

Curriculum Vitæ

Name: David James Wilner
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Education:

1993 Ph.D. University of California at Berkeley, Astronomy
Thesis: *Millimeter Aperture Synthesis Observations of High Mass Star Forming Regions* (Advisor: Wm. J. Welch)
1989 M.A. University of California at Berkeley, Astronomy
1987 A.B. Princeton University, Physics

Positions:

2012– Senior Astrophysicist, Smithsonian Astrophysical Observatory
2010–2023 Associate Director, head of Radio and Geoastronomy Division,
Center for Astrophysics | Harvard & Smithsonian
1998–2020 Lecturer on Astronomy, Harvard University
1998–2012 Astrophysicist, Smithsonian Astrophysical Observatory
1996–1998 NASA Hubble Fellow, Harvard-Smithsonian Center for Astrophysics
1993–1996 CfA Fellow, Harvard-Smithsonian Center for Astrophysics
1987 Summer Research Assistant, National Optical Astronomy Observatories
1986 Summer Researcher, Maria Mitchell Observatory

Research Interests:

Star and planet formation. Protoplanetary disks. Debris disks.
Radio Astronomy. Aperture synthesis observations and techniques.

Publications Summary:

orcid: [0000-0003-1526-7587](https://orcid.org/0000-0003-1526-7587)
420+ refereed papers with 30000+ citations
 h -index = 93 (source: Astrophysics Data System)

Professional Societies:

AAS (American Astronomical Society)
IAU (International Astronomical Union)
URSI (International Union of Radio Science)

Honors and Awards:

2024	Fellow of the American Astronomical Society
2018	NOVA Lecturer, Netherlands
2017	Secretary's Research Prize, Smithsonian Institution
2017	Lyman Spitzer Lecturer, Princeton University
2010	Secretary's Research Prize, Smithsonian Institution
2003	Outstanding Young Alumnus, Moses Brown School, Providence, RI
1992	Klumpke Roberts Prize in Astronomy, University of California at Berkeley
1990-1992	The Berkeley Fellowship, University of California at Berkeley
1987-1990	National Science Foundation Graduate Fellowship
1987	Phi Beta Kappa, Sigma Xi
1984	Manfred Pyka Prize in Physics, Princeton University

Invited Talks, Seminars and Colloquia

2023 Dec	STScI Star and Planet Formation seminar, Baltimore, MD "New Views of Debris Disks"
2023 Oct	Probing the Universe at Higher Resolution: A Celebration of the Science and Leadership of Paul T. P. Ho, Taipei, Taiwan "25 Years of TW Hya at Higher Resolution"
2023 Sep	Workshop on German Opportunites for the ngVLA, Leipzig, Germany "Unveiling Planet Formation with ngVLA"
2022 Oct	CMB-S4 Sources and Transients Working Group Meeting (remote) "Follow-up of CMB-S4 Sources and Transients with the Submillimeter Array"
2021 Aug	The Past, Present and Future of the VLA: Celebrating 40 Years (remote) "New Views of Protoplanetary Disks: VLA to ngVLA"
2020 Jul	Dominion Radio Astronomy Observatory, Penticton, Canada (remote) "The Submillimeter Array: Present and Future"
2020 Mar	SOFIA Science Center, Mountain View, CA "New Views of Debris Disks"
2019 Dec	National OIR Astronomy Research Lab/Steward Observatory, Tucson, AZ "New Views of Debris Disks"
2019 Sep	Crete III – Through Dark Lanes to New Stars, Crete, Greece "Circumstellar Disks: From Crete I to Crete III"
2019 Jun	Radio/Millimeter Astrophysical Frontiers in the Next Decade, Charlottesville, VA "Summary and Final Remarks"
2019 Mar	Planet-Forming Disks: A workshop to honor Antonella Natta, Lake Como, Italy "Debris Disks with ALMA"
2018 Mar	Nederlandse Onderzoekschool Voor Astronomie Lecturer, Netherlands "New Views of Debris Disks with Millimeter Interferometry" (University of Groningen) "New Views of Debris Disks with Millimeter Interferometry" (Radboud University) "New Views of Debris Disks with Millimeter Interferometry" (University of Amsterdam)

