

Catherine C. Espaillat
Curriculum Vitae
February 13, 2026

Department of Astronomy
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EDUCATION

PhD, Astronomy and Astrophysics, University of Michigan, 2009
MS, Astronomy, University of Michigan, 2005
BA, Astronomy, Columbia University, 2003

POSITIONS

2024 – Present	Professor, Department of Astronomy, Boston University
2020 – 2024	Associate Professor, Department of Astronomy, Boston University
2013 – 2020	Assistant Professor, Department of Astronomy, Boston University
2012 – 2013	NASA Carl Sagan Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics
2009 – 2012	NSF Astronomy and Astrophysics Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics

HONORS

2023	Fellow, American Association for the Advancement of Science
2022	Faculty Fellow, BU College of Arts & Sciences Society of Fellows
2019	Scialog Fellow, Research Corporation for Science Advancement
2016	Kavli Fellow, National Academy of Sciences
2016	Sloan Fellow, Alfred P. Sloan Foundation
2015	CAREER, NSF
2012 – 2013	Carl Sagan Postdoctoral Fellow, NASA
2009 – 2012	Astronomy and Astrophysics Postdoctoral Fellow, NSF
2003 – 2005	Rackham Merit Fellow, University of Michigan

PUBLICATIONS

132 peer-reviewed publications (20 first-author, 29 as advisor); Citations=8,070 and H-index=48 (Source: NASA Astrophysics Data System); See Publications List

GRANTS

PI, co-PI, or administrative PI of 27 grants.

2025 “Confirming Onion-Shell Accretion in T Tauri Stars”

- Hubble Space Telescope* (9 orbits), \$69,147, Administrative PI: C. Espaillat (PI: T. Thanathibodee)
- 2024 “A multiwavelength study of protoplanetary disk ionization”
Hubble Space Telescope (6 orbits), \$45,938, PI: C. Espaillat
- 2024 “A multiwavelength study of protoplanetary disk ionization”
JWST (5.1 hrs), \$131,433, PI: C. Espaillat
- 2024 “A multiwavelength study of protoplanetary disk ionization”
Chandra (25 ks), \$21,590, PI: C. Espaillat
- 2023 “Searching for Evidence of EUV Photoevaporation in Actively Dispersing Protoplanetary Disks”
JWST (26.7 hrs), \$259,834, Co-PI: C. Espaillat (PI: T. Thanathibodee), Administrative PI: C. Espaillat
- 2022 “EUV vs. X-ray Photoevaporation of Protoplanetary Disks”
JWST (7.7 hrs), \$141,933, PI: C. Espaillat
- 2022 Student Observing Support
National Radio Astronomy Observatory, \$34,706. PI: C. Espaillat
- 2021 “Connecting Multiwavelength Variability of Protoplanetary Disks and Their Dynamic Host Stars”
NSF, AAG, \$464,331, PI: C. Espaillat
- 2021 “Outflows and Disks around Young Stars: Synergies for the Exploration of Ulysses Spectra (ODYSSEUS)”
Hubble Space Telescope (Archival), \$1,079,547 (\$539,066 to Boston University), Scientific Co-PI: C. Espaillat (PI: G. Herczeg), Administrative PI: C. Espaillat
- 2020 Student Observing Support
National Radio Astronomy Observatory, \$33,148, PI: C. Espaillat
- 2020 “A Comprehensive Multiwavelength Study of the Accretion Variability of GM Aur”
Hubble Space Telescope (6 orbits), \$161,116, Scientific PI: C. Robinson (PhD student), Administrative PI: C. Espaillat
- 2020 “Multiwavelength Characterization of Planet Formation Environments”
NASA, ADAP, \$481,864, PI: C. Espaillat
- 2019 “Short Timescale Accretion Variability in Young Low-Mass Stars”
Transiting Exoplanet Survey Satellite, \$47,000, Scientific PI: C. Robinson (PhD student), Administrative PI: C. Espaillat
- 2018 “Connecting Mass Accretion and Ejection in Pre-Main Sequence Stars”
Hubble Space Telescope (6 orbits), \$145,000, PI: C. Espaillat
- 2018 “Connecting Mass Accretion and Ejection in Pre-Main Sequence Stars”
Chandra (35ks), \$14,000, PI: C. Espaillat
- 2016 Sloan Research Fellowship
Alfred P. Sloan Foundation, \$55,000, PI: C. Espaillat
- 2016 “Footprints of the Magnetosphere: the Star–Disk Connection in T Tauri Stars”
Hubble Space Telescope (20 orbits), \$101,000, PI: C. Espaillat
- 2015 “Bridging the Gaps - Connecting Theory and Observations of Planet-Forming Disks and Addressing Underrepresented Populations in STEM”
NSF, CAREER, \$1,012,917, PI: C. Espaillat
- 2015 “Exploring the Dust-Gas Connection in the Protoplanetary Disk of GM Aur”

