

Daniel Gleaves

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Education

University of South Carolina – Honors College

College of Engineering and Computing

Bachelor of Science in Computer Science

Columbia, SC

May 2024

Cumulative 4.0 GPA

Relevant Coursework: Algorithmic Design I/II, Unix/Linux Fundamentals, Advanced Programming Techniques, Digital Logic Design, Computer Architecture, Software Engineering, Programming Language Structures, Data Structures and Algorithms, Operating Systems, Introduction to Deep Neural Networks.

York Preparatory Academy High School

Salutatorian, Graduated with Highest Honors.

Rock Hill, SC

May 2020

Research Experience

Machine Learning and Evolution Laboratory

Columbia, SC

Undergraduate Research Assistant – Continuous Learning

May 2022 – Present

- Replicated leading continuous learning model evaluation framework.
- Implemented a basic convolutional neural network for MNIST image classification.
- Identified potential approaches for improving continuous learning performance.
- Began implementing approaches to identify candidates for further exploration.

Undergraduate Research Assistant – Material Discovery

January 2021 – May 2022

- Reviewed deep learning and material science literature to determine implementation details for a new proposed method of screening inorganic material structures for stability.
- Designed and programmed a novel graph neural network-based semi-supervised machine learning model framework for material synthesizability and formation energy prediction.
- Cleaned and utilized large-scale datasets containing millions of material structures.
- Validated model performance using hold-out and k-fold cross validation methods.
- Presented research to the public in university research showcase.
- Co-authored a research paper presenting our state-of-the-art results as the primary author (<https://doi.org/10.1039/D2DD00098A>).

Relevant Activities

Association for Computing Machinery

Columbia, SC

Vice-Chair

August 2020 – Present

- The UofSC branch of the Association for Computing Machinery has weekly meetings with talks given by members on a topic of their expertise. This club allows for the free and efficient exchange of information and ideas in computer science.
- Organized chapter meetings and social events to bring in new members.
- Led business meetings including chapter officers and university faculty regarding chapter operations.

Honors & Awards

University of South Carolina Honors College

Columbia, SC

South Carolina Palmetto Fellows

August 2020 – Present

Carter Bays Computer Science Scholarship

August 2021 – Present

Science Undergraduate Research Fellowship – Research Grant

May 2021 – Present

Magellan Scholar Award – Research Grant

May 2021 – Present

Skills & Interests

Technical: Python, PyTorch, Git, pandas, numpy, C++, and Java.

Operating Systems: Windows, MAC OS X, and Linux.

Research Interests: Machine learning, deep learning, computer vision, continuous learning.

Interests: Chinese, tennis, chess, and cooking.