

# Ethan Suwandi

## UC Davis

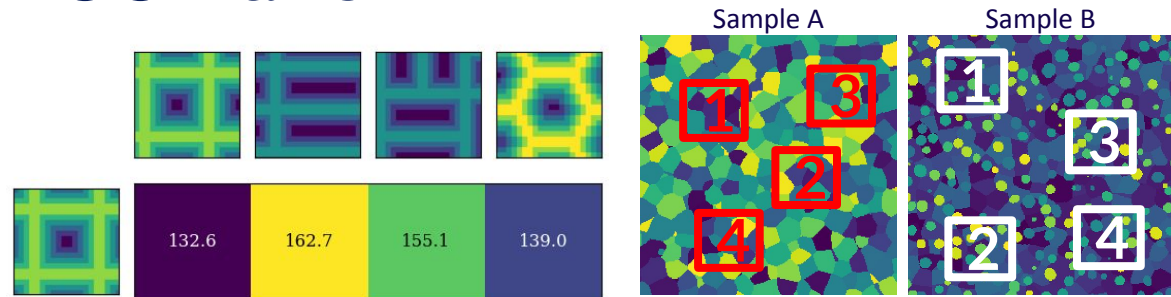
### Microstructure Comparison via the Wasserstein Metric

Single Comparison Metric

Local Morphology

Reduces many physical  
descriptors

HPC Usage: Parallelization of  
window comparisons (NxN).

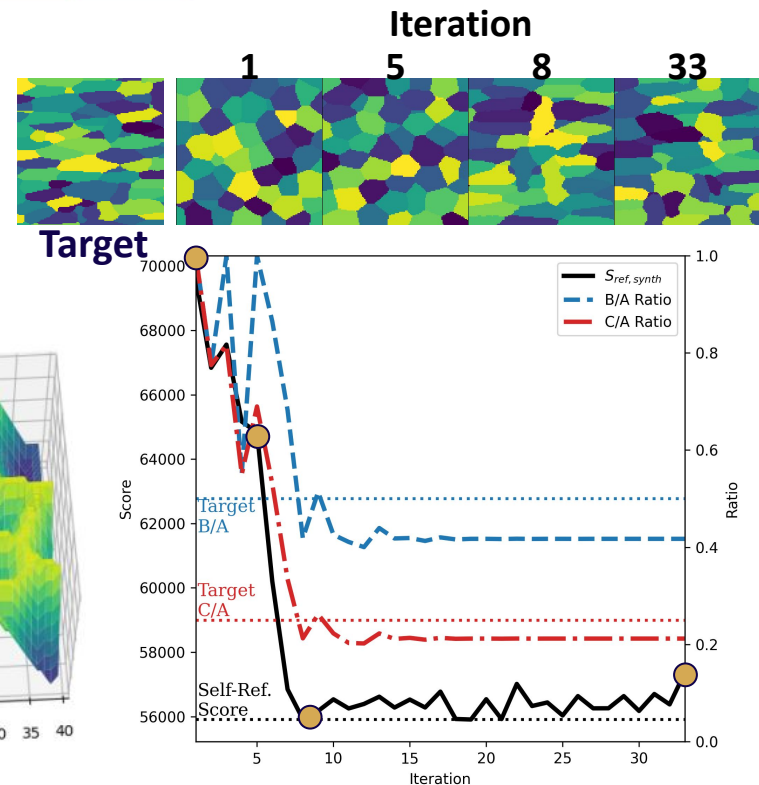
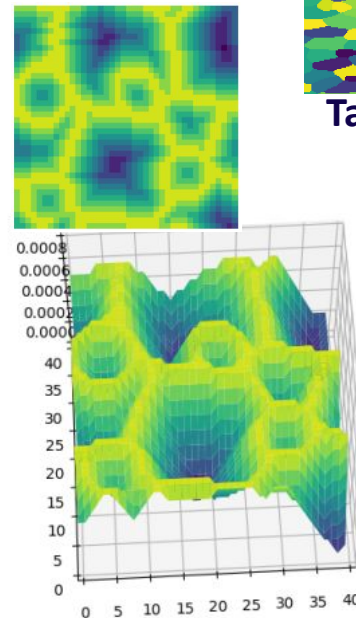


### BIV RNA-Peptide Mutant Data Analysis

Large Scale Conformational and  
MD Simulations

High Dimensional Data

Analysis of multiple simultaneous  
simulations.



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### Computational Challenges

- Planning for parallel use at the beginning.
- Proper project structure and expandability.
- Visualization of Large Scale/High Dim. Data.
- Strengths, Weaknesses, and proper HPC use.

