# Gillen Brown

Department of Astronomy, University of Michigan — gillenb@umich.edu

#### Education

University of Michigan Ph.D. in Astronomy Ann Arbor, MI

September 2016 — April 2022

Advisor: Oleg Y. Gnedin

Topic: Chemical Evolution of Simulated Milky Way Sized Galaxies

University of Missouri-Kansas City (UMKC)

Kansas City, MO

May 2016

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

### **Publications**

- 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**

- Santa Cruz Galaxy Workshop, August 2019, poster: "Star Cluster Formation in Cosmological Simulations"
- University of Michigan Graduate Student Lunch Talks, December 2019, talk: "Galactic Chemical Evolution in Cosmological Simulations"
- University of Michigan Graduate Student Lunch Talks, April and September 2017, talk: "Nuclear Star Clusters in Cosmological Simulations"

## Awards, Grants, and Computing Time Allocations

University of Michigan — Rackham Predoctoral Fellowship 20	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	n) 2020

### Teaching

Graduate Student GSI Mentor	Fall 2019 — Present
GSI, Astro 201 — Introduction to Astrophysics	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

UM Astronomy Antiracism Reading Group — Leadership Team	2020 — present
UM Astronomy DEI Champion Award Winner	2021
UM Astronomy Galaxy Group Organizer	2019 — present
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

# Outreach

Astronomy on Tap: Ann Arbor — Leadership Team	2019 — present
Michigan Dark Skies Group — Co-Coordinator	2017 — present
University of Michigan Museum of Natural History Science Communication Fellow	2019

### Public Talks

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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