

ANNA C. WRIGHT

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Johns Hopkins University

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RESEARCH INTERESTS

dwarf galaxies, low surface brightness galaxies, stellar halos, galaxy mergers, cosmological simulations

EDUCATION

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|---|-----------------------------|
| Ph.D. in Physics & Astronomy <i>Rutgers, the State University of New Jersey</i> | Piscataway, NJ 2014–2020 |
| M.Sc. in Physics & Astronomy <i>Rutgers, the State University of New Jersey</i> | Piscataway, NJ 2014–2019 |
| B.Sc. in Astrophysics <i>Rice University</i> | Houston, TX 2010–2014 |

EXPERIENCE

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| Assistant Research Scientist <i>Johns Hopkins University</i> | Baltimore, MD 2020–Present |
| Graduate Research Assistant <i>Rutgers, the State University of New Jersey</i> | Piscataway, NJ 2014–2020 |
| Undergraduate Research Assistant <i>Rice University</i> | Houston, TX 2012–2014 |

GRANTS & AWARDS

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| Rutgers, <i>Robert A. Schommer Prize</i> , \$500 | 2019 |
| AAS, <i>International Travel Grant</i> , \$1,500 | 2018 |
| ACM & Intel, <i>ACM SigHPC Computational & Data Science Fellowship</i> , \$60,000 | 2016–2020 |
| Rutgers, <i>Noemie Koller Endowed Scholarship</i> , \$7,000 | 2015 |
| NSF, <i>Graduate Research Fellowships Program Honorable Mention</i> | 2015 |
| Rutgers, <i>Graduate Assistance in Areas of National Need Fellowship</i> , \$23,000 | 2014–2015 |
| Rice, <i>Alexander J. & Lorraine H. Dessler Award in Space Physics</i> , \$1,000 | 2014 |
| Rice, Department of Physics & Astronomy Summer Research Fellowship, \$4,500 | 2013 |
| Rice, Rice Space Institute Prize, \$200 | 2013 |
| Rice, Rice University Trustee Distinguished Scholarship, \$83,000 | 2010–2014 |

ADVISING & MENTORING

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| Co-mentor, <i>Nami Nishimura (STScI Space Astronomy Summer Program Student)</i> | 2021 |
| Near peer mentor, <i>Lana Eid (Rutgers University Graduate Student)</i> | 2019–Present |

SERVICE

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| Committee Member, <i>N-Body Shop Code of Conduct Committee</i> | 2021 |
| Application Reviewer, <i>ACM SigHPC Computational & Data Science Fellowship</i> | 2021 |
| Application Reviewer, <i>STScI Space Astronomy Summer Program</i> | 2021 |

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| Panelist, <i>What Life is Like in Graduate School (Rutgers Summer REU Program)</i> | 2017 |
| Time Allocation Committee, <i>SALT 2017-1 Rutgers TAC</i> | 2017 |
| Committee Member, <i>Rutgers Physics & Astronomy Graduate Student Life Committee</i> | 2016–2017 |
| Panelist, <i>Succeeding in HPC: My Journey (Supercomputing 2016)</i> | 2016 |
| Student Organizer, <i>Rutgers Physics & Astronomy Graduate Student Recruitment Committee</i> | 2016 |
| Treasurer, <i>Rutgers Physics & Astronomy Graduate Student Organization</i> | 2015–2016 |
| Student Organizer, <i>APS CUWiP at Rutgers</i> | 2015 |

TEACHING & OUTREACH

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|---|------------------|
| Lab Instructor, <i>Observational Radio Astronomy (Rutgers)</i> | 2019, 2020 |
| Coordinator, <i>Rutgers Traveling Science Show at Camden Street Elementary School</i> | 2018–2019 |
| Guest Speaker, <i>Redshaw Elementary School</i> | 2018 |
| Speaker, <i>Friends of Rutgers Astronomy</i> | 2017 |
| Teaching Assistant, <i>Extended Analytical Physics I/II (Rutgers)</i> | 2015–2016 |
| Presenter, <i>Rutgers Traveling Science Show at Camden Street Elementary School</i> | 2015–2019 |
| Guest Speaker, <i>Rutgers Young Scholars Program in Discrete Mathematics</i> | 2015, 2016, 2019 |

TALKS (†INVITED)

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| †Seminar, <i>University of California, Riverside (scheduled)</i> | 2022 |
| †Seminar, <i>The Center for Astrophysics Harvard & Smithsonian</i> | 2021 |
| Talk, <i>N-Body Shop Excellence Conference</i> | 2021 |
| Seminar, <i>Johns Hopkins University</i> | 2020 |
| Talk, <i>Galaxy Formation & Evolution in the Era of the Nancy Grace Roman Space Telescope</i> | 2020 |
| †Seminar, <i>Princeton University</i> | 2020 |
| Talk, <i>235th Meeting of the American Astronomical Society</i> | 2020 |
| †Seminar, <i>Vanderbilt University</i> | 2019 |
| †Seminar, <i>STScI</i> | 2019 |
| †Seminar, <i>The Ohio State University CCAPP</i> | 2019 |
| †Seminar, <i>Yale University</i> | 2019 |
| Talk, <i>Small Galaxies, Cosmic Questions</i> | 2019 |
| †Seminar, <i>Max Planck Institute for Astrophysics</i> | 2018 |
| Talk, <i>15th Annual Potsdam Thinkshop</i> | 2018 |
| Talk, <i>New York Area Computational Astrophysics Meeting</i> | 2017 |

PUBLICATIONS
View my papers on [ADS](#)

PRIMARY REFEREED PUBLICATIONS

5. *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., 2021, accepted to *ApJ*.
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.
2. *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

4. *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.
1. *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.

UNREFEREED PUBLICATIONS

1. *Ultra-Diffuse Galaxies on the Run*
Wright, A.C., 2021, *Nature Astronomy News & Views*, 5:1208.