- Spitzer Space Telescope* (6 hrs) and *Hubble Space Telescope* (4 orbits), \$63,000, PI: C. Espaillat
- 2015 “Testing EUV Photoevaporation Models in Young Disks”
Hubble Space Telescope (6 orbits), \$51,000, PI: C. Espaillat
- 2014 “A Clearer View of Dust Evolution in Protoplanetary Disks”
Herschel Space Telescope (30 hrs), \$270,000, PI: C. Espaillat
- 2012 “Towards a Multi-Wavelength View of Planet-Forming Circumstellar Disks”
NASA, Carl Sagan Postdoctoral Fellowship, \$290,000, PI: C. Espaillat
- 2009 “Peering at the First Stages of Planet Formation: Getting a Clearer View of Grain Growth, Settling, and Clearing in Dusty Disks”
NSF, Astronomy and Astrophysics Postdoctoral Fellowship, \$249,000, PI: C. Espaillat
- 2008 “How Far does H₂ Go: Constraining FUV Variability in the Gaseous Inner Holes of Protoplanetary Disks”
Hubble Space Telescope (18 orbits), \$91,000, Scientific PI: C. Espaillat (PhD student), Administrative PI: N. Calvet
- 2008 “Mind the Gap: Timing Planet Formation by Looking in the Holes and Gaps of Dusty Disks”
Spitzer Space Telescope (5 hours), \$31,000, Scientific PI: C. Espaillat (PhD student), Administrative PI: N. Calvet
- 2007 “Probing the Planet-Forming Region of T Tauri Stars in Chamaeleon”
Hubble Space Telescope (12 orbits), \$65,000, Scientific PI: C. Espaillat (PhD student), Administrative PI: N. Calvet
- 2007 “Probing the Gas in the Planet-Forming Regions of Protoplanetary Disks”
Spitzer Space Telescope (46.8 hours), \$185,000, Scientific PI: C. Espaillat (PhD student), Administrative PI: N. Calvet

INVITED RESEARCH TALKS

Talks given at conferences are denoted with asterisks.

- 2025 *Gordon Research Conference on Origins of Solar Systems, Holyoke, MA, June 16 – 19
- 2025 Seminar, Carnegie Earth and Planets Laboratory, Washington, DC, June 5
- 2025 *PRIMA and the Future of Far-Infrared Science, Pasadena, CA, May 19 - 21
- 2025 Astronomy Department Colloquium, U Massachusetts, Amherst, MA, Feb 27
- 2025 *245th American Astronomical Society Meeting Special Session, National Harbor, MD, Jan 14
- 2024 Astronomy Department Colloquium, University of Michigan, Ann Arbor, MI, Nov 21
- 2024 CIERA Colloquium, Northwestern University, Evanston, IL, Oct 29
- 2024 Astronomy Department Colloquium, Cornell University, Ithaca, NY, Apr 25
- 2024 *ULLYSES: Continuing the Voyage of Discovery, Space Telescope Science Institute, Baltimore, MD, Mar 11 – 14
- 2023 Astronomy Department Colloquium, Penn State, State College, PA, Dec 6
- 2023 *GIYE Workshop, Bornova, Turkey, Nov 29
- 2023 *AAVSO 112th Annual Meeting, Somerville, MA, Nov 4
- 2023 Origins Seminar, University of Arizona, Tucson, AZ, Sept 18
- 2022 Seminar, INAF Astronomical Observatory of Rome, Rome, Italy, Dec 21
- 2022 *TESS* Science Team Meeting, MIT, Cambridge, MA, Oct 13 – 14

- 2022 *Multi-faceted Views of Planet Formation, Pasadena, CA, Jun 12 – 16
- 2022 Astrophysics Colloquium, University of Athens, Athens, Greece, Mar 29
- 2022 Physics and Astronomy Colloquium, Queen’s University, Kingston, Canada, Jan 28
- 2022 Astronomy Seminar, NOIRLab, Tucson, AZ, Jan 21
- 2021 *Stars and Planets in the Ultraviolet, Tempe, AZ, May 3 – 5
- 2021 Astronomy Colloquium, Queen Mary University of London, London, UK, Mar 26
- 2021 Astronomy Colloquium, Michigan State University, Lansing, MI, Mar 11
- 2021 Astronomy Colloquium, Ohio State University, Columbus, OH, Feb 25
- 2021 Astronomy Colloquium, University of Leicester, Leicester, UK, Feb 10
- 2021 *Committee on Space Research Scientific Assembly, Sydney, Australia, Jan 29 – 31
- 2020 Astronomy Colloquium, Missouri State, Springfield, MO, Dec 2
- 2020 Astronomy Colloquium, University of Illinois, Urbana-Champaign, IL, Nov 10
- 2020 Astronomy Colloquium, Carnegie Observatories, Pasadena, CA, Oct 27
- 2020 Astronomy Colloquium, Indiana University, Bloomington, IN, Oct 20
- 2020 *Celebrating the Legacy of the *Spitzer Space Telescope*, Pasadena, CA, Feb 11 – 13
- 2020 *Gordon Research Conference on Origins of Life, Galveston, TX, Jan 19 – 24
- 2019 *Radio Science Symposium, Massachusetts Institute of Technology, Haystack Observatory, Westford, MA, Nov 1
- 2019 Physics and Astronomy Colloquium, Tufts University, Medford, MA, Oct 25
- 2019 Colloquium, Space Telescope Science Institute, Baltimore, MD, Oct 23
- 2019 Submillimeter Array Seminar, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Oct 11
- 2019 *Extreme Solar Systems IV, Reykjavik, Iceland, August 19 – 23
- 2019 Junior Faculty Colloquium, Boston University, Boston, MA, Feb 15
- 2019 Astronomy Colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Feb 7
- 2019 *Plenary Lecture, American Astronomical Society, Seattle, WA, Jan 6 – 10
- 2018 Astronomy Colloquium, SOFIA Science Center, Mountain View, CA, Oct 24
- 2018 *TMT Science Forum, Pasadena, CA, Dec 10 – 12
- 2018 *Unsolved Problems in Astrophysics and Cosmology, Budapest, Hungary, Jul 1 – 7
- 2018 Astronomy Colloquium, University of Massachusetts Lowell, Lowell, MA, Apr 25
- 2018 *SPHEREx Synergies Workshop, Cambridge, MA, Jan 30 – 31
- 2017 *Exoplanets and Planet Formation, Shanghai, China, Dec 11 – 15
- 2017 Astronomy Colloquium, University of Rochester, Rochester, NY, Oct 23
- 2017 Astronomy Colloquium, University of Maryland, College Park, MD, Oct 11
- 2017 Astrophysics Colloquium, Massachusetts Institute of Technology, Cambridge, MA, Sep 26
- 2017 *Chondrules as Astrophysical Objects, Vancouver, Canada, May 9 – 11
- 2017 Colloquium, National Research Council Herzberg, Victoria, Canada, Mar 14
- 2017 Physics and Astronomy Colloquium, University of British Columbia, Vancouver, Canada, Mar 13
- 2017 Colloquium, Kavli Institute for Theoretical Physics, University of California Santa Barbara, Santa Barbara, CA, Mar 9
- 2017 *Disks, Dynamos and Data, University of California Santa Barbara, Santa Barbara, CA, Feb 6 – 10

