

# Gillen Brown

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

## Education

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### 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

## Awards

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- Michigan Basketball Data Madness Challenge — Winner

## Soft Skills

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- **Technical/Scientific Writing** — Currently an author on two 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

## Technical Skills

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### Some Experience

- R
- HTML/CSS
- Job Schedulers (Slurm, Torque)

### Extensive Experience

- Python (and associated scientific computing packages such as NumPy, SciPy, Matplotlib, Jupyter)

## Gillen Brown — Resume

- C/C++
- Unix
- LaTeX
- Version Control Software (git, Mercurial)