Anna C. Wright

Center for Astrophysical Sciences Email: acwright@jhu.edu Johns Hopkins University Website: anchwr.github.io RESEARCH INTERESTS dwarf galaxies, low surface brightness galaxies, stellar halos, galaxy mergers, cosmological simulations **EDUCATION** Ph.D. in Physics & Astronomy Piscataway, NJ Rutgers, the State University of New Jersey 2014-2020 M.S. in Physics & Astronomy Piscataway, NJ 2014-2019 Rutgers, the State University of New Jersey Houston, TX B.S. in Astrophysics Rice University 2010 - 2014EXPERIENCE Assistant Research Scientist Baltimore, MD Johns Hopkins University 2020-Present Graduate Research Assistant Piscataway, NJ 2014-2020 Rutgers, the State University of New Jersey Houston, TX Undergraduate Research Assistant Rice University 2012-2014 Grants & Awards Rutgers, Robert A. Schommer Prize, \$500 2019 AAS, International Travel Grant, \$1,500 2018 ACM & Intel, ACM SIGHPC Computational & Data Science Fellowship, \$60,000 2016-2020 Rutgers, Noemie Koller Endowed Scholarship, \$7,000 2015 NSF, Graduate Research Fellowships Program Honorable Mention 2015 Rutgers, Graduate Assistance in Areas of National Need Fellowship, \$23,000 2014-2015 Rice, Alexander J. & Lorraine H. Dessler Award in Space Physics, \$1,000 2014 Rice, Department of Physics & Astronomy Summer Research Fellowship, \$4,500 2013 Rice, Rice Space Institute Prize, \$200 2013Rice, Rice University Trustee Distinguished Scholarship, \$83,000 2010-2014 Advising & Mentoring Mentor, Binh Nguyen (STScI Space Astronomy Summer Program Student) 2022 Co-mentor, Nami Nishimura (STScI Space Astronomy Summer Program Student) 2021 Near-peer mentor, Lana Eid (Rutgers University Graduate Student) 2019-Present SERVICE Coordinator, JHU Women in Physics Mentorship Program 2022-Present

Senate Member, JHU Women in Physics

Journal Reviewer, Nature Astronomy

Committee Member, N-Body Shop Code of Conduct Committee

Application Reviewer, STScI Space Astronomy Summer Program

Application Reviewer, ACM SIGHPC Computational & Data Science Fellowship

2022-Present

2021-Present

2021, 2022

2021, 2022

2021

Panelist, What Life is Like in Graduate School (Rutgers Summer REU Program) Time Allocation Committee, SALT 2017-1 Rutgers TAC Committee Member, Rutgers Physics & Astronomy Graduate Student Life Committee Panelist, Succeeding in HPC: My Journey (Supercomputing 2016) Student Organizer, Rutgers Physics & Astronomy Graduate Student Recruitment Com Treasurer, Rutgers Physics & Astronomy Graduate Student Organization Student Organizer, APS CUWiP at Rutgers	mittee	2016
Teaching & Outreach		
Guest Lecturer, The Evolving Universe (Yale) Co-organizer, Astro Scholars (JHU/STScI) Speaker, Astro Scholars (JHU/STScI) Speaker, STScI Space Astronomy Summer Program Lab Instructor, Observational Radio Astronomy (Rutgers) Coordinator, Rutgers Traveling Science Show at Camden Street Elementary School Guest Speaker, Redshaw Elementary School Speaker, Friends of Rutgers Astronomy Teaching Assistant, Extended Analytical Physics I/II (Rutgers)	2018-	2022 2022 2022 2022 2020 -2019 2018 2017 -2016
Presenter, Rutgers Traveling Science Show at Camden Street Elementary School		-2010
	2016,	2019
Talks, Seminars, & Tutorials (†Invited)		
†Seminar, European Space Agency (scheduled) †Talk, AAS 241: Nearby Galaxies under a New Light with Roman (scheduled) †Seminar, American Museum of Natural History †Colloquium, George Mason University Seminar, STScI/JHU HotSci Talk Series Talk, N-Body Shop Workshop/Center for Computational Astrophysics Tutorial (powderday), N-Body Shop Workshop/Center for Computational Astrophysics †Seminar, University of California, Riverside †Seminar, The Center for Astrophysics Harvard & Smithsonian Talk, N-Body Shop Excellence Conference Seminar, Johns Hopkins University Talk, Galaxy Formation & Evolution in the Era of the Nancy Grace Roman Space Tele		
†Seminar, Princeton University Talk, 235 th Meeting of the American Astronomical Society †Seminar, Vanderbilt University †Seminar, STScI †Seminar, The Ohio State University CCAPP †Seminar, Yale University Talk, Small Galaxies, Cosmic Questions †Seminar, Max Planck Institute for Astrophysics Talk, 15 th Annual Potsdam Thinkshop Talk, New York Area Computational Astrophysics Meeting OPEN-SOURCE PROJECTS CONTRIBUTED TO		2020 2020 2019 2019 2019 2019 2019 2018 2018 2017
tangos yt	022-Pr 021-Pr 020-Pr	esent

