J. J. Hermes

Curriculum Vitae

Department of Astronomy, Boston University
725 Commonwealth Ave., Room 422A
Boston, MA 02215

jjhermes@bu.edu
(617) 353-1282
https://sites.bu.edu/buwd

Education

Ph.D., Astronomy, University of Texas at Austin, Austin, TX, USA — August 2013
"Gravitational Waves, Pulsations, and More: High-Speed Photometry of Low-Mass, He-Core White Dwarfs" (Advisors: Don Winget & Mike Montgomery)

M.S., Astronomy, University of Texas at Austin, Austin, TX, USA — August 2010
"A Search for Periodic Variations in Pulse Arrival Times in DA White Dwarfs"

B.S., Physics & Astronomy, University of Texas at Austin, Austin, TX, USA — May 2007

Primary Appointments

Assistant Professor of Astronomy, Boston University	2019–present
NASA Hubble Postdoctoral Fellow, University of North Carolina at Chapel Hill	2015–2018
ERC Postdoctoral Research Fellow, University of Warwick, UK	2013–2015
Reporter, The Chronicle of Higher Education, Washington, D.C.	2007–2008

Secondary Appointments

Visiting Scientist, Kavli Institute for Theoretical Physics, Santa Barbara, CA	2022
Affiliated Astronomer, The Maria Mitchell Association, Nantucket, MA	2020, 2021

Honors and Awards

Scialog Fellow, Research Corporation for the Advancement of Science	2019, 2024
NASA Hubble Fellow	2015–2018
65th Lindau Nobel Laureate Meeting, selected as participating young scientist	2015
David Benfield Memorial Fellowship in Astronomy, UT-Austin	2013
Fred T. Goetting, Jr. Memorial Endowed Presidential Fellowship, UT-Austin	2012

Undergraduate Teaching as Primary Instructor

AS 102: The Solar System (Spring 2019: 62 students; Spring 2022: 61 students)
Introductory undergraduate-level course for non-majors

AS 105: Alien Worlds (Fall 2019: 144 students; Fall 2020: 144 students; Fall 2021: 93 students; Fall 2025: 112 students)
Introductory undergraduate-level course for non-majors

AS 441: Observational Astronomy (Spring 2022: 19 students; Spring 2023: 12 students; Spring 2024: 19 students; Spring 2025: 15 students)
Advanced upper-division course with a large laboratory component for majors

AS 491/492: Directed Study in Astronomy (Fall 2019: 2 students; Spring 2020: 1 student)
Direct research mentorship course for upper-division majors

Graduate Teaching as Primary Instructor

AS 709: Observational Techniques (Fall 2023: 16 students)
Graduate observational course with a large laboratory component

AS 850/851: Astrophysics Seminar (Fall 2020: 8 students; Spring 2021: 20 students)
Graduate journal club and seminar course

Other Teaching

AS 901/902: Research in Astronomy
Directed research mentorship course for graduate students

AS 911/912: Directed Study in Astronomy
Directed research mentorship course for graduate students

Grants Awarded

Total grant funding to BU as PI (from 1/1/2019-4/1/2025): $1,605,745

NUV observations of transiting exoplanetary debris in a 10-hr orbit around a white dwarf
Space Telescope Science Institute, HST Guest Observer Program 17789, Cycle 32
PI: Guidry, Admin PI: Hermes, $58,675 to BU, 09/01/2025 - 08/31/2028
(PI is a graduate student in my group)

A legacy survey for evolved planetary systems within 100pc
Space Telescope Science Institute, HST Guest Observer Program 17698, Cycle 32
PI: Gänsicke, Admin PI: Hermes, $152,500 to BU, 09/01/2025 - 08/31/2028
(international collaborators cannot serve as PI on HST grants)

Ultrafast Monitoring of White Dwarfs in TESS Cycle 7
NASA, TESS Guest Investigator Program, Cycle 7
PI: Hermes, $70,000 to BU, 07/01/2025 - 06/28/2026