- “New Views of Debris Disks with Millimeter Interferometry” (Leiden University)
- 2018 Feb 2018 AAAS Annual Meeting, Austin, TX
“New Views of Planet-Forming Disks with ALMA”
- 2017 Jul Herzberg Institute of Astrophysics, Victoria, Canada
“New Views of Debris Disks with Millimeter Interferometry”
- 2017 Jul Dominion Radio Astronomy Observatory, Penticton, Canada
“New Views of Debris Disks with Millimeter Interferometry”
- 2017 Jun Gordon Research Conference: Origins of Solar Systems, Mt. Holyoke College, MA
“Planet Formation in Action” (Discussion Leader)
- 2017 May Princeton University, Princeton, NJ
“New Views of Planet Forming Disks with Millimeter Interferometry: Solids”
“New Views of Planet Forming Disks with Millimeter Interferometry: Gas”
“New Views of Debris Disks with Millimeter Interferometry”
“Millimeter Interferometry: Progress and Prospects”
- 2016 May Resolving Planet Formation in the era of ALMA and extreme AO, Santiago, Chile
“Conference Summary”
- 2016 May SOFIA Science Center, Mountain View, CA
“New Views of Planet Forming Disks”
- 2016 Feb 2016 AAAS Annual Meeting, Washington, DC
“The Chemistry of Protoplanetary Disks”
- 2016 Jan Next Generation Very Large Array Workshop 2016, Kissimee, FL
“Debris Disks with the VLA and ngVLA”
- 2015 Jun Frontiers of Star Formation, Ann Arbor, MI
“Beyond the Wall: the Outer Disk of TW Hya”
- 2015 May IAU Symposium 314, Atlanta, GA
“ALMA and the Future of Millimeter Imaging Observations”
- 2015 Feb Swinburne University of Technology, Melbourne, Australia
“New Views of Planet-Forming Disks with Millimeter Interferometry”
- 2015 Feb CSIRO Astronomy and Space Science, Sydney, Australia
“New Views of Planet-Forming Disks with Millimeter Interferometry”
- 2014 Nov Wesleyan University, Middletown, CT
“New Views of Planet-Forming Disks”
- 2014 Mar University of Western Ontario, London, ON, Canada
“A New Radio Era in Planet-Forming Disk Studies”
- 2014 Mar Rochester Institute of Technology, Rochester, NY
“A New Radio Era in Planet-Forming Disk Studies”
- 2014 Feb AAAS Annual Meeting, Chicago, IL
“Decoding Dusty Debris Disks”
- 2013 Apr Transformational Science with ALMA: From Dust to Rocks to Planets, Kona, HI
“Concluding Panel Conference Summary”
- 2013 Mar Herzberg Institute of Astrophysics, Victoria, Canada

