A. Meredith Hughes

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Education

PhD **Harvard University**, Astronomy — Cambridge, MA, USA, 2007 – 2010
- Thesis title: *Circumstellar Disk Structure through Resolved Submillimeter Observations*
- Advisor: Dr. David J. Wilner

MA **Harvard University**, Astronomy — Cambridge, MA, USA, 2005 - 2007

BS **Yale University**, Astronomy and Physics (with distinction) — New Haven, CT, USA, 2001 - 2005
- Summa cum laude
- Phi Beta Kappa first election (top 1% of junior class)

Experience

Wesleyan University, Astronomy Department — Middletown, CT, USA
- Chair 2023-present
- Associate Professor 2019-present
- Assistant Professor 2013-2019

UC Berkeley, Department of Astronomy, Miller Fellow, 2010-2012 — Berkeley, CA, USA

Harvard University, Astronomy, Graduate Student Researcher, 2005-2010 — Cambridge, MA, USA

Research Interests

Planet formation. Circumstellar disk structure and dynamics: gas and dust.
Disk evolution: viscous transport and clearing processes.
Radio astronomy, aperture synthesis techniques.

Honors and Awards

Knights of Distinction, Providence Country Day, notable alumni — 2024
Binswanger Prize for Teaching Excellence, Wesleyan University — 2023
Cottrell Scholar, Research Corporation for Science Advancement — 2018
Bok Prize, Harvard astronomy (research excellence under age 35) — 2015
Miller Fellowship, UC Berkeley — 2010-2012
Fireman Fellowship, Harvard (outstanding PhD thesis) — 2010
Graduate Research Fellowship, National Science Foundation — 2007-2010
Certificate of Distinction in Teaching, Bok Center, Harvard — 2009
George Beckwith Prize, Yale astronomy — 2005

Teaching & Advising

Overview:

- Supervisor for 9 MA theses and 8 BA theses at Wesleyan University
- Mentees earned 5 NSF GRFPs, 2 Goldwater fellowships, 1 Fulbright, 1 Chambliss graduate award
- Supported two postdoctoral scholars for a total of 8 years (9 years' funding secured), plus one-year postbac
- Additionally supervised BA and MA research projects for 32 non-thesis students
- Taught 9 unique courses, including two new to Wesleyan curriculum (ASTR240, CIS321)

Postdoctoral Collaborators

Brianna Zawadzki 2023-present
Kevin Flaherty → Williams College Lecturer and Observatory Supervisor 2013-2018

Postbaccalaureate Collaborators

Joshua Grajales 2025-present

MA theses supervised

Elias Mansell → PhD student at UC Berkeley (Classics) 2025

- Awarded NASA CTSG Graduate Research Fellowship ($10k) and student travel grant ($1.5k) 2024
- Presented talk at Jan 2025 AAS meeting
- Second author on publication based on thesis research (Han, Mansell et al.), coauthor on nine other ARKS papers

Cat Sarosi → PhD student at University of Exeter 2025

- Awarded NASA CTSG student travel grant ($1.5k) 2024
- Presented poster at Jan 2025 AAS meeting

Megan Delamer → PhD student at Penn State University 2021

- Presented virtual poster at Jan 2021 AAS meeting

Jonas Powell → Systems & Technology Research, Woburn, MA 2019

- Three NASA CTSG awards totaling $11k
- Presented talk at Jan 2018 AAS meeting

Jessica Klusmeyer → WIYN queue observer 2019

- Earned graduate Chambliss award for AAS poster presentation
- First author on a paper based on thesis research (Klusmeyer et al. 2021)

Evan Carter → PhD student at UT San Antonio 2018

- Awarded NASA CTSG Travel Scholarship ($1k)
- Coauthor on two published papers (Daley et al. 2019, Vizgan et al. 2021)

Zachary Lambros → Raytheon 2018

- Awarded NASA CTSG Student Travel Scholarship
- Presented thesis research at AAS meeting
- Coauthor on one published paper (Daley et al. 2019)