Missing Planets Around Massive White Dwarfs?
Future Investigators in NASA Earth and Space Science and Technology (FINESST) Fellowship
Fellowship for Lou Baya Ould Rouis, PI: Hermes, $150,000 to BU, 01/01/2025-12/31/2027
(graduate student prize fellowship)

A legacy survey for evolved planetary systems within 100pc
Space Telescope Science Institute, HST Guest Observer Program 17420, Cycle 31
PI: Gänsicke, Admin PI: Hermes, $53,694 to BU, 12/01/2023 - 11/30/2026

Illuminating the still-perilous fate of exoplanets and exo-asteroids that survive stellar evolution
NASA, Exoplanets Research Program 2022 (XRP22)
PI: Hermes, $383,681 to BU, 05/25/2023 - 05/24/2026

Ultra-High-Speed Observations of White Dwarfs in TESS Cycle 6
NASA, TESS Guest Investigator Program, Cycle 6
PI: Hermes, $70,000 to BU, 03/01/2024 - 02/28/2025

Characterization of Unforeseen Chromospheres in Isolated White Dwarfs
Space Telescope Science Institute, HST Guest Observer Program 16719, Cycle 29
PI: Walters, Admin PI: Hermes, $23,137 to BU, 12/01/2022 - 11/30/2025

High-Speed Observations of White Dwarfs in TESS Cycle 4
NASA, TESS Guest Investigator Program, Cycle 4
PI: Hermes, $70,000 to BU, 01/01/2023 - 12/31/2023

Another Few Biting the Dust: Characterizing Remnant Planetary Systems around White Dwarfs
NSF Graduate Research Fellowship Program (GRFP)
Fellowship for Joseph Guidry, PI: Hermes, $147,000 to BU, 08/30/2022-08/31/2025
(graduate student prize fellowship)

A legacy survey for evolved planetary systems within 100pc
Space Telescope Science Institute, HST Guest Observer Program 16642, Cycle 29
PI: Gänsicke, Admin PI: Hermes, $67,631 to BU, 12/01/2021 - 11/30/2024

A Transit Search of Bright White Dwarfs in the Ecliptic North
NASA, TESS Guest Investigator Program, Cycle 2
PI: Hermes, $50,000 to BU, 01/16/2020 - 01/15/2022

Finding New Compact Binary Star Systems with Gaia DR2
Massachusetts Institute of Technology, Massachusetts Space Grant Consortium
Fellowship for Isaac Lopez, PI: Hermes, $5,500 to BU, 05/16/2020 - 08/15/2020

Comparisons of Total Ages in Wide White Dwarf Binaries using Gaia DR2
Massachusetts Institute of Technology, Massachusetts Space Grant Consortium
Fellowship for Tyler Heintz, PI: Hermes, $5,500 to BU, 05/16/2020 - 08/15/2020

Data Access for Individual Faculty Member and 2 Graduate Students
Sloan Digital Sky Survey (SDSS-V)
PI: Hermes, $230,000 (in kind, External Participant → Survey Scientist), 12/07/2020 - 03/31/2028

Accurate physical parameters of an orphan runaway white dwarf
Space Telescope Science Institute, HST Guest Observer Program 15918, Cycle 27
PI: Raddi, Co-I: Hermes, $10,947 to BU, 12/01/2019 - 11/30/2023

UV properties of the first known surviving companions of Type Ia supernovae
Space Telescope Science Institute, HST Guest Observer Program 15871, Cycle 27
PI: Shen, Co-I: Hermes, $11,072 to BU, 12/01/2019 - 11/30/2023

K2 Observations of Variable White Dwarfs, Cycle 6-Boston University
NASA, K2 Guest Investigator Program, Cycle 6
PI: Hermes, $50,000 to BU, 01/01/2019 - 12/31/2020

White Dwarf Variability in the Ecliptic South
NASA, TESS Guest Investigator Program, Cycle 1
PI: Hermes, $50,000 to BU, 12/21/2018 - 12/20/2021

Extreme evolved solar system (EESS)
Space Telescope Science Institute, HST Guest Observer Program 15073, Cycle 25
PI: Gänsicke, Admin PI: Hermes, $12,802 to BU, 02/01/2020 - 01/31/2022