- 2017 Astronomy Department Colloquium, University of California Santa Cruz, Santa Cruz, CA, Jan 11
- 2016 Astronomy Colloquium, Columbia University, New York, NY, Oct 5
- 2016 *Star Formation 2016, Exeter, UK, Aug 22 – 26
- 2016 Astronomy Department Colloquium, Yale University, New Haven, CT, Feb 18
- 2015 Physics and Astronomy Colloquium, University of Toledo, Toledo, OH, Dec 10
- 2015 Physics and Astronomy Colloquium, Vanderbilt University, Nashville, TN, Nov 3
- 2015 Astronomy and Astrophysics Colloquium, University of Toronto, Toronto, Canada, Oct 9
- 2015 Colloquium, European Space Astronomy Centre, Madrid, Spain, Jul 23
- 2015 Astronomy Department Colloquium, University of Texas, Austin, TX, Apr 21
- 2015 Astrophysics Colloquium, Massachusetts Institute of Technology, Cambridge, MA, Mar 31
- 2015 *Transition Disks and Planet Formation, Leiden, Netherlands, Mar 2 – 6
- 2015 Physics and Astronomy Department Colloquium, Amherst College, Amherst, MA, Feb 24
- 2015 *Revealing the Structure of Protoplanetary Disks, Morelia, Mexico, Jan 25 – 28
- 2014 Joint Astronomy Department and Institute for Advanced Study Colloquium, Princeton University, Princeton, NJ, Nov 24
- 2014 *Disks and Planet Formation, University of Michigan, Ann Arbor, MI, Oct 12 – 14
- 2014 *Observations and Modeling of Circumstellar Disks, Puebla, Mexico, Jun 30 – Jul 11
- 2014 Planetary Science Seminar, Caltech, Pasadena, CA, May 29
- 2014 Colloquium, Lowell Observatory, Flagstaff, AZ, Mar 13
- 2014 Astronomy Department Colloquium, Penn State, State College, PA, Feb 19
- 2013 Astronomy Department Colloquium, Wesleyan University, Middletown, CT, Apr 24
- 2013 *Transformational Science with ALMA, North American ALMA Science Center, Hilo, HI, Apr 8 – 12
- 2013 Astronomy Department Colloquium, Boston University, Boston, MA, Mar 18
- 2013 Physics and Astronomy Department Colloquium, Rice University, Houston, TX, Mar 13
- 2013 Astronomy Department Colloquium, Harvard University, Cambridge, MA, Mar 1
- 2013 Physics Department Colloquium, University of California San Diego, San Diego, CA, Feb 27
- 2013 Joint University of Virginia and NRAO Astronomy Colloquium, NRAO, Charlottesville, VA, Feb 21
- 2013 Astronomy Department Colloquium, University Massachusetts, Amherst, MA, Jan 31
- 2012 Star Formation Seminar, Vanderbilt University, Nashville, TN, Dec 7
- 2012 Rackham Distinguished Alumni Lecture, University of Michigan, Ann Arbor, MI, Oct 18
- 2012 Astronomy Department Colloquium, University of Florida, Gainesville, FL, Sep 5
- 2012 Astronomy Department Colloquium, Universidad Nacional Autonoma de Mexico, Morelia, Mexico, Mar 20
- 2012 *New Quests in Stellar Astrophysics III, Puerto Vallarta, Mexico, Mar 12 – 16
- 2012 Department of Astrophysics Seminar, American Museum of Natural History, New York, NY, Jan 31
- 2011 Astronomy Department Colloquium, Boston University, Boston, MA, Nov 7
- 2011 Astronomy Department Colloquium, Yale University, New Haven, CT, Oct 27
- 2011 *Signposts of Planets, NASA Goddard, Greenbelt, MD, Oct 18 – 20
- 2011 *National Society of Black/Hispanic Physicists, Austin, TX, Sep 21 – 25

INVITED RESEARCH WORKSHOPS

- 2023 “Provenances of the Solar System,” International Space Science Institute, Bern, Switzerland, Feb 16 – 19
- 2020 “Provenances of the Solar System,” International Space Science Institute, Bern, Switzerland, Feb 16 – 21
- 2019 “Time-Domain Astrophysics Scialog,” Research Corporation for Science Advancement, Tucson, AZ, May 9 – 12
- 2018 “29th Symposium on Kavli Frontiers of Science,” National Academy of Sciences, Irvine, CA, Feb 15 – 17
- 2017 “Confronting MHD Theories of Accretion Disks with Observations,” Kavli Institute for Theoretical Physics, Santa Barbara, CA, Feb 6 - Mar 17
- 2016 “28th Symposium on Kavli Frontiers of Science,” National Academy of Sciences, Irvine, CA, Nov 4 – 6

CONTRIBUTED RESEARCH TALKS

Talks given at conferences are denoted with asterisks.