Sam Factor → PhD student at UT Austin 2015

- Awarded NASA CTSG Student Travel Scholarship
- Presented thesis research at AAS meeting
- First author paper based on thesis research (Factor et al. 2017)

Amy Steele → PhD student at U Maryland 2014

- Presented thesis research at AAS meeting
- First author paper based on thesis research (Steele et al. 2016)
- Recipient of Littell Prize

BA Theses Supervised

Jamar Kittling → PhD student at Stanford University 2024

- Awarded NASA CTSG Undergraduate Scholarship, co-recipient of Littell Prize
- Coauthor on Fehr et al. (2022), Su et al. (2023), Worthen et al. (2025), acknowledged in PPVII article (Manara et al. 2023)
- Presented talk with Erin Readling at 2021 KNAC symposium

Joshua Grajales → Columbia 3-2 Engineering Program 2023

- Awarded NASA CTSG Undergraduate Scholarship
- Presented poster with Eric Rumsfeld at 2021 KNAC symposium and with Caroline Kilian at 2026 winter AAS meeting

Anna Fehr → PhD student at Harvard University 2023

- Awarded NASA CTSG Undergraduate Research & Student Travel Fellowships
- Presented virtual poster at Jan 2021 AAS meeting, in-person poster at Summer 2022 AAS meeting
- Awarded 2022 Goldwater Scholarship, 2023 NSF GRFP, co-recipient of 2023 Littell Prize
- First author on (Fehr et al. 2022); coauthor on Nederlander et al. (2021); 2nd author on Zawadzki et al. (in press), plus 4 other papers in press for ARKS collaboration

Eric Rumsfeld → PhD student at UC Irvine 2023

- Awarded NASA CTSG Undergraduate Research Fellowship
- Presented poster with Josh Grajales at 2021 KNAC Symposium

Hannah Lewis (primary thesis supervisor Julia Plummer) → PhD student at UNC 2023

- Awarded NASA CTSG Undergraduate Research & Student Travel fellowships
- Presented virtual poster at Jan 2021 AAS meeting, in-person poster at Summer 2022 AAS meeting
- Awarded 2023 NSF GRFP (declined)

David Vizgan → Fulbright Scholar (Denmark), PhD Student at UIUC 2021

- Awarded Chambliss medal for REU project
- 2021 Fulbright Scholar
- Awarded 2023 NSF GRFP
- First author on one published paper (Vizgan et al. 2022)

Cail Daley → PhD student at UIUC 2018

- Awarded NASA CTSG Undergraduate Research & Student Travel Fellowships
- Presented poster at AAS meeting
- First author on one published paper (Daley et al. 2019)

Jesse Lieman-Sifry → Arterys, Inc., San Francisco, CA 2015

- Awarded NASA CTSG Directed Campus Scholarship
- Co-recipient of 2015 Littell Prize
- Presented thesis research at AAS meeting
- First author on one published paper (Lieman-Sifry et al. 2016), 2nd author on Hughes et al. (2017).

KNAC REU Projects Supervised

Saad Waheed (Williams College) → PhD Student at U. Chicago 2022

Diego Garcia (Middlebury College) → McMaster Carr 2018

- Presented a poster at 2019 AAS meeting

Sanaea Rose (Wellesley College) → PhD Student at U. Michigan 2015
- Coauthor on Flaherty et al. (2017)

Frankie Encalada (Broward College, UFL) → PhD Student at UIUC 2013
- Represented KNAC at CUR REU student symposium
- Awarded 2014 Goldwater Scholarship

Will Harney (Union College) → Industry in Boston, MA 2013
- Coauthor on Flaherty et al. (2016)

Additional Research supervision, Wesleyan University

MA research: Jillian Epstein ’27 2025-present
MA research: Theo Chawla ’26 2025-present
BA research: Leo Zhang ’28 2025-present
BA research: Jamie Weiss ’28 2025-present
BA research: Nate Weinstein ’28 2025-present
BA research: Caroline Kilian CCSU ’26 2024-present
- Presented talk at 2024 KNAC meeting
- Presented posters at 2025 KNAC meeting, APS regional meeting, 2026 winter AAS meeting

