mike Robinson
• Assisted in rodent husbandry and carried out behavioral experiments with operant chambers, drug tests, and anxiety tests.

PRESENTATIONS

Wesleyan Summer Research Poster Session, Wesleyan University, Middletown, CT, August 2020. " Techniques of μCT Manipulation to Visualize and Score Vertebrae." (Poster)

UCLA McNair Conference, University of California, Los Angeles, CA, August 2019. " Effect of Heat Sensitization in Somite Segmentation." (Poster)

Wesleyan Summer Research Poster Session, Wesleyan University, Middletown, CT, August 2019. "Effect of Heat Sensitization on Somite Segmentation." (Poster)

TECHNICAL SKILLS

Computational Skills: Meshlab, Microsoft Office Suite, Adobe Photoshop, Familiar With: Python

Wet Lab: Light and fluorescence microscopy, breeding and genotyping zebrafish, managing databases and analyzing data, making stock solutions, understanding of zebrafish development and anatomy

Languages: Bangla (fluent), Korean (beginner)