

Anna Wright

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Education

- 2020 PH.D. in Physics & Astronomy, Rutgers, the State University of New Jersey
Thesis: “Discerning the Difficult-to-Detect: Star Formation in Dwarf and Low Surface Brightness Galaxies.”
Advisor: Alyson Brooks
- 2019 M.S. in Physics & Astronomy, Rutgers, the State University of New Jersey
- 2014 B.S. in Astrophysics, Rice University

Awards, Fellowships, & Grants

- 2019 Robert A. Schommer Prize
- 2018 American Astronomical Society International Travel Grant
- 2016-2020 Association for Computing Machinery Special Interest Group on High Performance Computing/Intel Computational & Data Science Fellowship
- 2015 Noemie Koller Endowed Scholarship
- 2015 National Science Foundation Graduate Fellowship Honorable Mention
- 2014-2015 Graduate Assistance in Areas of National Need Fellowship
- 2014 Alexander J. & Lorraine H. Dessler Award in Space Physics
- 2013 Rice University Department of Physics & Astronomy Summer Research Fellowship
- 2013 Rice Space Institute Award
- 2010-2014 Rice University Trustee Distinguished Scholarship

Seminars & Conference Presentations

- 2020 “The Formation of Ultra-Diffuse Galaxies in the Field.” *Johns Hopkins University Center for Astrophysical Sciences Wine & Cheese Seminar*. Baltimore, MD, USA.
- 2020 “The Formation of Isolated Ultra-Diffuse Galaxies in ROMULUS25.” *Princeton Galread Seminar*. Princeton, NJ, USA.
- 2020 “The Formation and Evolution of Low Surface Brightness Galaxies in Romulus.” *235th Meeting of the American Astronomical Society*. Honolulu, HI, USA.
- 2019 “Denizens of the Low Surface Brightness Universe.” *Vanderbilt University*. Nashville, TN, USA.
- 2019 “Isolated Ultra Diffuse Galaxies in the (Simulated) Wild.” *Space Telescope Science Institute*. Baltimore, MD, USA.
- 2019 “Denizens of the Low Surface Brightness Universe.” *The Ohio State University Center for*

- 2019 *Cosmology and AstroParticle Physics (CCAPP) Seminar*. Columbus, OH, USA.
 “Isolated Ultra Diffuse Galaxies in the (Simulated) Wild.” *Yale University*. New Haven, CT, USA.
- 2019 “Isolated Ultra Diffuse Galaxies in the (Simulated) Wild.” *Small Galaxies, Cosmic Questions*. Durham, England, UK.
- 2018 “Discerning the Difficult to Detect: the Dim, the Diffuse, and the Dwarfs.” *Max Planck Institute for Astrophysics Cosmology Seminar*. Garching bei München, Bavaria, Germany.
- 2018 “Reignition of Star Formation in Dwarf Galaxies.” *15th Annual Potsdam Thinkshop*. Potsdam, Brandenburg, Germany.
- 2017 “Galaxies Less Travelled: Star Formation in Low Mass and Low Surface Brightness Galaxies.” *New York Area Computational Astrophysics Meeting*. New York City, NY, USA.

Education, Leadership, & Outreach Experience

- 2019-2020 Mentor in Rutgers University Department of Physics & Astronomy Near-Peer Mentor Program
- 2019, 2020 Lab Instructor for PHYS 343: Observational Radio Astronomy
Duties: Instructing students in and out of lab on computational techniques for data reduction and analysis in radio astronomy.
- 2018 Talk: *The Sun, the Moon, and the Stars* for first grade classes at Redshaw School, New Brunswick
- 2017 Member of South African Large Telescope (SALT) Time Allocation Committee
- 2017 Talk: *Looking Out for the Little Guy: Star Formation in Dwarf Galaxies* for Rutgers Friends of Astronomy
- 2017 Panelist: *What Life is Like in Graduate School* for Research Experiences for Undergraduates, Rutgers University
- 2016-2017 Member of Rutgers University Physics & Astronomy Graduate Student Life Committee
Duties: Serving as the point of contact between graduate students and the faculty, meeting with a faculty liaison to discuss issues concerning the department’s students, and responding to inquiries from prospective graduate students about the Rutgers program.
- 2016 Panelist: *Succeeding in High Performance Computing: My Journey* for Association for Computing Machinery/Institute of Electrical and Electronics Engineers Supercomputing Conference
- 2016 Student member of Rutgers University Graduate Student Recruitment Committee
Duties: Coordinating prospective students’ visits to Rutgers and organizing activities for the prospective student open house.
- 2015-2016 Teaching Assistant for PHYS 115/116: Extended Analytical Physics I/II
Duties: Leading biweekly recitation sections, which included workshops and labs aimed at instilling a conceptual understanding of physics in mathematically underprepared freshmen.
- 2015-2016 Treasurer of Rutgers University Physics & Astronomy Graduate Student Organization
Duties: Composing and submitting budgets for graduate student activities, helping to organize these events, and submitting follow-up reports to the Rutgers University Graduate Student Association.
- 2015-2020 Member of Rutgers University Traveling Science Show (coordinator since 2018)

Duties: Annual visits to Camden Street School in Newark, NJ, where members perform and explain science demonstrations for second grade classes. As coordinator, I also contact the teachers at Camden Street to find out what the current curriculum covers and then collaborate with the Rutgers University Physics Support Specialist to put together appropriate demonstrations.

- 2015,'16,'19 Ran Q&A sessions about astronomy and graduate school for high school students
- 2015 Volunteer: *American Physical Society Conference for Undergraduate Women in Physics*
Duties: Helping to organize events for CUWiP and serving as a judge for the undergraduate poster contest.
- 2013-2014 Secretary of Rice University Society of Physics & Astronomy Students.
Duties: Writing and distributing minutes for meetings and helping to organize information sessions about Research Experiences for Undergraduates programs and graduate school.

Publications

- 2020 Carleton, T., Guo, Y., Munshi, F., Tremmel, M., & **Wright, A.**, “An Excess of Globular Clusters in UDGs Formed Through Tidal Heating”, submitted to *MNRAS*.
- 2020 **Wright, A. C.**, Tremmel, M., Brooks, A. M., Munshi, F., Nagai, D., Sharma, R. S., & Quinn, T. R., “The Formation of Isolated Ultra-Diffuse Galaxies in ROMULUS25.”, submitted to *MNRAS*.
- 2020 Tremmel, M., **Wright, A. C.**, Brooks, A. M., Munshi, F., Nagai, D., & Quinn, T. R. “The Formation of Ultra-Diffuse Galaxies in the ROMULUSC Galaxy Cluster Simulation”, *MNRAS*, 497(3):2786.
- 2020 Sharma, R., Brooks, A., Somerville, R. S., Tremmel, M., Bellovary, J., **Wright, A.**, & Quinn, T. R., “Black Hole Growth and Feedback in Isolated ROMULUS25 Dwarf Galaxies”, *ApJ*, 897, 1.
- 2019 **Wright, A. C.**, Brooks, A. M., Weisz, D. R., & Christensen, C. R., “Reignition of Star Formation in Dwarf Galaxies”, *MNRAS*, 482(1):1176.
- 2018 Hansen, E., Hartigan, P., Adams, A., **Wright, A.**, & Raymond, J. C., “Simulating Radiative Magnetohydrodynamical Flows with ASTROBEAR: Implementation and Applications of Non-Equilibrium Cooling”, *MNRAS*, 481(3):3098.
- 2015 Hartigan, P. & **Wright, A.**, “A New Diagnostic of Magnetic Field Strengths in Radiatively Cooled Shocks”, *ApJ*, 811, 12.