


CLAIRE RIGGS

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Research Interests

dwarf galaxies, star formation, cosmological simulations

Education

Rutgers, The State University of New Jersey

September 2020 – present

Ph.D. Candidate

University of Oklahoma

August 2016 – May 2020

Bachelors of Science (Astrophysics)

Bachelors of Arts (Sociology)

Experience

Graduate Research Assistant

September 2020 – present

Rutgers, the State University of New Jersey

Piscataway, NJ

Undergraduate Research Assistant

August 2018 – May 2020

University of Oklahoma

Norman, OK

NSF REU student

May 2019 – August 2019

Kansas State University

Manhattan, KS

Grants and Awards

University of Oklahoma, *Duane E. Roller Award*

2019

University of Oklahoma, *William Schriever Award*

2018

University of Oklahoma, *National Merit Scholar*, \$124,000

2016 – 2020

Advising and Mentoring

Mentored first-year graduate student Tehreem Hai

2023 – 2024

Mentored undergraduate Neel Thaker during his Honors Senior Research Project

2023 – 2024

Service

Rutgers Minorities in Physics and Astronomy President

2023 – 2024

N-body Shop Code of Conduct Committee Member

2023 – present

Webmaster for Rutgers Physics and Astronomy Graduate Student Organization

2023 – 2024

Rutgers Minorities in Physics and Astronomy Vice President

2022 – 2023

Rutgers Astronomy Department Journal Club Organizer

2022 – 2023

Astronomy Grad Student Recruiting Contact

2022

Teaching and Outreach

Physics Demo Outreach at Local High School

Fall 2024 – present

Course Administrator, *Extended Analytical Physics I (Rutgers)*

Fall 2024

Outreach talk on Eclipses at the Clarence Dillon Library in Bedminster, NJ

Fall 2023

Course Instructor, *Intro Astronomy for Non-majors (Rutgers)*

Spring 2023

Recitation TA, *Analytical Physics IIA for Engineering (Rutgers)*

Fall 2021

Lab TA, *General Physics I for Life Sciences (Rutgers)*

Fall 2020 & Spring 2021

Lunar Sooners Member (*University of Oklahoma*)

2016 – 2018

Talks, Posters, and Schools

Talk, <i>Small Galaxies, Cosmic Questions</i>	2024
Poster, <i>Dwarf Galaxies, Star Clusters, and Streams in the LSST Era</i>	2024
School, <i>IAA-CSIC Severo Ochoa School on Star Formation</i>	2023
Talk, <i>Galactic Frontiers: Dwarf Galaxies in the Local Volume and Beyond</i>	2023
Poster, <i>AAS 241st Meeting</i>	
Talk, <i>CCA Galaxies Group Meeting</i>	2022
Talk, <i>APS Mid-Atlantic Section Meeting</i>	2021

Publications

3. Testable Predictions of Outside-in Age Gradients in Dwarf Galaxies of All Types. **Riggs, C.L.**, Brooks, A.M., Munshi, F., Christensen, C.R., Cohen, Roger E., Quinn, T.R., Wadsley, J., 2024, *ApJ* 977:1.
2. Environment Matters: Predicted Differences in the Stellar Mass-Halo Mass Relation and History of Star Formation for Dwarf Galaxies. Christensen, C. R., Brooks, A., Munshi, F., **Riggs, C.**, Van Nest, J., Akins, H., Quinn, T., Chamberland, L., 2024, *ApJ* 961:2.
1. Stellar metallicity gradients of Local Group dwarf galaxies. Taibi, S., Battaglia, G., Leaman, R., Brooks, A., **Riggs, C.**, Munshi, F., Revaz, Y. and Jablonka, P., 2022, *A&A*, 665:A92.