- “A New Radio Era in Planet-Forming Disk Studies”
- 2012 Mar U. Florida, Gainesville, FL
“Millimeter-wave Insights into Planet Forming Disks around Young Stars”
- 2012 Mar U. Arizona Lunar Planetary Laboratory, Tucson, AZ
“Millimeter-wave Insights into Planet Forming Disks around Young Stars”
- 2012 Feb AAAS Annual Meeting, Vancouver, CA
“Peering into the Birthplaces of Solar Systems”
- 2011 Oct Signposts of Planets conference, NASA Goddard Space Flight Center, Greenbelt, MD
“Submillimeter Imaging of Disks”
- 2011 Jul ETH, Zurich, Switzerland
“Millimeter Interferometry of Protoplanetary Disks: Progress and Prospects”
- 2011 Jul ESO, Garching, Germany
“Millimeter Interferometry of Protoplanetary Disks: Progress and Prospects”
“Multi-wavelength Imaging of Debris Disks around Nearby Stars”
- 2011 Jul MPA, Heidelberg, Germany
“Millimeter Interferometry of Protoplanetary Disks: Progress and Prospects”
- 2011 Mar NASA Goddard Space Flight Center, Greenbelt, MD
“Planet Forming Disks”
- 2011 Jan Extending the Limits of Astrophysical Spectroscopy 2011, Victoria, Canada
“ALMA Early Science and Beyond”
- 2011 Jan 217th AAS Meeting (in Special Sessions), Seattle, WA
“ALMA does Disks: the User Perspective” in Observing with ALMA
“Grain Growth and Substructure in Protoplanetary Disks” in EVLA Early Science
- 2010 Mar Yale University, New Haven, CT
“Planet Forming Disks”
- 2010 Mar University of Michigan, Ann Arbor, MI
“Planet Forming Disks”
- 2009 Dec Boston University, Boston, MA
“Planet Forming Disks”
- 2009 Oct Dense Cores in Dark Clouds LXV, Newport, RI
“Infall and Outflows: Early History”
- 2009 Aug The Dynamics of Disks and Planets, Isaac Newton Institute, Cambridge, UK
“Submillimeter Observations of Protoplanetary Disks”
- 2009 Jul Gordon Research Conference: Origins of Solar Systems, Mt. Holyoke College, MA
“Disk Dissipation: the Submillimeter Perspective”
- 2009 Jun Millimeter and Submillimeter Astronomy at High Angular Resolution, Tapei, Taiwan
“Protoplanetary Disks and Debris Disks”
- 2009 Feb AAAS Annual Meeting, Chicago, IL
“Cosmic Cradle of Life: Protoplanetary Disks”
- 2008 Nov Radio Astronomy Laboratory 50th Anniversary, Berkeley, CA
“Protoplanetary Disks: An Observer’s Perspective”

- 2008 Oct New Light on Young Stars: Spitzer’s View of Circumstellar Disks, Pasadena, CA
“Resolved YSO Disk Studies: Present and Future”
- 2008 Jun MPIfR, Bonn, Germany
“Millimeter Studies of Planet Forming Disks”
- 2008 Jun MPIA, Heidelberg, Germany
“Millimeter Studies of Planet Forming Disks”
- 2008 Jun 212th AAS Meeting (plenary session), St. Louis, MO
“Planet Forming Disks”
- 2008 Mar NRAO, Socorro, NM
“(Sub)Millimeter Studies of Protoplanetary Disks”
- 2007 Dec U.C. Berkeley Radio Astronomy Lab, Berkeley, CA
“Evidence for a Population of High Redshift Submillimeter Galaxies”
- 2007 Dec Caltech, Pasadena, CA
“Protoplanetary Disks: Analogs of the Early Solar System”
- 2007 Sep Astrophysics in the Next Decade: JWST and Concurrent Facilities, Tucson, AZ
“Disks During the Planetary Formation Phase” (moderator)
- 2007 Mar NRAO, Charlottesville, VA
“Protoplanetary Disks: Analogs of the Early Solar System”
- 2006 Nov Science with ALMA, Madrid, Spain
“The ALMA View of Dust Evolution: Making Planets and Decoding Debris”
- 2006 Oct US Square Kilometer Array Consortium, Cambridge, MA
“Cradle of Life”
- 2006 Sep From Dust to Planetesimals, Ringberg, Germany
“Grain Growth in Protoplanetary Disks: The (Sub)Millimeter”
- 2006 Aug Submillimeter Observing Techniques School, Victoira, Canada
“eSMA: the SMA+JCMT+CSO array”
- 2006 Aug Herzberg Institute of Astrophysics, Victoria, Canada
“Protoplanetary Disks”
- 2006 May Harvard-Smithsonian CfA, Cambridge, MA
“Protoplanetary Disks: Analogs of the Early Solar System”
- 2006 Apr U.C. Berkeley, Berkeley, CA
“From Dust to Planets”
- 2006 Mar AbSciCon 2006, Washington, DC
“Radio Observations of Protoplanetary Disks”
- 2006 Feb University of Illinois, Champaign-Urbana, IL
“Protoplanetary Disks”
- 2005 Oct Workshop on Nearby Resolved Debris Disks, STScI, Baltimore, MD
“Resolving Debris Disks with (Sub)Millimeter Interferometry”
- 2005 Sep Revealing the Molecular Universe (Welch Symposium), Berkeley, CA
“Pebbles from Heaven: Radio Interferometry and Planet Formation”
- 2005 Jul Oort Workshop: Protoplanetary Disk Evolution, Leiden, The Netherlands

