

Nathalie Chicoine

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Education	University of Pittsburgh <i>Ph.D Student in Physics and Astronomy</i>	Aug. 2024 - Present
	University of Chicago <i>Bachelor of Science in Astrophysics with Honors</i> <i>Bachelor of Arts in English Literature</i>	Sep. 2019 - Jun. 2023
Research Experiences	Graduate Student <i>University of Pittsburgh</i> Mentored by Dr. Rachel Bezanson Development of composite SEDs in the JWST UNCOVER and MINERVA surveys to track the evolution of galaxy populations across cosmic time	Aug. 2024- - Present
	Undergraduate Independent Study and Senior Thesis <i>University of Chicago</i> Mentored by Dr. Judit Prat and Dr. Chihway Chang Conducted weak gravitational lensing measurements around a sample of 23,790 low surface brightness galaxies to constrain their halo masses	Sep. 2021-Jul. 2024
	Research Assistant <i>Fermi National Accelerator Laboratory</i> Mentored by Dr. Chihway Chang and Dr. Alex Drlica-Wagner Extracted cosmological inferences from cosmic shear measurements in the DELVE survey	Aug. 2023 - Present
	Undergraduate Independent Study <i>University of Chicago</i> Mentored by Dr. Michael Gladders Produced spectral energy distribution profiles for strongly lensed quasars with the COOL-LAMPS collaboration	Jan. 2021 - Jun. 2022
Awards and Honors	European Southern Observatory Studentship in Santiago, Chile Dean's List Enrico Fermi Scholar Physical Sciences Collegiate Divisional Honors Elected to Phi Beta Kappa	2026-2027 2020-2022 2021-2022 2023
Publications	1. <i>Weak Gravitational Lensing around Low Surface Brightness Galaxies in the DES Year 3 Data</i> Chicoine, N. , Prat, J., et al. (2024) https://doi.org/10.33232/001c.124536 2. <i>The DECADE cosmic shear project III: validation of the analysis pipeline using spatially inhomogeneous data</i> Anbajagane, D., Chang, C., Chicoine, N. , et al. (2025) arXiv: 2502.17676	
Talks and Conferences	Astronomy on Tap, Pittsburgh End of Star Formation Conference	March 2026 March 2026

	MINERVA Telecom	February 2026
	MINERVA Collaboration Meeting	September 2025
	Fermilab SULI Presentation	April 2024
	Fermilab SULI Presentation	December 2023
	DES Fall Collaboration Meeting	October 2023
	KICP Lensing at Different Scales Workshop	August 2023
	Undergraduate Honors Thesis Seminar	June 2023
	DES Weak Lensing Telecom	February 2022
	Undergraduate Research Symposium (Remote)	May 2021
Teaching		
	Teaching Assistant: "Introduction to Astronomy" — <i>Prof. Schneider</i>	Spr. 2025
	Session Leader: "Python Boot Camp"	Spr. 2025
	Teaching Assistant: "Classical Mechanics" — <i>Prof. Broccio</i>	Fall. 2024
	Teaching Assistant: "Stars & Black Holes" — <i>Prof. Cattaneo</i>	Sum. 2023
	Teaching Assistant: "Computational Astrophysics" — <i>Prof. Kravtsov</i>	Spr. 2022
Outreach		
	Volunteer Tutor	Jan. 2026-Present
	<i>Hello Neighbor Pittsburgh</i>	
	Volunteer tutor for newly settled refugee or immigrant students in grades 6-12	
	Graduate Student Mentor	Aug. 2025-Present
	<i>University of Pittsburgh Department of Physics and Astronomy</i>	
	Student mentor for three first year or transfer graduate students in the Pitt Physics and Astronomy department	
	Volunteer at Allegheny Observatory	Sep. 2025
	<i>Allegheny Observatory Open House</i>	
	Speaker for the Ask an Astronomer section of the annual Allegheny Observatory open house	
	SPS Mentor	Aug. 2025-Present
	<i>Society of Physics Students</i>	
	Graduate mentor an undergraduate student at the University of Pittsburgh	
	Business Manager	Aug. 2025-Present
	<i>Women and Minorities in Physics</i>	
	Arranged bimonthly meetings and events, organized expenses and funding resources	
	Direct Action Coalition Co-Leader	Jan. 2025-Present
	<i>Direct Action Coalition</i>	
	Organizational chair for Physics Equity Week, developed graduate student move-in assistance program	
	Outreach Intern	Jun. 2021 - Sep. 2021
	<i>CMBS-4 Collaboration</i>	
	Redesigned CMBS-4 Collaboration website, established resource archive and YouTube channel, hosted monthly outreach events for teens	