BA research: Cat Hou ’26 2024-present
- Coauthor on Han et al. and Zawadzki et al. (2026)

High School Scholar: Abby Quinby, Suffield Academy 2024-2025
BA research: Allan Cheruiyot ’27 2024-present
- Coauthor on Han et al. and Zawadzki et al. (in press)

BA research: Yamani Mpofu ’27 2024
- Coauthor on Han et al. and Zawadzki et al. (in press)

BA research: Abigail Falk ’26 2024
BA research: Aliya Nurmohamed ’26 2023-2024
- Coauthor on Han et al. and Zawadzki et al. (in press)

BA research: Junu Lee ’25 2023-2024
- Coauthor on Han et al. and Zawadzki et al. (in press)

BA research: Victoria Dozer ’24 2023-2024
BA research: Ivy Huang ’24 2023
- Awarded 2024 NSF GRFP

BA research: Carlos Ordoñez ’24 2022-2023
BA and MA research: Rachel Marino BA ’20 2018-2023
- Awarded NASA CTSG Community College Transfer Scholarship
- Presented psoter at 2020 AAS meeting
- Coauthor on Fehr et al. (2022)

BA research: Ava Nederlander ’22 2019-2021
- Awarded NASA CTSG Undergraduate Scholarship
- Presented virtual poster at 2021 AAS meeting
- Awarded 2023 NSF GRFP
- First author on Nederlander et al. (2021)

BA research: Matan Ackelsberg ’24 2021
- Coauthor on Fehr et al. (2022)

Erin Readling 2021
- Acknowledged in PPVII article (Manara et al. 2023)

BA research: Kimberly Paragas '22 2020
BA research: Allison Quintana '19 2018
BA research: Julia Zachary '17 2015

- Coauthor on Flaherty et al. 2016

MA research: Jesse Shanahan 2015
MA research: Rebecca Nakaba 2013-2014
UC Berkeley BA research (in collaboration with Gaspard Duchêne): Angelo Ricarte and Noel Moldvai 2012-2013

- Authors on Ricarte et al. (2013)

Lead Instructor, Wesleyan University
ASTR105: Exploring the Cosmos (2016, 2018, 2021, 2022)
ASTR155: Introductory Astronomy (2013, 2015, 2017, 2019, 2020, 2021, 2023, 2024)
ASTR210: Intro to Scientific Computing in Astronomy (2025)
ASTR211: Observational Astronomy (2014, 2015, 2019, 2024)
ASTR240: Radio Astronomy (2013, 2014, 2018, 2021, 2022, 2025)
ASTR430: Astronomical Pedagogy Seminar (2013-2017, 2019-2022, 2024-2025)
ASTR431: Research Discussion in Astronomy (2014, 2015)
ASTR555: Planetary Science Seminar (2014, 2018, 2022, 2025)
CIS321: Special Topics in Integrative Sciences (co-taught with Ishita Mukerji), 2018-2020

Teaching Fellow, Harvard University
Science A-36: Observing the Sun and Stars (faculty: Grindlay & Kaltenegger) 2008
Astronomy 218: Radio Astronomy (faculty: Moran) 2007
Astronomy 2: Celestial Navigation (faculty: Sadler) 2006

Teaching Assistant, Summer Science Program, Ojai, CA
Guided gifted HS students in astronomical data collection, reduction, and analysis; small-group tutoring in physics, math, astronomy, and computer science; conducted astrograph maintenance; oversaw aspects of residential life. 2005

Physics and Astronomy Tutor, Yale College Dean's Office
Tutored Yale undergraduates one-on-one in introductory astronomy and physics (1-3 per semester) 2003-2005

External Funding

Total external support as PI: $>$$2.0M
Additional mentored awards to students under my supervision: $73k

Gas in Debris Disks as a Tracer of Stellar Astrophysics
PI of RCSA Cottrell SEED (Singular Exceptional Endeavors of Discovery) Award, $60k, 2025-2027

Collaborative Research: RUI: New and Improved Microwave Continuum Measurements of Solids
Wesleyan PI of collaborative NSF grant with S. Andrews (CfA), $305k, 2025-2028

