

# Reece Clark

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## Education

<b>University of North Carolina at Chapel Hill (UNC-CH)</b>	<i>Chapel Hill, NC. 2022 - 2026</i>
Physics, BS (Astrophysics Option)	<i>Major GPA: 3.42</i>
Geological Sciences, BA (Earth Sciences Option)	<i>Major GPA: 3.71</i>
	<i>Cumulative GPA: 3.52</i>

## Research & Work Experience

<b>Undergraduate Researcher</b>	<i>Fall 2023–Present</i>
Dept. of Physics and Astronomy, UNC-CH Developed software packages and data pipelines for processing radio astronomy data. Participated in hackathons at Pisgah Astronomical Research Institute (PARI) and Green Bank Observatory (GBO).	
<b>REU Intern – Research Internships in Ocean Sciences (RIOS)</b>	<i>Summer 2024</i>
Dept. of Marine and Coastal Sciences, Rutgers University, New Brunswick, NJ Designed a software package and interactive viewer for EM2040 sonar data. Assisted with ocean glider deployment for hydrographic surveillance. Continued work into Spring 2025.	
<b>Participant and Educator – Educational Research in Radio Astronomy (ERIRA)</b>	<i>August 2023, 2025</i>
University of North Carolina / Green Bank Observatory (GBO), Green Bank, WV Contributed to radio astronomy education and research as both a student and returning educator.	
<b>Research Intern – Joint School of Nanoscience and Nanoengineering (JSNN)</b>	<i>Summer 2022</i>
NC A&T and UNCG, Greensboro, NC Conducted protein synthesis and Raman spectroscopy on 2D materials. Built computational models of spectral signatures.	
<b>Draelos Scholar</b>	<i>Summer 2021</i>
NC A&T and UNCG, Greensboro, NC Maintained lab equipment and performed protein synthesis and Raman spectroscopy on 2D materials.	

## Poster Presentations

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*\* Invited presentation*

<b>Visibility in Physics (ViP) Symposium</b>	<i>April 24, 2025</i>
<i>Skynet 2 and Astromancer: Empowering Students to Explore the Universe</i> Chapel Hill, NC	
<b>Celebration of Undergraduate Research (CUR)</b>	<i>April 23, 2025</i>
<i>Radio Astronomy: What Is It, How Do We Do It, and What Tools Do We Use?</i> Chapel Hill, NC	
<b>NC Space Grant Symposium*</b>	<i>April 11, 2025</i>
<i>Skynet 2 and Astromancer: Empowering Students to Explore the Universe</i> Raleigh, NC	

<b>Association for the Sciences of Limnology and Oceanography (ASLO)</b> <i>Hot Pockets of the Deep: Sonar Mapping of Hydrothermal Plumes</i> Charlotte, NC	March 26-31, 2025
<b>Southeastern Section of the American Physical Society (SESAPS)</b> <i>Skynet 2: Expansion and Improvement of the Skynet Robotic Telescope Network</i> Charlotte, NC	October 24-25, 2024
<b>North Carolina Astronomer's Meeting (NCAM)</b> <i>Skynet 2: Expansion and Improvement of the Skynet Robotic Telescope Network</i> Greensboro, NC	October 5, 2024
<b>Rutgers Department of Marine and Coastal Sciences*</b> <i>Hot Pockets of the Deep: Sonar Mapping of Hydrothermal Plumes</i> New Brunswick, NJ	August 10, 2024
<b>Celebration of Undergraduate Research (CUR)</b> <i>Skynet 2: Expansion and Improvement of the Skynet Robotic Telescope Network</i> Chapel Hill, NC	April 29, 2024
<b>Visibility in Physics (ViP) Symposium</b> <i>Skynet 2: Expansion and Improvement of the Skynet Robotic Telescope Network</i> Chapel Hill, NC	April 29, 2024

## Grants

<b>Travel Grant:</b> <i>American Physical Society:</i> Grant awarded to support travel and attendance at SESAPS. Award amount: <b>\$350.00.</b>	October 2024
<b>Summer Intern:</b> <i>National Science Foundation:</i> Grant awarded to conduct ocean sciences research. Award amount: <b>\$7000.00.</b>	Summer 2024
<b>Research Scholar:</b> <i>NASA/North Carolina Space Grant:</i> Grant awarded to lead an astronomy-based research project. Award amount: <b>\$8000.00.</b>	June 2024-May 2025
<b>Research Scholar:</b> <i>Draelos Science Scholars:</i> Grant awarded to conduct nanobiophysics research over the course of 6 weeks. Award amount: <b>\$800.00.</b>	Summer 2021
<b>Total Amount: \$16,150.00</b>	

## Leadership & Outreach

<b>Society of Physics Students (SPS) President</b> Manage UNC Chapel Hill's SPS chapter, and ensure that all activities and obligations are executed properly and efficiently.	June 2025-May 2026
<b>Society of Physics Students (SPS) Outreach Coordinator</b> Manage outreach events and perform responsibilities for the SPS executive board. Spearheaded outreach efforts across the community.	June 2024-May 2025
<b>Outreach Events:</b>	
VisPhys: Hands-on Physics Workshops	Spring 2025
Hospital School Outreach	Fall 2024- (Weekly)
Science is Awesome! Day	Fall 2024- (Biannual)

Science Expo	<i>Spring 2024- (Annual)</i>
STEAM Night at Glenwood Elementary	<i>Spring 2024- (Annual)</i>
Astronomy Days at North Carolina Museum of Natural Sciences (NCMNS)	<i>Spring 2023- (Annual)</i>
STEAM Night at Scroggs Elementary	<i>Spring 2023- (Annual)</i>

## Programming & Technical Skills

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**Programming/Markdown Languages:** Python, Typescript, HTML/CSS, C++, MATLAB,  $\text{\LaTeX}$

**Technical Skills:** Integration Methods, Data Analysis & Modeling, Software Development, Code Infrastructure, API Development, Microcontrollers

**Tools/Software:** Git, Adobe Illustrator

## Relevant Coursework

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**Physics:** Experimental Techniques, Electromagnetism I & II, Mechanics I, Thermal Physics, Quantum Mechanics I

**Astronomy:** Introduction to Astrophysics, Observational Astronomy, Astrophysical Dynamics

**Geology:** Earth's Surface, Solid Earth, Earth Materials: Minerals, Water in Our World (with Lab)

**Programming:** Numerical Techniques for the Sciences I & II, Physical Computing