Collaborative Proposal: The Coeval Degenerates Survey
NSF, Astronomy and Astrophysics Research Grant (AAG) Program
Co-PI: Hermes, $428,031 total, $174,678 to BU, 09/01/2019 - 08/31/2022

awards before 2019

K2 Observations of Variable WDs in Fields 14, 15 and 16
NASA, K2 Guest Investigator Program, Cycle 5
PI: Hermes, $50,000 to UNC, 01/01/2018 - 12/31/2018

Classical novae hibernation: a definitive confirmation
Space Telescope Science Institute, HST Guest Observer Program 15072, Cycle 25
PI: Gänsicke, Co-I Hermes, $10,229 to UNC, 01/01/2017 - 12/31/2018

High-precision asteroseismology of GW Lib
Space Telescope Science Institute, HST Guest Observer Program 14912, Cycle 24
PI: Szkody, Co-I Hermes, $10,229 to UNC, 01/01/2017 - 12/31/2018

Unraveling the oscillations of the richest pulsating WD
Space Telescope Science Institute, HST Guest Observer Program 14691, Cycle 24
PI: Hermes, $61,962 to UNC, 01/01/2016 - 12/31/2018

K2 Observations of Variable WDs in Fields 11, 12 and 13
NASA, K2 Guest Investigator Program, Cycle 4
PI: Hermes, $50,000 to UNC, 01/01/2016 - 12/31/2016

Breaking New Ground: Measuring Interiors in the Stellar Graveyard
Space Telescope Science Institute, Hubble Fellowship Program
PI: Hermes, $348,157 to UNC, 10/01/2015 - 09/31/2018

A legacy UV spectroscopic survey of the 13pc WD sample
Space Telescope Science Institute, HST Guest Observer Program 14076, Cycle 23
PI: Gänsicke, Co-I: Hermes, $12,273 to UNC, 01/01/2013 - 12/31/2016

Kepler's Active DAV
NASA, Kepler Guest Investigator Program, Cycle 5
PI: Winget, Co-I: Hermes, $43,695 to UT-Austin, 01/01/2013 - 12/31/2014

Kepler's Active DAV
NASA, Kepler Guest Investigator Program, Cycle 4
PI: Winget, Co-I: Hermes, $81,040 to UT-Austin, 01/01/2012 - 12/31/2013

Remote Undergraduate Observing
University of Texas at Austin, UT Longhorn Innovation for Teaching Grant
Co-PI: Hermes, $74,090, 01/01/2011 - 12/31/2011

Invited Scientific Talks

*Invited talks refer to talks given as a result of an unsolicited invitation. Talks given at conferences are marked with a * symbol.*

Astronomy Colloquium, Yale University, New Haven, CT, 2 October 2025

Astronomy Seminar, Iowa State University, Ames, IA, 22 November 2024
Physics Seminar, N.C. A&T State University, Greensboro, NC, 23 October 2024
Astronomy Colloquium, U. California Berkeley, Berkeley, CA, 10 October 2024

Astronomy Colloquium, Caltech, Pasadena, CA, 8 November 2023
Astronomy Colloquium, U. Massachusetts Amherst, Amherst, MA, 30 March 2023
*White Dwarfs from Physics to Astrophysics, KITP, Santa Barbara, CA, 15 Nov. 2022
Astronomy Colloquium, Joint IfA / University of Hawaii, Manoa, HI, 12 October 2022
Astronomy Colloquium, Rutgers University, New Brunswick, NJ, 22 September 2022
*TASC6/KASC13 Workshop, Leuven, Belgium, 12 July 2022
Astronomy Colloquium, Joint with Pitt. and Carnegie Mellon, Pittsburgh, PA, 18 April 2022

Astronomy Colloquium, MIT / Kavli Institute for Astrophysics, Cambridge, 19 October 2021
Astronomy Colloquium, U. Massachusetts Lowell (remote), Lowell, MA, 7 October 2021
Astronomy Colloquium, Stellar Astrophysics Center (remote), Aarhus, Denmark, 11 March 2021
Astronomy Colloquium, University of Leicester (remote), Leicester, UK, 17 February 2021