NASA CT Space Grant, Undergraduate Research Fellowship
Advisor to PI Caroline Kilian (CCSU), $6k, 2025-26

NASA CT Space Grant, Graduate Research Fellowship
Advisor to PI Elias Mansell, $10k, 2024-25

NASA CT Space Grant, Student Travel Grant
Advisor to PIs Elias Mansell, Cat Sarosi, $3k, 2024-25

RUI: Vertical Structure of Gas and Dust in Debris Disks
PI of NSF AST grant, $337k, 2023-2026

Bringing Wesleyan Astronomy Students to Green Bank Observatory

PI of NASA CT Space Grant Faculty Travel Grant, $2k, 2024-2025

Bringing Solar Observing to the Middletown CT Community through a Partnership between Wesleyan University and Russell Library
PI of Jay M. Pasachoff Solar Eclipse Mini-Grant award, $2.5k, 2024

Brinson Prize Fellow in Astronomy at Wesleyan
PI of Brinson foundation grant, $345k, 2022-2026

NASA CT Space Grant, Undergraduate Research Fellowship
Advisor to PIs Anna Fehr, Hannah Lewis, and Eric Rumsfeld, $5k each ($15k total), 2021

NASA CT Space Grant, Undergraduate Scholarship
Advisor to PIs Ava Nederlander and Josh Grajales, $5k each ($10k total), 2021

HD 106906 Debris Disk Morphology and the Origin of an External Perturber
PI of ALMA project 2018.1.01222.S, NRAO Student Observing Support, $35k, 2020-2023

Using Debris Disks to Weigh Planetary Systems
PI of Cottrell Scholar Award, Research Corporation for Science Advancement, $100k, 2018-2023

NASA CT Space Grant, Community College Transfer Scholarship
Advisor to PI Rachel Marino, $5k, 2018-19

Measuring the Chemical Composition of Molecular Gas in the Debris Disk around 49 Ceti
PI of ALMA project 2017.1.00941.S, NRAO Student Observing Support, $35k, 2018-9

Dust and Gas in Debris Disks Reveal the Origins of Planetary Systems
PI of NSF AST grant, $529k, 2014-2018

NASA CT Space Grant, undergraduate Research Fellowship, Undergraduate Travel Fellowship, Directed Campus Scholarship
Advisor to PI Jonas Powell, $11k total, 2017-18

NASA CT Space Grant, Student Travel Grant
Advisor to PIs Cail Daley and Zachary Lambros, $1k each ($2k total), 2017-18

Who Stirs the Pot? Resolving the Vertical Thickness of Debris Disks
PI of ALMA project 2016.1.00878.S, NRAO Student Observing Support, $35k, 2017-8

Measuring Turbulence in Protoplanetary Disks
PI of NASA Origins of Solar Systems Grant, $266k, 2013-2017

Bringing NASA Scientist Aki Roberge to Wesleyan
PI of NASA CT Space Grant Faculty Travel Grant, $1k, 2015-16

Hosting the Conference for Undergraduate Women in Physics (CUWiP) at Wesleyan
PI of NASA CT Space Grant Faculty STEM Education Programming grant, $4.7k, 2015-6

NASA CT Space Grant, Undergraduate Research Fellowship
Advisor to PI Cail Daley, $5k, 2015-16

NASA CT Space Grant, Directed Campus Scholarship
Advisor to PI Jesse Lieman-Sifry, $5k, 2014-15

NASA CT Space Grant, Student Travel Grant
Advisor to PI Sam Factor, $1k, 2014-15

Building a CMB Telescope at Wesleyan
PI of NASA CT Space Grant Faculty Curriculum Development Grant, $3.7k, 2014

Who Stirs the Pot? Resolving the Vertical Thickness of Debris Disks
PI of ALMA project 2012.1.00198-S, NRAO Student Observing Support, $29K 2013-2014

Seminars and Colloquia (2019-present)

