

# Nathalie Chicoine

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(707) 484 - 5506  
nmc130@pitt.edu

Education	<b>University of Pittsburgh</b>	Aug. 2024 - Present
	<i>Ph.D Student in Physics and Astronomy</i>	
	<b>University of Chicago</b>	Sep. 2019 - Jun. 2023
	<i>Bachelor of Science in Astrophysics with Honors</i> <i>Bachelor of Arts in English Literature</i>	
Research Experiences	<b>Graduate Student</b>	Aug. 2024- - Present
	<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	
	<b>Undergraduate Independent Study and Senior Thesis</b>	Sep. 2021-Jul. 2024
	<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	
	<b>Research Assistant</b>	Aug. 2023 - Present
	<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	
	<b>Undergraduate Independent Study</b>	Jan. 2021 - Jun. 2022
	<i>University of Chicago</i>	
	Mentored by Dr. Michael Gladders	
	Produced spectral energy distribution profiles for strongly lensed quasars with the COOL-LAMPS collaboration	
Awards and Honors	European Southern Observatory Studentship in Santiago, Chile	2026-2027
	Dean's List	2020-2022
	Enrico Fermi Scholar Physical Sciences Collegiate Divisional Honors	2021-2022
	Elected to Phi Beta Kappa	2023
Publications	1. <i>Weak Gravitational Lensing around Low Surface Brightness Galaxies in the DES Year 3 Data</i>	
	<b>Chicoine, N.</b> , Prat, J., et al. (2024) <a href="https://doi.org/10.33232/001c.124536">https://doi.org/10.33232/001c.124536</a>	
	2. <i>The DECADE cosmic shear project III: validation of the analysis pipeline using spatially inhomogeneous data</i>	
	Anbajagane, D., Chang, C., <b>Chicoine, N.</b> , et al. (2025) arXiv: 2502.17676	
Talks and Conferences	Astronomy on Tap, Pittsburgh	March 2026
	End of Star Formation Conference	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
<b>Teaching</b>	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
<b>Outreach</b>	<b>Volunteer Tutor</b>	Jan. 2026-Present
	<i>Hello Neighbor Pittsburgh</i>	
	Volunteer tutor for newly settled refugee or immigrant students in grades 6-12	
	<b>Graduate Student Mentor</b>	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	
	<b>Volunteer at Allegheny Observatory</b>	Sep. 2025
	<i>Allegheny Observatory Open House</i>	
	Speaker for the Ask an Astronomer section of the annual Allegheny Observatory open house	
	<b>SPS Mentor</b>	Aug. 2025-Present
	<i>Society of Physics Students</i>	
	Graduate mentor an undergraduate student at the University of Pittsburgh	
	<b>Business Manager</b>	Aug. 2025-Present
	<i>Women and Minorities in Physics</i>	
	Arranged bimonthly meetings and events, organized expenses and funding resources	
	<b>Direct Action Coalition Co-Leader</b>	Jan. 2025-Present
	<i>Direct Action Coalition</i>	
	Organizational chair for Physics Equity Week, developed graduate student move-in assistance program	
	<b>Outreach Intern</b>	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	