- 2024 *TESS Science Conference III, Cambridge, MA, Jul 29 – Aug 2
- 2020 *5th Network for UV Astronomy Workshop, Vitoria, Spain, Oct 27 – 29
- 2017 *MA-CT Regional Star Formation Meeting, New Haven, CT, Jan 27
- 2015 *Frontiers in Star Formation, Ann Arbor, MI, Jun 18 – 19
- 2013 *International Astronomical Union Symposium 299, Victoria, Canada, Jun 2 – 7
- 2013 *From Stars to Life, Gainesville, FL, Apr 3 – 6
- 2013 *American Astronomical Society, Long Beach, CA, Jan 6 – 10
- 2012 Seminar, Princeton University, Princeton, NJ, Nov 28
- 2012 *Sagan/Michelson Fellows Symposium, Pasadena, CA, Nov 8 – 9
- 2012 *American Astronomical Society, Anchorage, AK, Jun 10 – 14
- 2012 Seminar, University Lethbridge, Lethbridge, Canada, May 30
- 2012 Seminar, Arcetri Observatory, Florence, Italy, May 15
- 2011 Astrophysics Brown Bag Lunch Talk, Massachusetts Institute of Technology, Boston, MA, Nov 21
- 2011 Seminar, Cerro Tololo International Observatory, La Serena, Chile, Jun 16
- 2011 FOST Seminar, Observatoire de Grenoble, Grenoble, France, May 13
- 2011 *Transport Processes in YSOs, Ringberg, Germany, Feb 7 – 11
- 2011 *American Astronomical Society, Seattle, WA, Jan 9 – 13
- 2011 *NSF Astronomy and Astrophysics Postdoctoral Fellow Symposium, Seattle, WA, Jan 8 – 9
- 2010 *American Astronomical Society, Washington, D.C, Jan 3 – 7
- 2010 *NSF Astronomy and Astrophysics Postdoctoral Fellow Symposium, Washington, D.C, Jan 2 – 3
- 2009 Radio and Geoastronomy Division Lunch Talk, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Nov 20
- 2009 *Postdoc Symposium, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Oct 14

- 2009 *American Astronomical Society, Long Beach, CA, Jan 4 – 8
- 2008 Graduate Student Colloquium, Universidad Nacional Autonoma de Mexico, Morelia, Mexico, Mar 11
- 2008 *National Society of Black/Hispanic Physicists, Washington, D.C., Feb 20 – 23
- 2008 *American Astronomical Society, Austin, TX, Jan 7 – 11
- 2007 Seminar, Cerro Tololo International Observatory, La Serena, Chile, Feb 1

TEACHING

Undergraduate Majors Courses

Principles of Astronomy II, AS203 (Spring 2015, 2018, 2019, 2020, 2022, 2023, 2025)

Undergraduate Non-Majors Courses

The Solar System, AS101 (Fall 2014, 2015, 2016, 2019, Spring 2026)

The Astronomical Universe, AS102 (Fall 2022, 2023, 2024, 2025)

Graduate Courses

Gravitational Astrophysics, AS725 (Spring 2016)

Special Topics in Astrophysics, AS791 (Spring 2014)

Astrophysics Seminar, AS850/851 (Fall 2018, 2023, Spring 2019, 2024)

RESEARCH MENTORING

Postdoctoral Researchers

2021 – 2024	Thanawuth Thanathibodee
2016 – 2019	Enrique Macias
2015 – 2018	Alvaro Ribas
2014 – 2015	Laura Ingleby

PhD Students

2024 – Present	Naiara Patino (PhD candidate)
2024 – Present	Maire Volz (PhD candidate)
2022 – Present	Luisa Zamudio (PhD candidate)
2020 – Present	Caeley Pittman (PhD candidate)
2018 – 2024	John Wendeborn (PhD)
2017 – 2022	Anneliese Rilinger (PhD)
2015 – 2021	Sierra Grant (PhD)
2014 – 2020	Connor Robinson (PhD)

Post-baccalaureate Students

2024	Sophia Lopez
2023 – 2023	Zihua Xin
2018 – 2019	Jonah Paasche-Orlow

Undergraduate Students

2023 – 2024	Tiphany Thaiduc, Boston University
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2022 – 2024 Sophia Lopez, Boston University
 2020 – 2022 Caleb Scott-Joseph, Swarthmore College
 2022 Nicole Flors, Boston University Undergraduate Research Opportunities Program
 2020 – 2022 Zihua Xin, Boston University
 2018 – 2019 Sarah Luetzgen, Boston University
 2016 – 2019 Evan Leto, Boston University
 2016 – 2018 Jonah Paasche-Orlow, Boston University Kilachand Honors College Thesis
 2017 Adam Rubinstein, NSF Research Experiences for Undergraduates
 2016 – 2017 Amanda Reveles, Boston University
 2016 Marah Brinjikji, NSF Research Experiences for Undergraduates
 2015 Nathaniel Avish, Boston University
 2014 – 2015 Matt Rutala, NSF Research Experiences for Undergraduates
 2014 Rachel Schlueter, Boston University
 2012 – 2013 Corinne Tu, Harvard University Senior Undergraduate Thesis
 2012 – 2013 Diana Powell, Harvard University Junior Undergraduate Thesis
 2012 Margaret Landis, NSF Research Experiences for Undergraduates
 2011 Alexander Spatzier, NSF Research Experiences for Undergraduates
 2009 Justin Nieuwma, University of Michigan

High-School Students

2018 – 2019 Caleb Scott-Joseph, Boston University Academy (Senior Thesis Project)

