

Katherine Brown

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Skills

- **Programing Languages:** Python(numpy, matplotlib, biopython, scikit-learn, qiskit) and R(ggplot2)
- **Development Tools:** Jupyter Notebook, Google Colab, Docker, Git
- **Molecular Dynamic tools:** AlphaFold3, ChimeraX
- **Biophysics tools:** PDB2PQR, APBS
- **Laboratory techniques:** Orchid tissue culture, PCR
- **Research interests:** Epigenetics, Molecular Dynamics, Space radiobiology

Experience

NeurAstra – Intern

Feb 2025 – Present

- Conducting research on DSUP using biophysics and molecular dynamic software.
- Writing essays and summaries of selected scientific papers.

Odom’s Orchids – Researcher

Aug 2024 – Present

- Assisted in laboratory setup and purchasing vital equipment.
- Orchid tissue culture techniques

Outliner – AI Tutor

Jun 2024 – Jan 2025

- Identified and documented errors in AI-generated content to improve accuracy.

Projects

GitHub - python scripts for GC content, kmers, and nucleotide frequency

Jan 2024 – Present

Education

Ave Maria University

Bachelor of Arts in Biochemistry

Sept 2016 – Jun 2020

Certificates & Coursework

UC Berkeley Extension – Data Structures

Jun 2025 – Present

UC Berkeley Extension – Introduction to Programming

Jun 2025 – Present

Coursera (JHU) – Command Line Tools for Genomic Data Science

May 2025 – Present

UC Berkeley Extension – Statistics

Jan 2025 – May 2025

Coursera (JHU) – The Data Scientist’s Toolbox

Nov 2024 – Nov 2024

Coursera (UE) – Astrobiology and the Search for Extraterrestrial Life

Nov 2024 – Nov 2024

Coursera (JHU) – Algorithms for DNA Sequencing

Sept 2024 – Aug 2025

Coursera (JHU) – Python for Genomic Data Science

Sept 2024 – Oct 2024

Coursera (JHU) – Introduction to Genomic Technologies

Sept 2024 – Sept 2024

Ed2go (UCF) – Introduction to Python

Apr 2024 – June 2024

MIT xPRO – Quantum Computing Fundamentals

Sept 2023 – Dec 2023