Astronomy Colloquium, Joint with STScI and JHU, Baltimore, MD, 19 February 2020

Stars and Planets Seminar, Harvard Center for Astrophysics, 23 September 2019
*KITP Conference: Planet-Star Connections, Santa Barbara, CA, 20-24 May 2019

invited talks before 2019

*Hydrogen Deficient Stars 2018, Armagh, Northern Ireland, 10-14 September 2018
*Physics of Oscillating Stars, Banyuls-sur-mer, France, 3-7 September 2018

Astronomy Colloquium, Joint with NRAO/UVA, Charlottesville, VA, 9 November 2017
Astronomy Colloquium, University of Texas, Austin, TX, 31 October 2017
Astronomy Colloquium, The Ohio State University, Columbus, OH, 19 October 2017
Astronomy Colloquium, University of Delaware, Newark, DE, 5 October 2017
*TASC3/KASC10 Workshop, Birmingham, UK, 18 July 2017

Astronomy Colloquium, Louisiana State University, Baton Rouge, LA, 21 October 2016
*Rotation/pulsation in the upper main sequence, Windermere, Cumbria, UK, 14 September 2016
*Annual Meeting, Sociedade Astronômica Brasileira, Ribeirão Preto, Brazil, 31 August 2016

Astronomy Colloquium, High Point University, High Point, NC, 24 June 2016
Astronomy Colloquium, University of Montreal, Montreal, Canada, 7 April 2016
Astronomy Colloquium, University of Toronto, Toronto, Canada, 1 April 2016
Astronomy Colloquium, Wesleyan University, Middletown, CT, 24 February 2016

*K2 Science Conference I, Santa Barbara, CA, 3 November 2015
Astronomy Colloquium, University of Valparaíso, Valparaíso, Chile, 24 September 2015
*KASC8 Workshop, Aarhus, Denmark, 15 June 2015
*Pulsations Specialist Meeting, Royal Astronomical Society, London, UK, 8 May 2015

Astronomy Colloquium, Keele University, Keele, UK, 19 November 2014
Astronomy Colloquium, Armagh Observatory, Armagh, UK, 13 March 2014

Astronomy Colloquium, University of Washington, Seattle, WA, 31 October 2013
*KASC6 Workshop, Sydney, Australia, 27 June 2013
*Whole Earth Telescope Workshop 10, Beijing, 7 March 2013

Stars and Planets Seminar, Harvard Center for Astrophysics, 29 October 2012
*Planets Beyond the Main Sequence, Arecibo, Puerto Rico, 21 January 2012

Invited Scientific Workshops

Conferences and workshops where all participants were invited.

LSST Astrophysics Scialog
Research Corporation for Science Advancement, Tucson, AZ, 15-17 November 2024

White Dwarfs as Probes of the Evolution of Planets, Stars, and the Expanding Universe
Kavli Institute for Theoretical Physics, Santa Barbara, CA, 17 October - 16 December 2022

Time-Domain Astrophysics Scialog
Research Corporation for Science Advancement, Tucson, AZ, 9-12 May 2019

Stellar/AGN Photometric Astronomy in the Era of SDSS-V
Carnegie Observatories, 3-4 May 2019

invited workshops before 2019

SDSS-V Milky Way Mapper Planning Meeting
Center for Computational Astrophysics, New York, NY, 11-12 February 2018

Invited Outreach Talks

Boston University Academy, STEM Seminar, 22 March 2022
Exploring the Cosmos joint with Katie Mack, JMP Discovery, Cary, NC, 27 January 2022

Maria Mitchell Observatory Student Seminar, Nantucket, MA, 13 July 2021
Maria Mitchell Observatory 2021 Science Speaker Series, Nantucket, MA, 23 June 2021
KITP Teachers' Conference: WDs as Cosmic Labs, Santa Barbara, CA, 29-30 March 2021
Boston University Academy, STEM Seminar, 5 April 2021

