Amy S. Steele

University of Maryland, Department of Astronomy, College Park, MD 20742-2421

EDUCATION

Present	Ph.D. Candidate, Astronomy – University of Maryland
2016	M.Sc., Astronomy – University of Maryland
2014	M.A., Astronomy – Wesleyan University
2008	B.A., Astronomy & Mathematics – Williams College

AWARDS AND GRANTS

2018 – Gregor and Donat Wentzel Scholarship - Awarded to help recruit and retain outstanding students
2017 – Graduate Student Summer Research Fellowship
2017 – Social Science Research Council Predoctoral Research Development grants (2) – total $5000
2016 – Philip E. Angerhofer Outstanding Teaching Assistant Award - Awarded each fall to a student who worked as a teaching assistant during the preceding year

RESEARCH EXPERIENCE

2016 – present: Circumstellar material on and off the main sequence. Advisor: John Debes, STScI
2014 – 2016: The debris disk around HD 181327. Advisor: Aki Roberge, NASA GSFC
2012 – 2014: Resolved debris disks around solar-type stars. Advisor: Meredith Hughes, Wesleyan University

WORK EXPERIENCE

2016 – 2018: NASA Headquarters Intern, Washington, D.C.
2009 – 2012: Astronomy Lab Coordinator, Arlington, TX

- Designed and taught labs
- Trained and supervised undergraduate lab assistants
- Public outreach and participation in professional activities

OBSERVING PROPOSALS (PRINCIPAL INVESTIGATOR)

2019: (1) Transits of WD1145+017. DCT Telescope, AZ, 9 nights
(2) Tracking the circumstellar gas of disintegrating exo-asteroids, Keck Telescope, HI
2017: Circumstellar Material after the Main Sequence. Submillimeter Array, HI
2017: Thermal emission around red giants. Submillimeter Array, HI
2017: Transits of WD1145+017. Perkins 72", Lowell Observatory, AZ, 9 nights

PUBLICATIONS

- **Steele, Amy**, Hughes, A. Meredith, Carpenter, John, et al. (2016) "Resolved Millimeter-Wavelength Observations of Debris Disks around Solar-Type Stars," ApJ, 816, 27
- Marino, S., Matrà, L., Stark, C. Wyatt, M. C., Casassus, S., Kennedy, G.,Rodriguez, D., Zuckerman, B., Perez, S., Dent, W. R. F., Kuchner, M., Hughes, A. M., Schneider, G., **Steele, A.**, Roberge, A., Donaldson, J., Nesvold, E. (2016) "Exocometary gas in the HD 181327 debris ring," MNRS, 460, 2933
- MacGregor, Meredith A.; Wilner, David J.; Chandler, Claire; Ricci, Luca; Maddison, Sarah T.; Cranmer, Steven R.; Andrews, Sean M.; Hughes, A. Meredith; **Steele, Amy** (2016) "Constraints on Planetesimal Collision Models in Debris Disks" ApJ, 823, 2

POSTERS

- Steele, Amy (2019) "Modeling circumstellar gas around white dwarfs," American Astronomical Society, AAS Meeting #233, id. 163.09
- Steele, Amy (2018) "GRAD-MAP: A Joint Physics and Astronomy Diversity Initiative at the University of Maryland, " American Astronomical Society, AAS Meeting #231, id. 359.01
- Steele, Amy (2018) "A sample of potential disk hosting first ascent red giants," American Astronomical Society, AAS Meeting #231, id. 147.04
- Steele, Amy (2017) "On the Detection and Characterization of Polluted White Dwarfs" American Astronomical Society, AAS Meeting #230, id.217.07
- Steele, Amy (2017) "Circumstellar Material on and off the Main Sequence," American Astronomical Society, AAS Meeting #230, id.210.01
- Steele, Amy (2016) "Resolved Millimeter Observations of the HD 181327 Debris Disk," American Astronomical Society, AAS Meeting #227, id.343.11**[Chambliss Award Honorable mention]**
- Steele, Amy, Hughes, A. M. (2014) "Resolved Millimeter-Wavelength Observations of Debris Disks around Sun-like Stars," American Astronomical Society, AAS Meeting #223, id.350.24

INVITED TALKS

2019: (1) Astronomy Seminar, Carnegie DTM, Scheduled
(2) Colloquium Talk, Williams College, Scheduled
2018: American Astronomical Society Education and Public Outreach Speaker
2017: (1) Inner Solar Systems, American Astronomical Society Panel
(2) STScI's Youth for Astronomy & Engineering Program "Family Night" Speaker
2016: Astronomy Seminar at Carnegie DTM
2015: CRESST Retreat
2014: Lunch Series at the Harvard Center for Astrophysics

PANELS

- NASA proposal peer reviews (5), Executive Secretary, 2015 (2), 2016, 2017, 2018:
  Executive Secretary: an early-career scientist, usually a post-doctoral researcher or senior grad student, chosen to serve on the annual proposal-review panel.
- APS Conference for Undergraduate Women in Physics, 2016
  A three-day regional conference for undergraduate physics majors.
- Clare Booth Luce Scholars Panel, 2015:
  In her bequest establishing this program, Clare Booth Luce sought "to encourage women to enter, study, graduate, and teach" in science, mathematics and engineering.

SERVICE

2017 – Present: **GRAD-MAP Team Lead**
GRAD-MAP, or Graduate Resource Advancing Diversity with Maryland Astronomy and Physics, is a graduate student led and run diversity initiative. Our goal is to increase the representation of underrepresented minority students in the astronomy and physics departments at UMCP.