

# Biomedical Data Science Fall Student Rotation Presentations

Friday, May 2, 2025

12:00-1:00 pm

Biotech Center Auditorium

zoom option: <https://uwmadison.zoom.us/j/95932720274>

**Olivia Johnson, BDS PhD Student**

Rotation Mentor: Juan Caicedo

Nuclei Segmentation of 3D Organoid Microscopy Images

**Jihua Liu, BDS PhD Student**

Rotation Mentor: Sunduz Keles

Cell clustering and separation of leukemia multi-omics single-cell dataset

**Jin Mu, BDS PhD Student**

Rotation Mentor: Guanhua Chen

Benchmarking Machine Learning and Foundation Models for Microbiome-Based Disease Prediction

**Swathisri Venkatesh, BDS PhD Student**

Rotation Mentor: Sunduz Keles

Examining Multi-way Chromatin Interactions from Droplet Hi-C Data

**Brendan Joyce, BDS PhD Student**

Rotation Mentor: Sushmita

Benchmarking Effectiveness of Single Cell Multimodal Integration Methods

**Peng Wu, BDS PhD Student**

Rotation Mentor: Tom Cook

Non-Fatal Event Analysis with Competing Risk of death