- “TW Hya: from the Submm to the Centimeter”
- 2005 May Astrobiology and the Origins of Life Conference, McMaster University, Hamilton, CA
“Protoplanetary Disks”
- 2005 Apr University of Maryland, College Park, MD
“Debris Disks around Nearby Stars”
- 2004 Sep Arcetri Observatory, Florence, Italy
“The Submillimeter Array”
- 2004 Sep ESO ALMA Community Day, Garching, Germany
“The Submillimeter Array and Lessons for High Frequencies”
- 2004 Jul 2nd TPF/Darwin Conference, San Diego, CA
“Millimeter/Submillimeter Observations of Young Disks”
- 2004 Jun From Spitzer to Herschel and Beyond Conference, Pasadena, CA
“Dust, Disks, and Planets”
- 2004 Apr SUNY Stony Brook, Stony Brook, NY
“Debris Disks around Nearby Stars”
- 2004 Mar Carnegie DTM, Washington, DC
“Debris Disks around Nearby Stars”
- 2003 Dec University of Illinois, Champaign-Urbana, IL
“Debris Disks around Nearby Stars”
- 2003 Dec University of Rochester, Rochester, NY
“Debris Disks around Nearby Stars”
- 2003 Jul IAU Symposium 221, Sydney, Australia
“High Angular Resolution Studies of Disks– the Millimetre”
- 2002 Nov Institute for Astronomy, Honolulu, HI
“Debris Disks and Unseen Planets”
- 2002 Sep University of Calgary, Canada
“The Debris Disk–Planet Connection”
- 2002 Jun Academia Sinica Star Formation Workshop, Taipei, Taiwan
“Debris Disks and the Submillimeter Array”
- 2002 Jan Arcetri Observatory, Florence, Italy
“Dusty Disks around Young Stars”
- 2001 Jul GSMT/ALMA Synergies Workshop
“Disks around Young Stellar Objects”
- 2001 May National Radio Astronomy Observatory, Socorro, NM
“Dusty Disks around Young Stars”
- 2001 Apr Origins of Stars and Planets , ESO, Garching, Germany
“VLA studies of disks around T Tauri stars”
- 2001 Mar Young Stars Near Earth Workshop, NASA Ames, Mountain View, CA
“Dust Disks: Millimeter and Radio Observations”
- 2001 Feb University of California, Santa Cruz, CA
“Dusty Disks around Young Stars”

- 2001 Feb Herschel Science Workshop, San Diego, CA
 “The Submillimeter Array and FIRST/Herschel”
- 2001 Feb Goddard Space Flight Center, Greenbelt, MD
 “Probing High Redshifts with the Submillimeter Array”
- 2000 Jun UMass/INAOE Conference on Deep Millimeter Surveys, Amherst, MA
 ”Prospects with the Submillimeter Array”
- 2000 Jun Arcetri Workshop on High-Mass Star Formation, Volterra, Italy
 “High Mass Star Formation in the W49 Region”
- 2000 May First Generations of Cosmic Structures, Harvard University, Cambridge, MA
 ”Probing High Redshifts with the Submillimeter Array”
- 2000 Feb Academia Sinica, Taipei, Taiwan
 “Protoplanetary Disks”
 “Millimeter Observations of High Redshift Galaxies”
- 1999 Jul MRAO, Cambridge, UK
 “The SMA Project”
- 1999 Jul 14th UCL Conference, Windsor, UK
 “Millimeter Studies of APM08279 at $z=3.91$ ”
- 1998 Dec Caltech, Pasadena, CA
 “Tests of Star Formation Theories”
- 1998 Oct CITA Workshop on Gravitational Collapse, Toronto, Canada
 “Probing the Collapse Zone of B335”
- 1998 Sep 3rd Koln-Zermatt Symposium, Switzerland
 “The SMA Project”
- 1998 Mar University of California, Santa Cruz, CA
 “The Formation and Evolution of Protostellar Disks”
- 1998 Feb NASA HQ, Washington, DC
 “Highlights of Submillimeter Astronomy”
- 1997 Dec Harvard University, Cambridge, MA
 “Star Formation at High Angular Resolution”
- 1997 Jul Center for Star Formation Studies Workshop, Santa Cruz, CA
 “Imaging HL Tau: the VLA Experience”
- 1997 Apr University of Michigan, Ann Arbor, MI
 “Resolving Dusty Disks around Young Stars”
- 1997 Mar NRAO/NRO Atacama Array Workshop, Tokyo, Japan
 “Imaging HL Tau: the VLA Experience”
- 1997 Feb University of Massachusetts, Amherst, MA
 “Protostars: The Young and the Restless”
- 1997 Feb University of Iowa, Iowa City, IA
 “Protostars: The Young and the Restless”
- 1997 Feb University of Pennsylvania, Philadelphia, PA
 “The Formation and Evolution of Protostellar Disks”

