

Gillen Brown

gillenbrown@gmail.com | github.com/gillenbrown

Future Ph.D graduate with extensive technical and analytic skills,
seeking position in data science or computer science.

Education

University of Michigan

Ph.D. in Astronomy

Ann Arbor, MI

September 2016-May 2022

Topic: Chemical Evolution of Simulated Milky Way Sized Galaxies

Summary: Added functionality to existing C codebase that models galaxy formation, then ran simulations on supercomputers such as NASA's Pleiades cluster to understand how different elements are distributed within galaxies.

University of Missouri-Kansas City

B.S. Physics with emphasis in Astronomy

Kansas City, MO

May 2016

Math minor

Computer Science minor

4.0 GPA

Technical Skills

Extensive Experience

- Python (and associated scientific computing packages such as NumPy, SciPy, Matplotlib, Jupyter)
- C/C++
- Unix
- LaTeX

Some Experience — R, HTML, CSS, git, Job Schedulers (Slurm, Torque)

Soft Skills

- **Technical/Scientific Writing** — Currently an author on three scientific articles, with more upcoming.
- **Teaching** — Facilitated astronomy labs, designed and taught my own course, and will soon obtain a *Graduate Teaching Certificate* from the UM Center of Research on Learning and Teaching.
- **Collaboration** — Worked with several faculty and fellow graduate students on my thesis project.
- **Public Speaking** — Presented my scientific work at conferences and other formal venues and more casual settings such as Ann Arbor Nerd Nite and Astronomy on Tap.
- **Leadership** — Took leadership role among UM-Astronomy graduate students, including representing graduate students in several departmental settings.
- **Critical Thinking** — Developed the ability to evaluate claims from myself and others in both qualitative and quantitative ways, including familiarity with statistical analyses
- **Project Management** — Developed and executed thesis project spanning multiple years.
- **Problem Solving** — Discovered solutions to complex problems on the bleeding edge of scientific research on all levels of a project, from fixing technical glitches to developing creative experiments

Awards

- **Michigan Basketball Data Madness Challenge** — Won a UM competition by extracting actionable insights from basketball player performance data.