Maria Mitchell Observatory Student Seminar, Nantucket, MA, 14 July 2021
Maria Mitchell Observatory 2020 Science Speaker Series, Nantucket, MA, 1 July 2021
May the Fourth, JMP Statistical Discovery, Cary, NC, 4 May 2020
Astronomy on Tap Boston, Boston, MA, 9 March 2020

Boston Telescope Makers, Cambridge, MA, 14 November 2019

outreach talks before 2019

Astronomy on Tap North Carolina, Durham, NC, 4 December 2018
Teen Cosmos Guest Seminar, Museum of Life and Science, Durham, NC, 28 November 2018
Gallow Ridge Nursing Home, Chapel Hill, NC, 7 June 2018
Holly Springs High School, Cary, NC, 7 March 2018
Astronomy Days, NC Museum of Natural Science, Raleigh, NC, 27 January 2018

Staunton River Star Party, Scottsburg, VA, 21 October 2017
Astronomy Days, NC Museum of Natural Science, Raleigh, NC, 28 January 2017

Open Day, National Space Academy, Leciester, UK, 18 November 2013

Contributed Scientific Talks

*Contributed talks refer to talks given where I responded to an open call for talk submissions and are generally selected by an SOC. Talks given at conferences are denoted with a * symbol.*

*Binary Stars in the Space Era, Keele, UK, 1 July 2025
*SDSS 2025 Collaboration Meeting, Heidelberg, Germany, 2 June 2025
*sdOB 12: 12th Meeting on Hot Subdwarfs, Little Switzerland, NC, 23 May 2025

*Celebrating 21 years of Astronomy at Warwick Meeting, Warwick, UK, 4 September 2024
*TASC8/KASC15 Workshop, Porto, Portugal, 19 July 2024

*SDSS-V Collaboration Meeting, Las Cruces, NM, 5 June 2024

LDT Partners Meeting, Flagstaff, AZ (remote), 16 November 2023
*TASC7/KASC14 Workshop, Honolulu, HI, 21 July 2023

White Dwarfs from Physics to Astrophysics, KITP, Santa Barbara, CA, 19 October 2022
*22nd European White Dwarf Workshop, Tuebingen, Germany, 17 August 2022
*sdOB 10: 10th Meeting on Hot Subdwarfs, Liege, Belgium, 15 June 2022
ZTF Extension Workshop, University of Warwick (remote), 17 May 2022

*White Dwarf IAU Symposium 357, Hilo, HI, 22 October 2019
*TESS Science Conference, Cambridge, MA, 29 July 2019
*The Beginnings and Ends of Double White Dwarfs, Copenhagen, Denmark, 1 July 2019
*sdOB9: 9th Meeting on Hot Subdwarfs, Hendaye, France, 24 June 2019
*Boston Area Exoplanet Meeting, Boston, MA, 15 January 2019

contributed talks before 2019

*21st European White Dwarf Workshop, Austin, TX, 23 July 2018
*TASC4/KASC11 Workshop, Aarhus, Denmark, 9 July 2018
*Hubble Fellow Symposium, STScI, Baltimore, MD, 19 March 2018
*K2 Cluster Workshop, Boston, MA, 17 January 2018
*231st AAS Meeting, Washington, D.C., 9 January 2018

*Bay Area Exoplanet Workshop, Mountain View, CA, 1 December 2017
*Ages^2: taking stellar ages to the next power, Isola d'Elba, Italy, 21 September 2017
*sdOB9: 9th Meeting on Hot Subdwarfs, Krakow, Poland, 11 July 2017
Astronomy Group Seminar, University of Warwick, Coventry, UK, 31 June 2017
Coffee Talk, University of Edinburgh, Edinburgh, UK, 27 June 2017
*K2 Science Conference IV, NASA Ames, Mountain View, CA, 19 June 2017
*Hubble Fellow Symposium, STScI, Baltimore, MD, 14 March 2017
*229th AAS Meeting, Grapevine, TX, 5 January 2017