- 1996 Jun Arcetri Observatory, Florence, Italy
 “The Formation and Evolution of Protostellar Disks”
- 1996 Mar University of Arizona, Tucson, AZ
 “Star Formation at High Angular Resolution”
- 1995 Dec University of Massachusetts, Amherst, MA
 “Star Formation at High Angular Resolution”
- 1995 Jul NASA/SAO Workshop on Star and Planet Formation, ASIAA, Taiwan
 “Infall Motions in Star Forming Regions”
- 1995 Feb University of California, Berkeley, CA
 “Infall Motions in Star Forming Regions”
- 1995 Jan Massachusetts Institute of Technology, Cambridge, MA
 “Probing Massive Star Formation in Molecular Clouds”
- 1995 Jan National Radio Science Meeting, Boulder, CO
 “Missing Short Spacings at Millimeter Wavelengths”
- 1994 Mar University of Arizona, Tucson, AZ
 “Probing Massive Star Formation in Molecular Clouds”

Selected Contributed Talks

- 2019 May New Horizons in Planetary Systems, Victoria, Canada
 “ALMA Reveals Two Populations of Planetesimal Inclinations in the β Pic Debris Disk”
- 2018 Jul Astrochemistry Past, Present and Future, Pasadena, CA
 “A Molecular Reconnaissance of the β Pictoris Debris Disk”
- 2017 Jan 229th AAS meeting, Grapevine, TX
 “ALMA Measurements of Circumstellar Material in the GQ Lup System”
- 2016 Jan 227th AAS meeting, Kissimmee, FL
 “The Epsilon Eridani System Resolved by Millimeter Interferometry”
- 2013 Dec Exoplanets and Disks: Their Formation and Diversity II, Kona, HI
 “Imaging the CO Snow Line in the TW Hya Disk”
- 2012 Dec New Trends in Radio Astronomy in the ALMA Era, Hakone, Japan
 “Resolved Millimeter Emission Belts in the β Pic and AU Mic Debris Disks”
- 2007 Jun Transformational Science with ALMA, Charlottesville, VA
 “A Resolved Molecular Gas Disk around 49 Cet”
- 2006 Jan 207th AAS meeting, Washington, DC
 “A Keplerian Disk around the Herbig Ae Star HD169142”