SERVICE

PhD Dissertation Committees

2025 Alessia Rota, Leiden University (reader)
 2024 Connor O'Brien, Boston University (chair)
 2024 Ardjan Strum, Leiden University (reader)
 2022 Anneliese Rilinger, Boston University (primary advisor)
 2021 Sierra Grant, Boston University (primary advisor)
 2020 Connor Robinson, Boston University (primary advisor)
 2020 Ezequiel Manzo-Martinez, Universidad Nacional Autonoma de Mexico (member)
 2020 Eunkyun Han, Boston University (member)
 2019 Phillip Phipps, Boston University (member)
 2018 Mark Veyette, Boston University (member)
 2018 Jordan Montgomery, Boston University (member)
 2017 Christopher Theissen, Boston University (member)
 2016 Ewan Douglas, Boston University (member)
 2016 Dolon Bhattacharyya, Boston University (member)
 2016 Sadia Hoq, Boston University (member)
 2015 Alvaro Ribas, Autonoma Universidad de Madrid (member)
 2014 Patricio Nunez, Boston University (member)

Conference Organizing Committees

- 2025 Member, The Role of Accretion and Ejection Variability in the Evolution of Young Stars and their Disks, Munich, Germany, May 19 – 22
- 2024 Member, ULLYSES: Continuing the Voyage of Discovery, Baltimore, MD, Mar 11 – 14
- 2023 Co-chair, First Year of *JWST* Science, Baltimore, MD, Sep 11 – 14
- 2022 Member, Cool Stars 21 Splinter Session Organizing Committee, Toulouse, France, Jul 7
- 2021 Member, Star Formation: From Clouds to Discs, Dublin, Ireland, Oct 18 – 21
- 2021 Session Chair, Cool Stars 20.5, Boston, MA, Mar 2 – 4
- 2021 Session Chair, COSPAR, Sydney, Australia, Jan 29 – 31
- 2020 Member, Planet Formation Five Years after HL Tau, Santiago, Chile, Dec 7 – 11
- 2019 Chair, Boston Area Exoplanet Science Meeting, Boston, MA, Jan 15
- 2019 Member, Horizons in Planetary Systems, Victoria, Canada, May 13 – 17
- 2019 Member, New England Star Formation Meeting, Amherst, MA, Jan 18
- 2018 Member, Cool Stars, Boston, MA, Jul 29 – Aug 3
- 2018 Member, Kavli Frontiers of Science, Irvine, CA, Feb 15 – 17
- 2018 Member, Accretion in Stellar Systems, Cambridge, MA, Aug 8 – 10
- 2018 Chair, New England Star Formation Meeting, Boston, MA, Jan 16
- 2017 Member, Disks, Dynamos and Data, Santa Barbara, CA, Feb 6 – 10
- 2017 Member, New England Star Formation Meeting, New Haven, CT, Jan 27
- 2016 Chair, NRAO Live ALMA Proposal Workshop, Boston, MA, Mar 7 – 8
- 2015 Member, Frontiers in Star Formation, Ann Arbor, MI, Jun 18 – 19
- 2015 Session Chair, Frontiers in Star Formation, Ann Arbor, MI, Jun 18 – 19
- 2015 Session Chair, Transition Disks and Planet Formation, Leiden, Netherlands, Mar 2 – 6
- 2014 Session Chair, The SMA: First Decade of Discovery, Cambridge, MA, Jun 9 – 10

Professional Committees and Working Groups

- 2025 – Present POEMM Science Working Group
- 2022 – Present AXIS Stars and Exoplanets Science Working Group
- 2024 – 2025 AAAS Nominations and Leadership Development Chair of Section D
- 2023 – 2025 *JWST* Users Committee
- 2023 NOIRlab Independent Review Committee
- 2022 – 2023 FIRSST Science Steering Committee
- 2020 – 2023 Nexus for Exoplanet System Science Steering Committee
- Committee on Communication and Engagement
- 2017 – 2024 Association of Universities for Research in Astronomy Member Representative
- 2019 – 2022 Association of Universities for Research in Astronomy Advisory Committee on Communication and Engagement
- 2019 – 2022 Science Advisory Committee, *HST* UV Legacy DDT Initiative
- 2018 – 2019 NASA Great Observatories Science Analysis Group
- 2016 – 2019 American Astronomical Society van Beisbroeck Prize Committee
- 2014 – 2018 Planet Formation Imager Science Working Group Topic Coordinator

Reviewer for Publications

Astronomy & Astrophysics Journal, Astronomy & Astrophysics Journal Letters, Astrophysical Journal, Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society, The

National Academies Press, “Pathways to Discovery in Astronomy and Astrophysics for the 2020s” (June – July 2021) and “Decadal Survey on Astronomy and Astrophysics 2020: Science Panel Appendixes” (July – August 2020)

