ZACH YEK

• he/him •

ABOUT ME

Academic researcher looking to transition into data science. Past and current projects involve working with large datasets, leveraging a combination of machine learning and statistical inference techniques to maximally harness information from these data.

EDUCATION

2019 - 2022
State University of New York at Fredonia
B.S. Physics • GPA: 3.77/4.00

WEBSITE

https://zachtheyek.github.io/

FEATURED EXPERIENCES

2021 - present **Berkeley SETI Research Center**
Research Assistant/Intern, Telescope Observer
• Developed sequence models commonly used in NLP to generate vector embeddings of dynamic spectral data.
• Used vector embeddings to perform downstream tasks, such as clustering, classification, and anomaly detection.
• Searched for additional intermodulation products using Computer Vision architectures, e.g. CNNs and Autoencoders.
• Regularly operated and monitored the CSIRO Parkes Telescope for the Breakthrough Listen collaboration.

2019 - present **Department of Physics, Fredonia**
Undergraduate Researcher
• Performed interferometric calibrations on existing data to account for atmospheric effects, before extracting the target's circumstellar disk mass.
• Established a linearity correction calibration procedure for the CCD camera in the Fredonia Observatory.
• Used radiative transfer models to investigate indirect methods for measuring protostellar luminosity.

HARD SKILLS

Python		Statistics	
Jupyter		ML	
SQL		Bash	
Git		LaTeX	

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