

Katherine (Katya) Gozman

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EDUCATION

University of Michigan, Ann Arbor, MI

Ph.D. Candidate in Astronomy and Astrophysics

June 2022 – present

M.S. in Astronomy and Astrophysics

June 2022

GPA: 4.0/4.0

University of Chicago, Chicago, IL

B.S. in Astrophysics, *Magna Cum Laude*

June 2020

GPA: Cumulative: 3.9/4.0, Major: 3.9/4.0

PUBLICATIONS

Refereed:

First Author:

- [1] **Gozman K.**, Bell E. F., Jang I. S., et al. (2024), *Exploring the Diversity of Faint Satellites in the M81 Group*, ApJ, 977, 179.
- [2] **Gozman K.**, Bell E. F., Smercina A., et al. (2023), *Saying Hallo to M94's Stellar Halo: Investigating the Accretion History of the Largest Pseudobulge Host in the Local Universe*, ApJ, 947, 21.

Nth Author:

- [1] Cloonan A. P., Khullar G., Napier K. A., et al. (2025), *COOL-LAMPS. VIII. Known Wide-separation Lensed Quasars and Their Host Galaxies Reveal a Lack of Evolution in M_{BH}/M_* since $z \sim 3$* , ApJ, 987, 194.
- [2] Arias J. M., Bell E. F., **Gozman K.**, et al. (2025), *Andromeda XXXV: The Faintest Dwarf Satellite of the Andromeda Galaxy*, ApJL, 982, L3.
- [3] Mork S. D., Gladders M. D., Khullar G., et al. (2025), *COOL-LAMPS. VII. Quantifying Strong-lens Scaling Relations with 177 Cluster-scale Strong Gravitational Lenses in DECaLS*, ApJ, 979, 184.
- [4] Velguth B. N., Bell E. F., Smercina A., et al. (2024), *A Timeline of the M81 Group: Properties of the Extended Structures of M82 and NGC 3077*, ApJ, 974, 189.
- [5] Klein M., Sharon K., Napier K., et al. (2024), *COOL-LAMPS. VI. Lens Model and New Constraints on the Properties of COOL J1241+2219, a Bright $z = 5$ Lyman Break Galaxy and its $z = 1$ Cluster Lens*, ApJ, 963, 44.
- [6] Zhang Y., Manwadkar V., Gladders M. D., et al. (2023), *COOL-LAMPS. IV. A Sample of Bright Strongly Lensed Galaxies at $3 < z < 4$* , ApJ, 950, 58.
- [7] Smercina A., Bell E. F., Price P. A., et al. (2023), *Origins of the Evil Eye: M64's Stellar Halo Reveals the Recent Accretion of an SMC-mass Satellite*, ApJL, 949, L37.
- [8] Martinez M. N., Napier K. A., Cloonan A. P., et al. (2023), *COOL-LAMPS. III. Discovery of a 25.''9 Separation Quasar Lensed by a Merging Galaxy Cluster*, ApJ, 946, 63.
- [9] Sukay E., Khullar G., Gladders M. D., et al. (2022), *COOL-LAMPS. II. Characterizing the Size and Star Formation History of a Bright Strongly Lensed Early-type Galaxy at Redshift 1.02*, ApJ, 940, 42.
- [10] Bell E. F., Smercina A., Price P. A., et al. (2022), *Ultrafaint Dwarf Galaxy Candidates in the M81 Group: Signatures of Group Accretion*, ApJL, 937, L3.
- [11] Florian M. K., Rigby J. R., Acharyya A., et al. (2021), *Spatial Variation in Strong Line Ratios and Physical Conditions in Two Strongly Lensed Galaxies at $z \sim 1.4$* , ApJ, 916, 50.
- [12] Khullar G., **Gozman K.**, Lin J. J., et al. (2021), *COOL-LAMPS. I. An Extraordinarily Bright Lensed Galaxy at Redshift 5.04*, ApJ, 906, 107.

General Public:

- [1] **Gozman, K.** (2023, October 25). *Astronomers find stars cast away from Galactic Neighbors*. Sky & Telescope. <https://skyandtelescope.org/astronomy-news/astronomers-find-stars-cast-away-from-galactic-neighbors/>
- [2] >20 Astrobites posts, including daily summaries, interviews, live-blogging, and reviews, with 3 bites reposted on AAS Nova. <https://astrobites.org/author/kgozman/>

RESEARCH EXPERIENCE

University of Michigan, Ann Arbor, MI

Advisor: Eric Bell

2020-present

- Measuring the kinematics of NGC 253's stellar halo using multi-object, fiber-fed spectroscopy
- Finding and characterizing ultra-faint dwarf galaxies in the Local Volume

Updated July 2025

- Characterizing M94's stellar halo using Subaru's HSC

University of Chicago, Chicago, IL

Advisor: Michael Gladders

2018-2020

- COOL-LAMPS: ChicagO Optically-selected strong Lenses - Located At the Margins of Public Surveys
- Photometric data from morphological models of strongly lensed galaxies

Advisor: Brian Nord

2019-2020

- Fast Inference for strong gravitational lenses

Advisor: Daniel Fabrycky

2017-2018

- Alpha Centauri flybys and habitability of exoplanets

WORK and TEACHING EXPERIENCE

University of Michigan, Ann Arbor, MI

Detroit Observatory Student Docent

2022-present

(Lead Docent since 2024)