Astronomy colloquium, Caltech, Pasadena, CA	2025
Astronomy colloquium, University of Iowa, Ames, IA	2025
Astronomy Seminar, Colgate University, Hamilton, NY	2025
Astronomy colloquium, University of Wisconsin-Madison, Madison, WI	2023
Farnsworth Lecture in Physics, Ripon College, Ripon, WI	2023
Astronomy seminar, Trinity College Dublin, Dublin, Ireland	2023
Astrophysical colloquium, University of Jena (remote)	2022
Astronomy colloquium, University of Maryland (remote)	2021
Physical Science colloquium, St. Anselm College (remote)	2021
Submillimeter Array colloquium, Harvard-Smithsonian CfA (remote)	2021
Astronomy colloquium, Princeton University (remote)	2020
Astronomy colloquium, ETH Zurich (remote)	2020
Astronomy colloquium, CU Boulder, Boulder, CO	2020
Astronomy colloquium, Yale University, New Haven, CT	2020
Astronomy colloquium, UConn, Storrs, CT	2019

Conference Contributions (2019-present)

Contributed talk: *Dust and Gas in Debris Disks with ALMA: Overview of ARKS First Results* CT Exoplanet Picnic	Middletown, CT, USA 2025
Invited talk: *Gas and Dust in Debris Disks: What's Happening in Planetary Systems from Myr to Gyr?* Gordon Conference on Origins of Solar Systems	South Hadley, MA, USA 2025
Invited plenary lecture: *The Missing Link: Planet Formation from Millions to Billions of Years* American Astronomical Society 246th meeting	Anchorage, AK, USA 2025
Contributed talk: *Masters in Astronomy at Wesleyan University: A Path to the PhD for Nontraditional Students* American Astronomical Society 245th Meeting	National Harbor, MD, USA 2025
Contributed talk: *ARKS I: First Results from the ALMA Survey to Resolve exoKuiper belt Substructure* American Astronomical Society 245th Meeting	National Harbor, MD, USA 2025
Contributed talk: *Integrating Pedagogy, Outreach, and Ethics: Astronomical Pedagogy Seminar at Wesleyan University* AAS 245th Meeting	National Harbor, MD, USA 2025
Contributed poster: *Debris Disk Potpourri: Vertical Structure, Gas Composition, and Stellar Masses* Northeast Star and Planet Formation Meeting	Westford, MA, USA 2024
Contributed talk: *Dynamical Masses of Gas-Bearing Debris Disk Host Stars* Dust Devils: Debris Disks in the Sonoran Desert	Tucson, AZ, USA 2024
Contributed Talk: *Planetary Dynamics in the HD 106906 System* Debris Disks at Home and Abroad	Jena, Germany 2022
Invited discussion leader w/Luca Matrà: *Discussion: Gas Disk Composition and Evolution* Debris Disks at Home and Abroad	Jena, Germany 2022
Invited talk: *Gas and Dust in Debris Disks* Meeting in a meeting: Multifaceted Views of Planet Formation, American Astronomical Society 240th meeting	Pasadena, CA, USA 2022
Invited panelist: *Astronomy Education at Wesleyan: Activities and Challenges* NEROC Annual Radio Science Symposium	Fully Remote 2022
Contributed talk: *Characterizing the Collisional Cascade in the AU Mic Debris Disk* Annual Meeting of the EAS – Planetesimal Belt Symposium	Fully remote 2021
Invited review talk: *Debris Disks in the ALMA Era* 5 Years After HL Tau	Fully Remote 2020
Invited keynote talk: *Using Debris Disks to Trace the Dynamics of Planetary Systems* Boston Area Exoplanets Science Meeting	Fully Remote 2020

Contributed talk: *Using Debris Disks to Trace the Dynamics of Planetary Systems* — Storrs, CT, USA
Northeast Star and Planet Formation Meeting — 2020

Solicited Talk: *The ALMA View of GPI Sco-Cen Targets* — Remote Participation
GPI Workshop, STScI — 2019

Discussion leader: *Gas Disk Composition and Evolution* — Budapest, Hungary
Debris Disk Workshop — 2019

Contributed poster: *Using Debris Disks as a Dynamical Probe of Planetary Systems* — South Hadley, MA, USA
Gordon Research Conference: Origins of Planetary Systems — 2019

