

Biomedical Data Science Flash Talks

Friday February 13, 2026

12:00-1:00 pm

Morgridge Hall Seminar Room (7560, 7th floor)

Jordan Bramble, BDS PhD Student

Rotation Mentor: Pallavi Tiwari

Internally Validated Radiomics Signature for Brain Metastases Prognosis

Sophia Doerr, BDS PhD Student

Rotation Mentor: Matthew Churpek

Mixture of Multimodal Agents Architecture for Prediction of ICU Deterioration Rates

Parkriti Garg, BDS PhD Student

Rotation Mentor: Sushmita Roy

GRL-Ortho: Graph Representation Learning based framework for principled analysis of orthologous regulatory regions across more than two species

Christine Hou, BDS PhD Student

Rotation Mentor: Colin Dewey

Automatic identification of missing biological and experimental factors for genomic datasets

Ryan Moreno, BDS PhD Student

Rotation Mentor: Sushmita Roy

TIMBER: Tree-guided integrated matrix factorization with branch-specific regularization

Jenna Pan, BDS PhD Student

Rotation Mentor: Lu Mao

Estimating State-occupancy probabilities in multistate models under monotone hazards

Nistha Panda, BDS PhD Student

Rotation Mentor: Zhengzheng Tang

Parallelizing bulk sequence analysis for viral and microbial communities

Tapanmitra Ravi, BDS PhD Student

Rotation Mentor: Irene Ong

TCR-ECHO: Cross-attention with Physicochemical Bias for TCR-Peptide Binding Prediction

Yifan Ren, BDS PhD Student

Rotation Mentor: Juan Caicedo

mnDINO: Accurate and robust micronuclei segmentation with vision transformer networks

Neha Talluri, BDS PhD Student

Rotation Mentor: Ben Lengerich

Mendelian Randomization Contextualized Machine Learning