Teaching Assistant, *Astronomical Techniques*

Winter 2025

University of Michigan Museum of Natural History Planetarium Operator

2022

Teaching Assistant, *Ground Based Observatories*

May 2023

Teaching Assistant, *Introduction to Astrophysics*

Winter 2021, Fall 2022

Yerkes Observatory, Williams Bay, WI

Innovators Developing Accessible Tools in Astronomy (IDATA) Undergraduate Mentor

2017-2019

Intern Supervisor

Jun-Aug 2018

Telescope Operator and Tour Guide

Jun-Sep 2018

University of Chicago, Chicago, IL

Teaching Assistant, *Physics of Stars*

Jun-Jul 2019

Grader, *The Milky Way*

Apr-June 2019

POSTERS, TALKS, and CONFERENCES

Poster & Flash Talks, Galactic Frontiers II: Dwarf Galaxies in the Local Volume and Beyond

Jun 2025

Seminar, Universidad de Chile

Jun 2025

Seminar, Pontificia Universidad Católica de Chile

Jun 2025

Seminar, European Southern Observatory

Jun 2025

Poster & Flash Talk, Dwarf Galaxies, Star Clusters, and Streams in the LSST Era

Jul 2024

8 public talks at the Detroit Observatory on various astronomy-related topics

2022-2024

Colloquium, Universidad de La Serena, Chile

Sep 2023

Webinar, iTelescope

Feb 2023

Invited Talk, University of Connecticut Astronomy Seminar

Oct 2022

Poster, AAS 240

Jun 2022

Invited Press Conference, AAS 240

Jun 2022

Invited Public Talk, Chicago Astronomical Society

Feb 2020

Poster, AAS 235

Jan 2020

Conference Talk, SciAccess Conference

Jun 2019

Poster, AAS 233

Jan 2019

SERVICE and OBSERVING

Service:

UM Astronomy Admissions Committee Member

2025

UM Astronomy Prospective Student Weekend Coordinator

2024

University of Michigan Internal Magellan TAC Member

2023A, B Semesters

Observing Experience:

Magellan/FOURSTAR, ½ night

2025A

Magellan/FIRE, 1 night

2025A

Magellan/MagE, 2 nights

2025A

Magellan Service Observing run w/ M2FS and IFUM, 21 nights

Sep 2022, 2023, 2024

MDM Observatory, 4 nights

2023

Updated July 2025

ACCEPTED OBSERVING PROPOSALS

JWST #8277 NIRCам/Imaging & NIRISS/Imaging (Co-I, 73.9 primary/34.2 parallel hours)	Cycle 4
HST #17797 (Co-I, SNAP 106 orbits)	Cycle 32
Magellan/M2FS (PI, total 4 nights)	2023B, 2024B
Gemini Exchange w/ HSC (Co-I, 7 hours)	2023A

OUTREACH and ACTIVITIES

University of Michigan , Michigan, MI	
Saturday Morning Physics Presenter	March 2025
Astronomía en Español Hispanic Heritage Month Event Planner	Fall 2024
Letters to a Pre-Scientist Writer	2023-2024
National Association of Science Writers (NASW) David Perlman Virtual Mentoring Program Mentee	Summer 2023
Astrobiters	2021-present
<i>Author, Website Chair ('21-22), AAS Chair ('22-23), Scheduling ('23-25), Undergrad Chair ('23-24), Admin ('24-25)</i>	

Geneva Lake Astrophysics and Steam, Williams Bay, WI

Volunteer	2018-present
<i>Assist in public programs, livestreams, and star parties, create marketing + media materials</i>	
Stone Edge All-Sky Survey (SEAS)	2020-2021
<i>Mentored students from Western Africa in astronomy, observing, and data reduction</i>	

University of Chicago, Chicago, IL

Society of Women in Physics (SWIP)	
Co-President	2019-2020
Outreach Coordinator	2018-2019
Ryerson Astronomical Society	
Outreach Coordinator	2019-2020
UChicago Science Olympiad	
Logistics Coordinator	2016-2017

MEDIA COVERAGE

Life and Death in Nearby Galaxies (https://skyandtelescope.org/astronomy-news/galaxies-life-death/)	2022
The Quiet Life of M94 (https://news.umich.edu/the-quiet-life-of-messier-94/)	2022
The Stone Edge All-Sky Survey — Addressing Undergraduate Research Experiences During the Pandemic (https://aas.org/posts/news/2021/04/stone-edge-all-sky-survey-addressing-undergraduate-research-experiences-during)	2021

SKILLS

Computer: Python, LaTeX, SAOImage DS9, Microsoft Office, Adobe Illustrator, Wordpress, Tableau, Flourish
Language: Russian (Heritage Speaker), Spanish (intermediate)

HONORS, GRANTS, and AWARDS

Rackham Conference Travel Grant	2024
NSF Graduate Research Fellowship Program Honorable Mention	2021
Harper Award for Exceptional Performance in a Course: Field Course in Astronomy and Astrophysics	2020
Phi Beta Kappa	2020
Dean's Fund for Undergraduate Research (presentation support at the 2020 American Astronomical Society conference)	2020
Student Marshal (among the highest honors conferred by the University upon undergraduate students, based upon academic performance and involvement in and contributions to campus and the community)	2019
Dean's List	2016-2019