Contributed talk: *Using Debris Disks to Weigh Planetary Systems* — Victoria, BC, Canada
New Horizons in Planetary Systems — 2019

Academic Service

National/International level

Referee, ApJ, ApJL, A&A, PASJ, Nature Astronomy (1-3 papers per year) — 2010-present
ALMA Proposal Review Committee — 2024
Panel reviews (NSF, NASA) — 2013, 2014, 2017, 2023, 2024
North American rep to ALMA Science Advisory Committee — 2021-2023
ALMA North American Science Advisory Committee — 2021-2023
NRAO Users Committee — 2021-2023
AAS Code of Ethics Committee inaugural member — 2017-2023

- Committee Chair 2019-2020; Interim chair 2025

AAS Committee On the Status of Women in Astronomy member — 2012-2015

- Liaison to Working Group on LGBTIQA+ Equality (now SGMA)

Admission and Outreach Committees, Summer Science Program — 2008-2014
TAC member, CARMA (2012a, 2012b), HST (Cycle 20), JWST (Cycle 2) — 2012-2023
External Committee Member for PhD thesis defense

- Fallon Konow, Georgia State, 2026 (anticipated)
- Charles Law, Harvard, 2024
- Anneliese Rilinger, Boston University, 2022
- Amy Steele, U. Maryland, 2020
- Katherine Rosenfeld, Harvard, 2015

Scientific Organizing Committee

- *Dust Devils: Debris Disks in the Sonoran Desert*, Tucson, AZ, 2023-24
- *ALMA at 10 years: Past, Present, and Future*, Santiago, Chile, 2022-23
- *Debris Disks at Home and Abroad*, Jena, Germany, 2021-22
- *New Horizons in Planetary Systems*, Victoria, BC, Canada, 2018-19, **SOC chair**
- *Extreme Solar Systems III*, Kona, HI, 2014-16
- *Inclusive Astronomy*, Nashville, TN, 2014-15
- *Bringing Fundamental Astrophysical Processes into Focus*, Greenbelt, MD, 2014
- *CARMA science Symposium*, Berkeley, CA, 2010-11 **SOC chair, LOC member**

Campus level

Faculty Advisor, Wesleyan Women in Science — 2014-present

- 2019 recipients of SALD award for Student Organization of the Year

Academic advisor, WesMaSS (underrepresented science students) — 2017-present
Faculty Mentor (2-4 junior faculty per year) — 2021-present
Review and Appeals Board — 2020, 2022-present
Commencement Marshal — 2025-present

Binswanger Prize Committee	2025-present
Allbritton Center Faculty Advisory Board	2014-2016, 2025-present
Assistant Commencement Marshal	2015, 2018, 2022, 2023, 2024
Panelist, CFCD "Meet Great Grant Writers"	2025
Panelist, CFCD "Making Department Culture Pleasant and Productive"	2025
CCI: Collaboration with Jane Alden on MUSC248: Music in Outer Space	2024
Panelist, New Advisor Training	2025
Meeting with Science Librarian Candidates	2024
Community-Engaged Learning Faculty Advisory Board	2023-2025
Honors Committee	2020-2021
Ad hoc committee on the evaluation of teaching	2019-2020
Sorting Hat (summer research coordinator) for KNAC	2019-2022
Organizer, KNAC Undergraduate Research Symposium	2016
Co-organizer (with C. Othon), Conference for Undergraduate Women in Physics	2014-2016

Department level

Chair	2023-present
Astronomy Graduate Admissions Committee	2013-present
Astronomy Graduate Qualifying Exam Committee	2013-present
Senior thesis and selected MA committees	2013-present
Astronomy Colloquium Organizer	Fa 2013-2017, 2020, 2025, Sp 2023, 2025
Hiring Committee	2020-2021
Sturm Lecture Organizer	2018

Public Outreach and Education

Public Talks and Programs (2019-present):

