# Gillen Brown

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

#### Education

University of Michigan

Ph.D. in Astronomy

Ann Arbor, MI

September 2016 — May 2022

Advisor: Oleg Y. Gnedin

Topic: Chemical Evolution of Simulated Milky Way Sized Galaxies

University of Missouri-Kansas City (UMKC)

Kansas City, MO

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

May 2016

#### **Publications**

- 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  $z \simeq 1''$ , 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"

### **Grants and Computing Time Allocations**

XSEDE Stampede2 — 7.44 million CPU-hour allocation, Co-I (Oleg Y. Gnedin) Michigan Institute for Computational Disovery and Engineering — Catalyst Grant, Co-I (Oleg Y. Gnedin) 2020

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 Galaxy Group Organizer	2019 — present
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 Curriculum Committee — Graduate Student Representative	2018 - 2019
UM Astronomy Graduate Student Colloquium Lunch Organizer	2018 - 2019

### Outreach

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

### **Public Talks**

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