Powderday 2020-Present

PUBLICATIONS View my papers on ADS

Primary Refereed Publications

- What's in a Name? Quantifying the Interplay between Definition, Orientation and Shape of UDGs using the ROMULUS Simulations
 Van Nest, J.D., Munshi, F., Wright, A.C., Tremmel, M., Brooks, A.M., Nagai, D. & Quinn, T., 2022, ApJ, 926(1):92.
- 4. The Formation of Isolated Ultra-Diffuse Galaxies in ROMULUS25 Wright, A. C., Tremmel, M., Brooks, A. M., Munshi, F., Nagai, D., Sharma, R. S., & Quinn, T. R., 2021, MNRAS, 502(4):5370.
- 3. The Formation of Ultra-Diffuse Galaxies in the ROMULUSC Galaxy Cluster Simulation Tremmel, M., Wright, A. C., Brooks, A. M., Munshi, F., Nagai, D., & Quinn, T. R., 2020, MNRAS, 497(3):2786.
- Reignition of Star Formation in Dwarf Galaxies
 Wright, A. C., Brooks, A. M., Weisz, D. R., & Christensen, C. R., 2019, MNRAS, 482(1):1176.
- 1. A New Diagnostic of Magnetic Field Strengths in Radiatively Cooled Shocks Hartigan, P. & Wright, A., 2015, ApJ, 811(1):12.

OTHER REFEREED PUBLICATIONS

- FOGGIE VI: CGM Supported in Emergent, Non-Hydrostatic Equilibrium
 Lochhaas, C., Tumlinson, J., Peeples, M. S., O'Shea, B. W., Werk, J. K., Simons, R. C.,
 Juno, J., Kopenhafer, C. E., Augustin, R., Wright, A. C., Acharyya, A., & Smith, B. D.,
 2022, submitted to ApJ
- Star Formation Histories from SEDs and CMDs Agree: Evidence for Synchronized Star Formation in Local Volume Dwarf Galaxies over the Past 3 Gyr
 Olsen, C., Gawiser, E., Iyer, K., McQuinn, K.B.W., Johnson, B.D., Telford, G., Wright, A.C., Broussard, A., & Kurczynski, P., 2021, ApJ, 913(1):45.
- 3. An Excess of Globular Clusters in UDGs Formed Through Tidal Heating Carleton, T., Guo, Y., Munshi, F., Tremmel, M., & Wright, A., 2021, MNRAS, 502(1):398.
- 2. Black Hole Growth and Feedback in Isolated ROMULUS25 Dwarf Galaxies Sharma, R., Brooks, A., Somerville, R. S., Tremmel, M., Bellovary, J., Wright, A., & Quinn, T. R., 2020, ApJ, 897(1):103.
- Simulating Radiative Magnetohydrodynamical Flows with ASTROBEAR: Implementation and Applications of Non-Equilibrium Cooling Hansen, E., Hartigan, P., Adams, A., Wright, A., & Raymond, J. C., 2018, MNRAS, 481(3):3098.

2. Snowmass2021 Cosmic Frontier White Paper: Cosmological Simulations for Dark Matter Physics

Banerjee, A., Boddy, K.K., Cyr-Racine, F., Erickcek, A.L., Gilman, D., Gluscevic, V., Kim, S., Lehmann, B.V., Mao, Y., Mocz, P., Munshi, F., Nadler, E.O., Necib, L., Parikh, A., Peter, A.H.G., Sales, L., Vogelsberger, M., & Wright, A.C., 2022, Snowmass2021 Cosmic Frontier White Paper

1. Ultra-Diffuse Galaxies on the Run

Wright, A.C., 2021, Nature Astronomy News & Views, 5:1208.