Reviewer on Panels

2023 External Reviewer, *James Webb Space Telescope* Time Allocation Committee
2023 External Reviewer, Irish Research Council
2022 Panel Chair, *Hubble Space Telescope* Time Allocation Committee
2022 Reviewer, *Hubble Space Telescope* Time Allocation Executive Committee
2021 External Reviewer, *Hubble Space Telescope* Time Allocation Committee
2020 External Reviewer, French National Research Agency
2019 External Reviewer, FONDECYT
2019 Panel Chair, ALMA Time Allocation Committee
2019 Reviewer, ALMA Time Allocation Executive Committee
2019 External Reviewer, *Hubble Space Telescope* Time Allocation Committee
2018 External Reviewer, NASA Emerging Worlds Program
2018 External Reviewer, *Hubble Space Telescope* Time Allocation Committee
2017 Reviewer, NASA Exoplanet Research Program
2016 Panel Chair, NASA IRTF Time Allocation Committee
2015 External Reviewer, Royal Society University Research Fellowships
2015 Reviewer, ALMA Time Allocation Committee
2015 Reviewer, *Hubble Space Telescope* Time Allocation Committee
2015 Reviewer, NASA IRTF Time Allocation Committee
2014 External Reviewer, NASA Exoplanet Research Program
2014 External Reviewer, NASA Emerging Worlds Program
2014 Reviewer, *Chandra* Time Allocation Committee
2014 Reviewer, NASA IRTF Time Allocation Committee
2014 Reviewer, NASA NESSF Graduate Fellowship Program
2013 Reviewer, NSF Astronomy and Astrophysics Grants Program
2013 Reviewer, *Hubble Space Telescope* Time Allocation Committee

University Service

2025 Panelist, BU’s Shared Values and the Future of Higher Education, Nov 18
2023 – 2024 Mentor, D&I STARS
2019 – 2020 Organizer, Tertulia: The Junior Faculty Colloquium
2019 – 2020 Faculty Mentor, Alpha Sigma Kappa
2019 Organizer, Engaging in Research Collaborations Workshop, Nov 21
2018 Speaker, Minority Connection Initiative Professor Office Hours, Nov 9
2018 Speaker, Research Computing Governance Committee Meeting, Sept 14
2015 – 2018 Member, College of Arts and Sciences Writing Board

Department Service

2025 – Present Associate Chair, Department of Astronomy
2022 – Present Director, Institute for Astrophysical Research
2014 – Present Undergraduate Academic Advisor
2021 – 2025 Director of Undergraduate Studies

2022 – 2024 Co-Chair, Astronomy Undergraduate Program Review Committee
 2023 – 2024 Chair, Astronomy Department Faculty Search Committee
 2019 – 2020 Faculty Host, Institute for Astrophysical Research Seminar Series
 2015 – 2020 Member, Women as Leaders in Astronomy
 2013 – 2020 Reviewer, Lowell Discovery Telescope Time Allocation Committee
 2014 – 2019 Member, Graduate Comprehensive Examination Board
 2019 Joint Boston University and Boston Latin High School Observing Night, Oct 18
 2018 – 2019 Organizer, Institute for Astrophysical Research Seminar Series
 2018 Interim Director, Institute for Astrophysical Research
 2017 Chair, Graduate Admissions Committee
 2013 – 2017 Member, Graduate Admissions Committee
 2016 Judge, Art of Astrophysics Contest
 2015 Interim Chair, Graduate Admissions Committee
 2014 Department Representative, Undergraduate Majors Fair
 2010 – 2012 Organizer, Radio and Geoastronomy Lunch Talks, Harvard-Smithsonian Center for Astrophysics

OUTREACH

Program Activities

2015 – Present Founding Director, League of Underrepresented Minoritized Astronomers
 Created a peer mentoring program for over 100 underrepresented minority faculty, research scientists, postdoctoral researchers, and graduate students in astronomy, physics, and planetary science.
 2012 – 2015 Mentor, Mellon Mays Mentoring Program, Woodrow Wilson National Fellowship Foundation
 Mentored two underrepresented minority graduate students.
 2009 – 2012 Coordinator, Women in STEM Mentors Program, Harvard College
 Directed a program that paired female graduate and undergraduate students in mentoring relationships. Restructured the program and tripled enrollment to over 200. Supervised two undergraduate student interns.
 2008 – 2009 Coordinator, NSF AGEP Mentoring Program, University of Michigan
 Coordinated program for 40 underrepresented minority students in STEM. Supervised six graduate student mentors and mentored two second-year graduate students.
 2006 – 2008 Mentor, Rackham Mentoring Program, University of Michigan
 Mentored 20 first-year graduate students in STEM.

Invited Outreach Talks

2025 Culture and Community Seminar, Carnegie Earth and Planets Laboratory, Washington, DC, June 6
 2024 Conversations on Inclusion and Equity, University of Michigan, Ann Arbor, MI, Nov 22
 2024 Watertown Public Library, Watertown, MA, Apr 2
 2022 Women's Guild Speaker's Series, Boston University, Boston, MA, Nov 9

- 2021 Day of Diversity in STEM, Boston University, Boston, MA, Apr 1
- 2020 Public Talk, Central Florida Astronomical Society, Orlando, FL, Nov 11
- 2020 Public Talk, Florida Institute of Technology, Melbourne, FL, Oct 23
- 2020 Dean Astronomy Lecture, California Academy of Sciences, San Francisco, CA, Jan 13
- 2019 Institute of Theory and Computation Colloquium, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Feb 7
- 2018 Northeast Graduate Women in Science and Engineering, Cambridge, MA, Aug 17
- 2018 Latino Initiative Summer Seminar, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Aug 13
- 2015 Graduate Women in Science and Engineering Mentoring Program, Boston University, Boston, MA, Oct 27
- 2015 NSF AGEP Symposium Keynote, University of Michigan, Ann Arbor, MI, Mar 20
- 2014 Graduate Women in Science and Engineering Mentoring Program, Boston University, Boston, MA, Oct 27
- 2014 Science Engineering and Technology in the City, Boston University, Boston, MA, Apr 12
- 2012 Masters-to-PhD Bridge Program, Vanderbilt University, Nashville, TN, Dec 6
- 2010 Latina Empowerment Development Conference, Cambridge, MA, Nov 14

Invited Outreach Panels

- 2025 STEM Panel, Latina Empowerment Development Conference, Cambridge, MA, Feb 8
- 2022 Trailblazers in Engineering, Purdue University, West Lafayette, IN, Jul 26
- 2019 Research Opportunities for Young Women, Boston University, Boston, MA, Jul 10
- 2019 Scientista Symposium, Boston, MA, Mar 29 – 31
- 2017 Latino Initiative Discussion on STEM Innovators, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Aug 4
- 2015 Banneker Institute, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, Jul 17
- 2015 Vanguard: Conversations with Women of Color in STEM, Boston, MA, Jul 7

PUBLICATIONS LIST

Below I list my peer-reviewed publications. My name is in bold font. Postdoctoral researchers are underlined. Students are underlined and italicized, with graduate students noted with an asterisk and undergraduates indicated with two asterisks. I denote the papers on which I am the first author or advisor using the ‡ symbol.

