CS286: Topics in Sequence-based Machine Learning for Bioinformatics, Spring 2021
San Jose State University, Department of Computer Science
Professor William B. Andreopoulos

Tuesday-Thursday 4:30PM - 5:45PM (online)

- Unsupervised/supervised Machine Learning in bioinformatics
- Logistic regression, Naïve Bayes
- Language models, Word embeddings
- Vector space representations
- Clustering with PCA, t-SNE, UMAP
- Hidden Markov Models and Markov chains
- Efficient sequence searching
- Recurrent Neural Networks for sequence modelling
- LSTMs for sequence prediction