Gillen Brown

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University of Michigan Ann Arbor, MI

Ph.D. in Astronomy Advisor: Olea Y. Gnedin September 2016-present

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

- Brown, G., Gnedin, O. Y., "Nuclear Star Clusters in Cosmological Simulations", 2018, ApJ, 864, 94
- 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,
 accepted

Academic Presentations

- 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"
- UMKC Graduate Student Seminar, April 2016, talk: "Quantifying the Effect of WISE Data on Euclid Stellar Mass Estimates"
- Mid-American Regional Astrophysics Conference, April 2016, talk: "Quantifying the Effect of WISE Data on Euclid Stellar Mass Estimates"
- Mid-American Regional Astrophysics Conference, April 2015, talk: "An Accurate Method for Measuring Redshifts of High Redshift Galaxy Clusters"

Teaching

Graduate Student Instructor

2017, 2019

Led discussion sections and graded work for introductory astronomy classes for non-science majors

Supplemental Instruction (SI) Mentor

Fall 2015 — Spring 2016

Assisted other SI leaders in developing and executing group study sessions Helped in developing SI Leader training

Supplemental Instruction Leader

Fall 2014 — Fall 2015

Led study groups for calculus-based introductory physics classes. Awarded *SI Leader of the Term* for Spring 2015

Teaching Assistant

Fall 2014 — Spring 2015

Assisted in class and graded labs for introductory astronomy lab for non-science majors

Outreach

University of Michigan Museum of Natural History Science Communication Fellow

2019

Includes professional development workshops on effectively engaging the public Will create a hands-on activity to share with K-12 students at Museum events

Public Talks

Ellis Library & Reference Center, *upcoming: July 2019*, "The Scientific Legacy of the Moon Landings" Nerd Nite Ann Arbor, *upcoming: March 2019*, "Making a Universe From Scratch" Ignite Ann Arbor, November 2018, "Reclaiming the Night Sky"

Vice President of UMKC Society of Physics Students

2014 - 2016

Engaged in many science outreach activities and physics demonstrations to local groups Organized partnerships with local under-served school districts to enrich science education

Activities and Awards

UM Astronomy Curriculum Committee — Graduate Student Representative

2018 — present

Helped manage the undergraduate and graduate astronomy curriculum

Graduate Student Colloquium Lunch Organizer

2018 — present

Organized and ordered food for the weekly graduate student lunches with the colloquium speaker

Michigan Dark Skies Group Member

2017 — present

Met with an Ann Arbor City Council committee to encourge action to reduce light pollution Met with real estate developers and architects to encourage dark sky friendly lighting

UMKC Galaxy Evolution Group Member

2014 — **2016**

Developed a series of Python tutorials for new group members Developed a Python library for our group to make plotting easier and more visually attractive

UMKC SEARCH Research Grants

2016

Awarded 2 research grants to pursue undergraduate research at UMKC

Undergraduate Research Ambassador

Fall 2015 — Spring 2016

Presented at multiple events to recruit students into getting involved in undergraduate research

Undergraduate Research Day at the Capitol

2015

Presented my research to representatives and aides at the Missouri State Capitol