Space Night at Van Vleck Observatory, Middletown, CT	2015-present
Hot Chocolate and Stargazing with WesWIS, Middletown, CT	2013-present
Women in Science Panel, Independent Day School, Middlefield, CT	2025
Middlesex Institute for Lifelong Education, Middletown, CT	2024
Monthly Astronomy Speaker at the Ecotarium, Worcester, MA	2024
Organized Spanish-language program with MPS's English Language Learners	2024

- Program led by Carlos Ordoñez and Lisseth Gonzalez Quevedo

Guest on WNPR's Where We Live	2024
Westport Astronomical Society, Westport, CT	2024
All-School assembly, Westminster School, Simsbury, CT	2022
Are Stars for All Who Look Up? Panelist with Consonare Choral Community	2022
Wasch Center for Retired Faculty, Wesleyan University, Middletown, CT	2019
Kids' Night and Space Night Programs at VVO, Middletown, CT	2015-present

As part of NSF Broader Impacts (x2), redesigned Astronomical Pedagogy curriculum to prepare students to give public talks and remodeled outreach efforts at Van Vleck Observatory. Instituted a series of Space Nights (rain-or-shine public level presentation plus observing) and Kids' Nights (monthly kids' activities). Draws regular crowds averaging 1-3 dozen per event. Improved communication by starting a Facebook page and email list, gathering over 800 addresses, and sending out surveys to visitors to ask for feedback.

AAPT Workshop for New Physics and Astronomy Faculty, College Park, MD 2014

Interacted with science education researchers and expert teachers to explore new teaching techniques

CAE Tier I Teaching Workshop, Austin, TX 2012

Interacted with science education researchers and expert teachers to explore new teaching techniques

Path of Professorship Workshop, MIT 2012

Advised female grad students and postdocs about the process of applying for faculty jobs

Mentor, Society of Women in the Physical Sciences, UC Berkeley 2011-2012

Mentored female undergraduates and grad students in the physical sciences (2-3 per year)

Astronomy VIP (Volunteers in Parks), Bryce Canyon National Park 2010
Operated small telescopes for solar and night sky observing, discussed basic astronomy concepts with members of the public, oriented visitors to park resources, gave public presentations (hundreds of interactions per day)

Family Night Coordinator Harvard-Smithsonian Center for Astrophysics 2007-2008
Developed a series of monthly astronomy programs for children including interactive lectures, demonstrations, hands-on activities, and observing with small telescopes

Mentor, WISHR Mentoring Program, Harvard University 2005-2010
Mentored female Harvard undergraduates considering majors in the physical sciences (1-2 per year)

Volunteer Exhibit Hall Interpreter, Museum of Science, Boston, MA 2005-2010
Taught basic physical and biological concepts through interactive demonstrations with members of the public; subjects include scanning electron microscopes, ultrasound, infrared cameras, small telescopes, and live animals

Public Observatory Night Assistant, Harvard-Smithsonian CfA 2005-2010
Operated small telescopes and answered questions about astronomy for members of the public

Refereed Publications

Overview:

- 124 total refereed publications plus 1 under review
- 27 with first author Hughes or a student or postdoc working directly under my supervision
- Total citations: >11,000
- H-index: 51

Symbols: bold=me, underlined = students/postdocs directly under my supervision, * = before Wesleyan

UNDER REVIEW

Spatial Distribution of Warm Dust around the Vega-type Star HD 166191 after an Asteroid Collision — Submitted to A&A July 2025

L. Chen, A. Moor, K. Su, A. Matter, J. Varga, P. Abraham, A. Kospal, B. Lopez, F. Lykou, F. Cruz Saenz de Miera, J.-C. Augereau, J. P. Carter, W. Danchi, Th. Henning, K.-H. Hofmann, M. Hogerheijde, ***A. M. Hughes***, G. Kennedy, J. Kobus, E. Kokoulina, Z. Leinhardt, F. Millour, E. Pantin, R. Petrov, P. Priolet, D. Schertl, R. van Boekel, L. Watt, G. Weigelt, J. White, J. Woillez, S. Wolf

FORTHCOMING (accepted for publication)