131. Indications of Rapid Dust Formation in the Inner Region of a Protoplanetary Disk
 Thanathibodee, T., **C. Espaillat**, N. Calvet, Z. Zhu, J. Nammanee, C. Pittman*, and M. Volz*,
 2026, *Astrophysical Journal Letters*, in press.

<https://ui.adsabs.harvard.edu/abs/2026arXiv260208973T>

130. 3D MHD simulations of planet migration in cavities and inner discs of magnetized stars
 Romanova, M. M., A. V. Koldoba, G. V. Ustyugova, C. C. Espaillat, and R. V. E. Lovelace,
 2026, *Monthly Notices of the Royal Astronomical Society*, in press.

<https://ui.adsabs.harvard.edu/abs/2026MNRAS.tmp..134R>

129. IPA. Accretion rate of a low-mass Class 0 protostar, measured via mid-infrared fluorescent

OH emission

Watson, D. M., M. Narang, *C. V. Pittman**, H. Tyagi, R. Gutermuth, A. E. Rubinstein, N. J. Evans, L. W. Hartmann, S. T. Megeath, P. Manoj, **C. C. Espaillat**, N. Calvet, A. C. o . Garatti, E. F. van Dishoeck, T. L. Bourke, J. D. Green, C. M. Lisse, P. Klaassen, L. W. Looney, P. Nazari, D. A. Neufeld, J. J. Tobin, S. J. Wolk, G. Anglada, P. Atmagulov, H. Beuther, N. G. C. Brunken, S. Federman, E. Furlan, N. Habel, N. Karnath, H. Linz, J. Muzerolle Page, M. Osorio, R. Pokhrel, R. Rahatgaonkar, W. R. M. Rocha, P. D. Sheehan, K. Slavicinska, T. Stanke, A. M. Stutz, L. Tychoniec, Y.-L. Yang, and W. J. Fischer,
2026, *Astrophysical Journal*, in press.
<https://ui.adsabs.harvard.edu/abs/2025arXiv251215999W>

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Qi, C., D. J. Wilner, and **C. C. Espaillat**,
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<https://ui.adsabs.harvard.edu/abs/2026ApJ...997L..19Q>

‡127. JWST Reveals Carbon-rich Chemistry in a Transitional Disk
*Volz, M.**, **C. C. Espaillat**, *C. V. Pittman**, S. L. Grant, T. Thanathibodee, M. McClure, B. Tabone, N. Calvet, and F. M. Walter,
2026, *Astronomical Journal*, 171, 39.
<https://ui.adsabs.harvard.edu/abs/2026AJ....171...39V>

‡126. Measuring Dust Masses of Protoplanetary Disks in Serpens and L1641/L1647 with ALMA
*Zamudio-Ruvalcaba, L. F.**, **C. C. Espaillat**, Á. Ribas, and E. Macías,
2025, *Astrophysical Journal*, 995, 16.
<https://ui.adsabs.harvard.edu/abs/2025ApJ...995...16Z>

‡125. The ODYSSEUS Survey. Spatial correlation of magnetospheric inclinations points to parsec-scale star-cloud connection
*Pittman, C. V.**, **C. C. Espaillat**, T. Thanathibodee, N. Calvet, L. W. Hartmann, and S. Cabrit,
2025, *Astrophysical Journal Letters*, 994, L57.
<https://ui.adsabs.harvard.edu/abs/2025ApJ...994L..57P>

‡124. The ODYSSEUS Survey. Using Accretion and Stellar Rotation to Reveal the Star—Disk Connection in T Tauri Stars
*Pittman, C. V.**, **C. C. Espaillat**, Z. Zhu, T. Thanathibodee, C. E. Robinson, N. Calvet, and Á. Kóspál,
2025, *Astrophysical Journal*, 993, 181.
<https://ui.adsabs.harvard.edu/abs/2025ApJ...993..181P>

‡123. The ODYSSEUS Survey. Characterizing Magnetospheric Geometries and Hotspot Structures in T Tauri Stars
*Pittman, C. V.**, **C. C. Espaillat**, C. E. Robinson, T. Thanathibodee, S. Lopez, N. Calvet, Z. Zhu, F. M. Walter, *J. Wendeborn**, C. F. Manara, J. Campbell-White, R. Claes, M. Fang, A. Frasca, J. F. Gameiro, M. Gangi, J. Hernández, Á. Kóspál, K. Maucó, J. Muzerolle, M. Siwak, Ł. Tychoniec, and L. Venuti,

