

ETHAN YOUNG

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EDUCATION

University of California, Los Angeles
B.S. Data Theory

Senior, Anticipated Graduation 2023

EXPERIENCE

Undergraduate Researcher
Emory University

August 2022 - Present

- Working under Dr. Carl Yang to apply machine learning techniques to genomic data.
- Conducted exploratory data analysis and will use the data to learn a medical knowledge graph.

REU Undergraduate Researcher
Emory University

May 2022 - July 2022

- Worked under Dr. Carl Yang in a team at the Emory REU/RET on computational mathematics for data science.
- Benchmarked the performance of graph kernel methods and graph neural networks on brain network data constructed from fMRI scans.
- Published a manuscript, gave a talk, and presented a poster on the project.

Undergraduate Researcher
University of California, Los Angeles

April 2022 - Present

- Working under Dr. Mason Porter to study dynamical importance and network perturbations.
- Compared how different network structures affect how edge removals change the dominant eigenvalue.
- Derived an improved approximation using the power method and Rayleigh quotients.

Undergraduate Researcher
University of California, Los Angeles

April 2022 - Present

- Working under Dr. Yu Song and Dr. Mathieu Bauchy at UCLA PARISlab (Physics of Amorphous and Inorganic Solids Lab).
- Modeled the viscosity of glass silicates with symbolic regression using genetic programming.

PUBLICATIONS

Conferences

Comparing Shallow and Deep Graph Models for Brain Network Analysis. 2022 IEEE International Conference on Big Data (IEEE BigData 2022). Erica Choi, Sally Smith, **Ethan Young**.

TALKS

Conferences

IEEE BigData 2022. The First International Workshop on Neural Network Models for Brain Connectome Analysis (BrainNN2022). Osaka, Japan.