Coffee Talk, NASA Ames Research Center, Mountain View, CA, 3 November 2016
*20th European White Dwarf Workshop, Warwick, UK, 27 July 2016
*TASC2/KASC9 Workshop, Angra do Heroísmo, Terceira-Açores, Portugal, 12 July 2016
*Delaware White Dwarf Workshop, Newark, DE, 3 June 2016
*Hubble Fellow Symposium, STScI, Baltimore, MD, 16 March 2016

*sdOB8: 8th Meeting on Hot Subdwarfs, Oxford, UK, 20 July 2015
*Survey Specialist Meeting, Royal Astronomical Society, London, UK, 1 April 2015

*19th European White Dwarf Workshop, Montreal, Canada, 11 August 2014

*Multi-fiber Survey Planning Meeting, Durham, UK, 15 April 2014
Asteroseismology Local Workshop, University of Warwick, Coventry, UK, 10 February 2014

Stellar Seminar, University of Texas, Austin, TX, 27 Februrary 2013
Las Cumbres Observatory Members Workshop, Santa Barbara, CA, 23 January 2013
*221st AAS Meeting, Long Beach, CA, 10 January 2013

*18th European White Dwarf Workshop, Krakow, Poland, 12 August 2012

Stellar Seminar, University of Texas, Austin, TX, 12 October 2011
*KASC4 Workshop, Boulder, CA, 13 July 2011

Research Mentoring

*Students for whom I have served as primary advisor. Students at other institutions marked with **

Graduate Students

Stefan Arseneau (PhD expected by 2030)	2024-present
Ciarra Coston (PhD expected by 2030)	2024-present
Sam Imperato (departed program)	2022-2023
Lou Baya Ould Rouis (**NASA FINESST**, PhD expected by 2027)	2021-present
Joseph Guidry (**NSF GRFP**, PhD expected by 2027)	2021-present
Aislynn Wallach (MA received 2021)	2020-2021
Tyler Heintz (**PhD 2024**)	2019-2024
Ben Roulston (**PhD 2022, now Assistant Professor at Clarkson University**)	2019-2022
Isaac Lopez (MA received 2019)	2019-2021
*Joshua Reding (co-supervised w/ Chris Clemens, UNC, **PhD 2022**)	2016-2022
*Zachary Vanderbosch (co-supervised w/ Don Winget, UT-Austin, **PhD 2021**)	2015-2021

Undergraduate Students

Ariyana Bonab (2025 IAR Prize)	2024-2025
Reuben Dsouza	2024-2025
Raul Lama	2024
*Bryce Badgett (NCAT Summer Research Intern)	2024
Shelby Cavanaugh	2023-2024
Alex Thornton	2023-2024
Maya Steen (2023 IAR Prize)	2023-2024
Brock Ewing	2023-2024
Madison VanWyngarden (2023 Goldwater Scholar, 2023 USRA Distinguished Undergraduate Award, 2024 IAR Prize, 2024 Fulbright Fellow, NSF GRFP)	2021-2024
Yi-Ting Chen	2021-2022
Jay LoMonaco	2021-2022
Annabelle Paiva	2021-2022

Odelia Putterman (2022 Goldwater Scholar)	2020-2021
*Corinna Peña (Maria Mitchell REU, Butler U.)	2021
*Alex Granados (Maria Mitchell REU, Wellesley U.)	2020
Krishan Kumar	2019
Huyongqing (Sunny) Chen	2019
Kera Regan-Byrne	2019

High-School Students

Filippo Nicolai (BU Academy senior thesis)	2023-2024
Charlie Walsh (BU Academy senior thesis)	2021-2022
*Ben Rosenthal (BU RISE program)	2021
*Melissa Rivera (Regeneron Science Talent Search)	2019-2020