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Dartois, E., J. A. Noble, M. K. McClure, J. A. Sturm, T. L. Beck, N. Arulanantham, M. N. Drozdovskaya, **C. C. Espaillat**, D. Harsono, M.-E. Palumbo, Y. J. Pendleton, and K. M. Pontoppidan,
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Roman-Duval, J., W. J. Fischer, A. W. Fullerton, J. Taylor, R. Plesha, C. Proffitt, T. Monroe, T. C. Fischer, A. Aloisi, J.-C. Bouret, C. Britt, N. Calvet, J. K. Carlberg, P. A. Crowther, G. De Rosa, W. V. Dixon, **C. C. Espaillat**, C. J. Evans, A. J. Fox, K. France, M. Garcia, S. W. Fleming, E. M. Frazer, A. I. Gómez de Castro, G. J. Herczeg, S. Hernandez, A. S. Hirschauer, B. L. James, C. M. Johns-Krull, C. Leitherer, S. Lockwood, J. Najita, M. S. Oey, C. Oliveira, T. Pauly, I. N. Reid, A. Riedel, D. R. Rodriguez, D. Sahnou, R. Sankrit, K. R. Sembach, R. Shaw, L. J. Smith, S. T. Sohn, D. Som, L. Úbeda, and D. E. Welty,
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<https://ui.adsabs.harvard.edu/abs/2025ApJ...985..109R>

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Romanova, M. M., **C. C. Espaillat**, *J. Wendeborn**, J.-F. Donati, P. P. Petrov, and R. V. E. Lovelace,
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<https://ui.adsabs.harvard.edu/abs/2025MNRAS.538..480R>

119. A giant planet transiting a 3-Myr protostar with a misaligned disk
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‡116. A Multiwavelength, Multiepoch Monitoring Campaign of Accretion Variability in T Tauri Stars from the ODYSSEUS Survey. III. Optical Spectra
*Wendeborn, J.**, **C. C. Espaillet**, T. Thanathibodee, C. E. Robinson, *C. V. Pittman**, N. Calvet, J. Muzerolle, F. M. Walter, J. Eisloffel, E. Fiorellino, C. F. Manara, Á. Kóspál, P. Ábrahám, R. Claes, E. Rigliaco, L. Venuti, J. Campbell-White, P. McGinnis, M. Gangi, K. Mauco, F. Gameiro, A. Frasca, and Z. Guo, 2024, *Astrophysical Journal*, 972, 100.
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*Wendeborn, J.**, **C. C. Espaillet**, T. Thanathibodee, C. E. Robinson, *C. V. Pittman**, N. Calvet, Á. Kóspál, K. N. Grankin, F. M. Walter, Z. Guo, and J. Eisloffel, 2024, *Astrophysical Journal*, 971, 96.
<https://ui.adsabs.harvard.edu/abs/2024ApJ...971...96W>

‡113. A Multiwavelength, Multiepoch Monitoring Campaign of Accretion Variability in T Tauri Stars from the ODYSSEUS Survey. I. HST Far-UV and Near-UV Spectra
*Wendeborn, J.**, **C. C. Espaillet**, *S. Lopez***, T. Thanathibodee, C. E. Robinson, *C. V. Pittman**, N. Calvet, *N. Flors***, F. M. Walter, Á. Kóspál, K. N. Grankin, I. Mendigutía, H. M. Günther, J. Eisloffel, Z. Guo, K. France, E. Fiorellino, W. J. Fischer, P. Ábrahám, and G. J. Herczeg, 2024, *Astrophysical Journal*, 970, 118.
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‡106. Determining Dust Properties in Protoplanetary Disks: SED-derived Masses and Settling With ALMA
*Rilinger, A.**, **C. Espaillat**, *Z. Xin***, Á. Ribas, E. Macías, and *S. Luetzgen***, 2023, *Astrophysical Journal*, 944, 66.
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*Pittman, C. V.**, **C. C. Espaillat**, C. E. Robinson, *T. Thanathibodee*, N. Calvet, *J. Wendeborn**, J. Hernández, C. F. Manara, F. Walter, P. Abraham, J. M. Alcalá, S. H. P. Alencar, N. Arulanantham, S. Cabrit, J. Eislöffel, E. Fiorellino, K. France, M. Gangi, K. Grankin, G. J. Herczeg, Á. Kóspál, I. Mendigutía, J. Serna, and L. Venuti,
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*Grant, S. L.**, **C. C. Espaillat**, S. Brittain, *C. Scott-Joseph***, and N. Calvet,
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Manara, C. F., A. Frasca, L. Venuti, M. Siwak, G. J. Herczeg, N. Calvet, J. Hernandez, Ł. Tychoniec, M. Gangi, J. M. Alcalá, H. M. J. Boffin, B. Nisini, M. Robberto, C. Briceno, J. Campbell-White, A. Sicilia-Aguilar, P. McGinnis, D. Fedele, Á. Kóspál, P. Ábrahám, J. Alonso-Santiago, S. Antonucci, N. Arulanantham, F. Bacciotti, A. Banzatti, G. Beccari, M. Benisty, K. Biazzo, J. Bouvier, S. Cabrit, A. Caratti o Garatti, D. Coffey, E. Covino, C. Dougados, J. Eislöffel, B. Ercolano, **C. C. Espaillat**, J. Erkal, S. Facchini, M. Fang, E. Fiorellino, W. J. Fischer, K. France, J. F. Gameiro, R. Garcia Lopez, T. Giannini, C. Ginski, K. Grankin, H. M. Günther, L. Hartmann, L. A. Hillenbrand, G. A. J. Hussain, M. M. James, M. Koutoulaki, G. Lodato, K. Maucó, I. Mendigutía, R. Mentel, A. Miotello, R. D. Oudmaijer, E. Rigliaco, G. P. Rosotti, E. Sanchis, P. C. Schneider, L. Spina, B. Stelzer, L. Testi, T. Thanathibodee, J. S. Vink, F. M. Walter, J. P. Williams, and G. Zsidi,

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