# Gillen Brown

gillenbrown@gmail.com

#### **Education**

University of Michigan

Ann Arbor, MI

Ph.D. in Astronomy September 2016 — May 2022

Advisor: Oleg Y. Gnedin

Dissertation: Investigating the Formation of Star Clusters with Simulations and Observations

University of Missouri-Kansas City (UMKC)

Kansas City, MO

May 2016

B.S. Physics with emphasis in Astronomy Math and Computer Science minors

#### **Publications**

- 5. **Brown, G.**, Gnedin, O. Y., "Testing Feedback from Star Clusters in Simulations of the Milky Way Formation", 2022, MNRAS, 514, 280
- 4. Brown, G., Gnedin, O. Y., "Radii of Young Star Clusters in Nearby Galaxies", 2021, MNRAS, 508, 5935
- 3. **Brown, G.**, Gnedin, O. Y., "Improving performance of zoom-in cosmological simulations using initial conditions with customized grids", 2021, New Astronomy, 84, 101501
- 2. Brown, G., Gnedin, O. Y., "Nuclear Star Clusters in Cosmological Simulations", 2018, ApJ, 864, 94
- 1. Gonzalez, A., Gettings, D., Brodwin, M., et al. including **Brown, G.**, "The Massive and Distant Clusters of WISE Survey. I: Survey Overview and a Catalog of >2000 Galaxy Clusters at z≃1", 2019, ApJS, 240, 33

#### **Presentations**

- Origins Workshop ISM, Star and Cluster Formation, January 2022, talk: "Radii of Young Star Clusters in Nearby Galaxies"
- Santa Cruz Galaxy Workshop, August 2019, poster: "Star Cluster Formation in Cosmological Simulations"

## Awards, Grants, and Computing Time Allocations

| University of Michigan — Rackham Predoctoral Fellowship 202  | 21-2022 |
|--|---------|
| HST Cycle 29 Program AR-16614 — "Measuring sizes of young star clusters in nearby galaxies"          | 2021    |
| TACC Frontera — 2.38 million CPU-hour allocation, Co-I (Oleg Y. Gnedin)                              | 2021    |
| XSEDE Stampede2 and Anvil — 5.7 million CPU-hour allocation, Co-I (Oleg Y. Gnedin)                   | 2021    |
| XSEDE Stampede2 — 7.44 million CPU-hour allocation, Co-I (Oleg Y. Gnedin)                            | 2020    |
| Michigan Institute for Computational Disovery and Engineering — Catalyst Grant, Co-I (Oleg Y. Gnedir | 2020    |

### **Teaching**

| GSI, Astro 201 — Introduction to Astrophysics                                 | Winter 2021             |
|---|-------------------------|
| Graduate Student GSI Mentor   | Fall 2019 — Winter 2021 |
| Instructor of Record, Astro 127 — Naked Eye Astronomy                         | Spring 2019             |
| GSI, Astro 102 — Introductory Astronomy: Stars, Galaxies, and the Universe    | Winter 2019             |
| GSI, Astro 107 — The Dark Side of the Universe                                | Winter 2019             |
| GSI, Astro 101 — Introductory Astronomy: The Solar System and Search for Life | Winter & Fall 2017      |

### Gillen Brown — CV

# Activities

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|--|------------------------|
| UM Astronomy DEI Champion Award Winner   | 2021                   |
| UM Astronomy Antiracism Reading Group — Leadership Team                        | 2020 — 2021            |
| UM Astronomy Galaxy Group Organizer  | 2019 - 2021            |
| UM Astronomy Curriculum Committee — Graduate Student Representative            | 2018, 2021             |
| Michigan Institute for Data Science — Basketball Data Challenge — Winner       | 2020                   |
| UM Astronomy Prospective Student Weekend Organizer                             | 2020                   |
| UM Astronomy Prelim Review Committee — Graduate Student Representative         | 2019 — 2020            |
| UM Astronomy Graduate Student Colloquium Lunch Organizer                       | 2018 — 2019            |
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| Outreach   |                        |
| Michigan Dark Skies Group — Co-Coordinator                                     | 2017 - 2022            |
| Astronomy on Tap: Ann Arbor — Leadership Team                                  | 2019 — 2021            |
| University of Michigan Museum of Natural History Science Communication Fellow  | 2019                   |
| Public Talks   |                        |
| Brighton District Library, "Light Pollution and Michigan's Dark Skies"         | May 2022               |
| Warren Astronomical Society, "Origin of the Elements"                          | May 2021               |
| Plymouth District Library, "Light Pollution and Michigan's Dark Skies"         | February 2021          |
| University of Michigan Museum of Natural History, "Building the Universe"      | 9 times in 2019 — 2020 |
| Astronomy on Tap: Ann Arbor, "Origin of the Elements"                          | October 2019           |
| Ann Arbor Hands-On Museum, "How the Moon Formed"                               | July 2019              |
| Ellis Library & Reference Center, "The Scientific Legacy of the Moon Landings" | July 2019              |
| Nerd Nite Ann Arbor, "Origin of the Elements"                                  | March 2019             |
| Ignite Ann Arbor, "Reclaiming the Night Sky"                                   | November 2018          |
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