Professional Service

Conference Scientific Organizing Committees

Co-Chair, SOC, 24th European Workshop of White Dwarfs, Vienna, Austria	2026 August
Member, SOC, 12th Meeting on Hot Subdwarfs, Little Switzerland, NC, USA	2025 May
Member, SOC, TESS Science Conference III, Boston, MA	2024 July
Member, SOC, 23rd European Workshop of White Dwarfs, Barcelona, Spain	2024 July
Member, SOC, TESS Science Conference II, Boston, MA	2021 August
Chair, SOC, TASC5/KASC12 Workshop, Boston, MA	2019 July
Co-Chair, SOC, Kepler/K2 Science Conference V, Glendale, CA	2019 March
Member, SOC, Boston Area Exoplanet Science Meetings	2019-2022
Member, SOC, 4th TASC Meeting, Aarhus, Denmark	2018 July
Member, SOC, Kepler/K2 Science Conference IV, NASA Ames	2017 June

Professional Committees and Working Groups

Management Committee (Survey Scientist), Milky Way Mapper, SDSS-V	2024-present
External Member, DECam Local Volume Exploration Survey (DELVE)	2024-present
External Participant, SDSS-V	2020-present
Member, Zwicky Transient Facility II Community Science Advisory Committee	2020-2024
External Participant, Zwicky Transient Facility	2018-present
Steering Committee, *TESS* Asteroseismology Consortium (TASC)	2017-present
Co-Chair, TESS Asteroseismology Science Consortium, Working Group 8	2017-present
Deputy Chair, *K2* Users Panel	2016-2019

Reviewer for Publications

I have refereed 30 publications since 2015, and 22 since 2019:

Nature (2019, 2024)
The Astrophysical Journal (2015, 2016, 2018, 2021, 2023)
Monthly Notices of the Royal Astronomical Society (annually from 2015-2025)
Science Advances (2015)
Astronomy & Astrophysics (2015, 2021, 2025)
Frontiers in Astronomy and Space Sciences (2020)

Reviewer on Panels

Funding Panels

Reviewer, NSF Astronomy & Astrophysics Grant (AAG) Program	2022
Reviewer, UK Science and Technology Facilities Council (STFC)	2019-2020
Reviewer, NASA Astrophysics Data Analysis (ADAP) Program	2020
Reviewer, NSF Graduate Research Fellowships Program (GRFP) Program	2019
Reviewer, Indo-U.S. Bilateral Workshop/Symposia/Training Program	2019
Reviewer, NASA Exoplanet Research (XRP) Program Review Panel	2019

Telescope Access Committees and Technical Reviews

Reviewer, NOIRLab Telescope Allocation Committee	2024
Reviewer, NASA Keck Telescope Allocation Committee	2021-2022
External Panelist, Hubble Space Telescope Time Allocation Committee	2021-2022
Reviewer, PLATO Mission Documentation Review	2020
Panelist, Chandra Space Telescope Time Allocation Committee	2018

University Service

Co-Organizer, Tertulia: CAS Junior Faculty Colloquium	2020-2025
Reviewer, UROP Advisory Committee	2020-2021

Department Service

Advising Board, Inclusive Astronomy	2023-2025
Association of Universities for Research in Astronomy (AURA), Member Rep.	2022-present
Member, Astronomy Faculty Search Committee	2023-2024
Director of Graduate Admissions	2021-2025
Convener, Weekly arXiv Journal Club	2023-2024
Member, Graduate Admissions Committee	2019-2021
Organizer, Institute for Astrophysical Research Seminar Series	2020-2021

Faculty Host, Institute for Astrophysical Research Seminar Series	2019-present
Undergraduate Academic Advisor	2019-present

PhD Dissertation Committees

2nd Reader, Caeley Pittman	2026 (planned)
External, Malia Lee Kao (UT-Austin)	2026 (planned)
2nd Reader, Melissa Hallum	2026 (planned)
External, 2nd Reader, Olivier Vincent (U. Montreal)	2025
Member, Adam Samuels	2025
2nd Reader, Allie McCarthy	2025
2nd Reader, John Wendeborn	2024
1st reader, Tyler Heintz	2024
Member, Olivia Curtis	2024
2nd Reader, Pat Tamburo	2023
1st reader, Ben Roulston	2022
2nd Reader, Zack Weaver	2022
External, 2nd Reader, Josh Reding (UNC Chapel Hill)	2022
Member, Kerry Hensley	2021
External, 2nd Reader, Zach Vanderbosch (UT-Austin)	2021