124. Probing the era of giant collisions: millimeter observations of the HD 166191 system — ApJ, in press 2025

K. Worthen, C. H. Chen, ***A. M. Hughes***, B. C. Johnson, I. Rebollido, D. E. Garcia, J. Kittling, C. M. Lisse

123. The ALMA Survey to Resolve exoKuiper belt Substructures (ARKS). X. Interpreting the Peculiar Dust Rings around HD 131835 — A&A, in press 2025

M. R. Jankovic, N. Pawellek, J. Zander, T. Löhne, A. V. Krivov, J. Olofsson, A. Brennan, J. Milli, M. Bonduelle, M. C. Wyatt, A. Sefilian, T. Pearce, S. Mac Manamon, Y. Han, S. Marino, L. Matrà, A. Moor, M. Booth, E. Chiang, E. Mansell, P. Weber, ***A. M. Hughes***, D. J. Wilner, P. Luppe, B. Zawadzki, C. del Burgo, A. Kospal, S. Perez, J. M. Carpenter, Th. Henning

122. The ALMA survey to Resolve exoKuiper belt Substructures (ARKS). IX: Gas-driven origin for the continuum arc in the debris disc of HD121617 — A&A, in press 2025

P. Weber, S. Pérez, C. Baruteau, S. Marino, F. Castillo, M. R. Jankovic, T. Pearce, M. C. Wyatt, A. Sefilian, J. Olofsson, G. Cataldi, J. B. Lovell, C. del Burgo, ***A. M. Hughes***, S. Mac Manamon, A. Brennan, L. Matrà, J. Milli, B. Zawadzki, E. Chiang, M. A. MacGregor, D. J. Wilner, M. Bonduelle, J. M. Carpenter, Y. Han, Á., Kóspál, P. Luppe

121. The ALMA Survey to Resolve exoKuiper belt Substructures (ARKS). VIII. A Dust Arc and Non-Keplerian Gas Kinematics in HD 121617 — A&A, in press 2025

S. Marino, V. Gupta, P. Weber, T. Pearce, A. Brennan, S. Perez, S. Mac Manamon, L. Matrà, J. Milli, M. Booth, C. del Burgo, G. Cataldi, E. Chiang, Y. Han, Th. Henning, ***A. M. Hughes***, M. R. Jankovic, A. Kospal, J. B. Lovell, P. Luppe, E. Mansell, M. A. MacGregor, A. Moor, J. Olofsson, A. Sefilian, D. J. Wilner, M. C. Wyatt, B. Zawadzki

120. The ALMA Survey to Resolve exoKuiper belt Substructures (ARKS). VII. Optically Thick Gas with Broad CO Gaussian Local Line Profiles in the HD 121617 Disc — A&A, in press 2025

A. Brennan, L. Matrà, S. Mac Manamon, S. Marino, G. Cataldi, ***A. M. Hughes***, P. Weber, Y. Han, J. P. Marshall, B. Zawadzki, P. Luppe, A. Sefilian, A. Moor, M. A. MacGregor, J. B. Lovell, A. Kospal, M. Bonduelle, E. Mansell, M. C. Wyatt, T. Pearce, J. M. Carpenter, D. J. Wilner, C. del Burgo, Th. Henning, J. Milli, E. Chiang

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K. M. Flaherty, ***A. M. Hughes***, S. M. Andrews, C. Qi, D. J. Wilner, W. Harney, J. Zachary

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D. Wilner, S. M. Andrews, ***A. M. Hughes***

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Symbols: bold=me, underlined = students/postdocs directly under my supervision, * = before Wesleyan

4. Citation Ethics in Publishing — AAS News, June 2023
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3. The 2013 CSWA Demographics Survey: Portrait of a Generation of Women in Astronomy — STATUS, January 2014
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2. Physical and chemical structure of planet-forming disks probed by millimeter observations and modeling — PPVI, February 2014
A. Dutrey, D. Semenov, E. Chapillon, U. Gorti, S. Guilloteau, F. Hersant, M. Hogerheijde, ***A. M. Hughes***, G. Meeus, H. Nomura, V. Pietu, C. Qi, V. Wakelam

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