Student Presentation Schedule

Schedule

Student Name	Date	Student Name	Date
Grant King	Feb 25, 2026	Marco Hernandez	Feb 04, 2026
John Darden	Feb 09, 2026	Nayeli Duckworth	Feb 11, 2026
Seyed Kasra Korminejad	Feb 16, 2026	Jianyu Gan	Feb 18, 2026
Christina Vu	Feb 23, 2026	Noah Leever	Mar 02, 2026
Rithika Nurani	Mar 04, 2026	Xiuchuan Liu	Mar 16, 2026
Meysam Shirdel Bilehsavar	Mar 18, 2026	Elaina McGovern	Mar 23, 2026
Anderson Bussing	Mar 25, 2026		

Presentation Guideline

The Goal

Present a case study showing how data analysis or deep learning extracts biological signals from genomic data, and explain why it works or why it might fail.

Important!! 7–8 slides (max)!!

Suggested Time Structure

Time	Focus	Purpose
0–1 min	Biological question	Capture attention
1–2.5 min	Genomic task	Define the problem
2.5–5.5 min	Data Analysis insight	Core idea
5.5–7.5 min	Interpretability	Build trust
7.5–9 min	Pitfall / limitation	Show maturity
9–10 min	Transferable takeaway	Make it stick

Potential Paper Ideas

If you are looking for ideas or papers, the link below includes many papers that use interpretable or explainable machine learning methods in genomic data analysis. These

are described in the following paper: Van Hilten, A., Katz, S., Saccenti, E., Niessen, W. J., & Roshchupkin, G. V. (2024). Designing interpretable deep learning applications for functional genomics: a quantitative analysis. Briefings in Bioinformatics, 25(5).
https://roshchupkin.notion.site/4cbd73a2ecf542c383b1d05865205bc4?v=84f991e732c941a18b