PhD Qualifying Examination Committees

Chair, Patrick Lierle	2025
Chair, Khalid Mohamed	2025
Advisor, Lou Baya Ould Rouis	2024
Advisor, Joseph Guidry	2024
Member, Allie McCarthy	2023
Advisor, Tyler Heintz	2021
Advisor, Aislynn Wallach	2021
Member, Melissa Hallum	2020
Member, Pat Tamburo	2020
Advisor, Ben Roulston	2019

Summary of Awarded Telescope Time

Hubble Space Telescope (HST): COS, STIS	11 orbits (PI) + 103 orbits (co-I, GO) + 657 orbits (co-I, SNAP)
James Webb Space Telescope (JWST): MIRI	6.33 hr (co-I), Cycle 3
Transiting Exoplanet Survey Satellite (TESS)	8900+ GI targets (PI), 2018-2025
4.3-m Lowell Discovery Telescope (LDT): Deveny	44 nights (PI), 2021-2025
1.8-m Perkins Telescope Observatory (PTO): PRISM	146 nights (PI), 2019-2025
4.1-m SOAR Telescope, via NOIRLab: Goodman	21 nights (PI), 2016-2025
3-m NASA Infrared Telescope Facility: SpeX	1 night (PI), 2023A
10-m Keck Telescope, via NASA: HIRESb	3 nights (co-I), 2022A-2022B

Kepler Space Telescope	2300+ GO targets (PI), 2011-2018
9.8-m Southern African Large Telescope: RSS, SALTICAM	12 hr (PI), 2016
8-m Very Large Telescope (VLT): UVES, FORS2	23 hr (PI), 2013-2016
8-m Gemini North Telescope: GMOS-N	3 hr (PI), 2015
4.2-m William Herschel Telescope: ISIS, ultracam	4 nights (PI), 2014
3.6-m New Technology Telescope (NTT): EFOSC2	4 nights (PI), 2015
2.5-m Isaac Newton Telescope (INT): IDS	13 nights (PI), 2014-2015
2.1-m Otto Struve, McDonald Observatory: Argos	101 nights (PI), 2012-2015

Press Interviews

My work has been described for general audiences by Nature, BBC News, Scientific American, Discovery, Science, New Scientist, Space.com, Los Angeles Times, The Guardian, National Geographic, Astronomy Magazine, Sky & Telescope, Bad Astronomy, and Cosmos Magazine. Interviews I have given to media outlets are below:

"Written in the Stars: How a BU Undergrad Rediscovered Her Passion for Space Science", The Brink, 18 November 2024: https://www.bu.edu/articles/2024/bu-undergrad-rediscovered-her-passion-for-space-science/

"Starlink suffers 'degraded service' from solar storm but emerges ", The Register, 13 May 2024: https://www.theregister.com/2024/05/13/starlink_solar_storm/
(additional interviews with The New York Times, Scientific American, and Science all stayed on background, after this HST post: https://x.com/jotajotahermes/status/1789732990655820212)

"Bad weather may hurt viewing of rare lunar eclipse early Friday in Mass.", The Boston Globe, 18 November 2021: https://www.bostonglobe.com/2021/11/18/metro/bad-weather-may-hurt-viewing-rare-lunar-eclipse-early-friday-mass/

"Runaway star caught streaking across Milky Way at 2 million mph ... in the wrong direction", LiveScience, 11 August 2021: https://www.livescience.com/runaway-star-streaks-milky-way.html

"Spinning star hurtling out of the Milky Way", Cosmos Magazine, 3 August 2021: https://cosmosmagazine.com/space/astrophysics/spinning-star-hurtling-out-of-the-milky-way/

"Why Is This Weird, Metallic Star Hurtling Out of the Milky Way?", The Brink, 8 July 2021: https://www.bu.edu/articles/2021/why-is-this-weird-metallic-star-hurtling-out-of-the-milky-way/

"The Science behind Leap Year", BU Today, 28 February 2020: https://www.bu.edu/articles/2020/leap-year-2020/

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Peer-Reviewed Publications While at BU

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