Publication List

(a) Refereed Publications

426. Crotts, K.A., Matthews, B.C., Duchene, G., Esposito, T.M. Dong, R., Hom, J., Openheimer, R., Rice, M., Wolff, S.G., Chen, C.H., Do O, C.R., Kalas, P., Lewis, B.L., Weinberger, A.J., Wilner, D.J., Ammons, M., Arriaga, P., De Rosa, R.J., Debes, J.H., Fitzgerlad, M.P., Gonzales, E.C., Hines, D.C., Hinley, S., Hughes, A.M., Kolokolova, L., Lee, E., Mazoyer, J., Metchev, S., Millar-Blanchaer, M.A., Nielsen, E.L., Patience, J., Perrin, M.D., Pueyo, L., Rantakyro, F.T., Ren, B.B., Schneider, G., Soummer, R., Stark, C.C. 2024, “A Uniform Analysis of Debris Disks with the Gemini Planet Imager I: An Empirical Search for Perturbations from Planetary Companions in Polarized Light Images”, *The Astrophysical Journal*, **961**, 245
430. Miley, J.M., Carpenter, J., Booth, R., Jennings, J., Haworth, T., Vioque, M., Andrews, S., Wilner, D., Benisty, M., Huang, J., Perez, L., Guzman, V., Ricci, L., Isella, A. 2024, “High Resolution ALMA observations of Compact Disks in the Wide Binary System Sz 65 and Sz 66”, *Astronomy & Astrophysics*, **682**, A55
425. Guerra-Alvarado, O., van der Marel, N., Di Francesco, J., Segura-Cox, D.M., Looney, L.W., Tobin, J.L., Cox, E.G., Sheehan, P.D., Wilner, D.J., Macias, E., Carrasco-Gonzalez, C. 2024, “IRAS4A1: Multi-wavelength continuum analysis of a very flared Class 0 disk”, *Astronomy & Astrophysics*, **681**, 82
424. Waggoner, A.R., Cleeves, L.I., Loomis, R.A., Aikawa, Y., Bergner, J.B., Booth, A.S., Calahan, J.K., Cataldi, G., Law, C.J., Le Gal, R., Oberg, K.I., Teague, R., Wilner, D.J. 2023, “MAPS: Constraining Serendipitous Time Variability in Protoplanetary Disk Molecular Ion Emission”, *The Astrophysical Journal*, **956**, 103
423. Galloway-Sprietsma, M., Bae, J., Teague, R., Benisty, M., Facchini, S., Aikawa, Y., Alarcon, F., Andrews, S.M., Bergin, E., Cataldi, G., Cleeves, L.I., Czekala, I., Guzman, V.V., Huang, J., Law, C.J., Le Gal, R., Liu, Y., Long, F., Menard, F., Oberg, K.I., Walsh, C., Wilner, D.J. 2023, “Molecules with ALMA at Planet-forming Scales (MAPS). Complex Kinematics in the AS 209 Disk Induced by a Forming Planet and Disk Winds”, *The Astrophysical Journal*, **950**, 147
422. Long, F., Ren, B.B., Wallack, N.L., Harsano, D., Herczeg, G.J., Pinilla, P., Mawet, D., Liu, M.C., Andrews, S.M., Bai, X.-N., Cabrit, S., Cieza, L.A., Johnstone, D., Leisenring, J.M., Lodato, G., Liu, Y., Manara, C.F., Mulders, G.D., Ragusa, E., Sallum, S., Shi, Y., Tazzari, M., Uyama, T., Wagner, K., Wilner, D.J., Zuan, J.W. 2023, “A Large Double-ring Disk around the Taurus M Dwarf J04124068+2438157”, *The Astrophysical Journal*, **949**, 27
421. Law, C.J., Teague, R., Oberg, K.I., Rich, E.A., Andrews, S.M., Bae, J., Benisty, M., Facchini, S., Flaherty, K., Isella, A., Jin, S., Hashimoto, J., Huang, J., Loomis, R.A., Long, F., Munoz-Romero, C.E., Paneque-Carreño, T., Perez, L.M., Qi, C., Schwarz, K.R., Stadler, J., Tsukagoshi, T., Wilner, D.J., van der Plas, G. 2023, “Mapping Protoplanetary Disk Vertical Structure with CO Isotopologue Line Emission”, *The Astrophysical Journal*, **948**, 60
420. Pegues, J., Oberg, K.I., Qi, C., Andrews, S.M., Huang, J., Law, C.J., Le Gal, R.,

- Matra, L., Wilner D.J. 2023, “An SMA Survey of Chemistry in Disks around Herbig Ae Stars”, *The Astrophysical Journal*, **948**, 57
419. Schwarz, K.R., Najita, J., Bergner, J., Carr, J., Tielens, A., Bergin, E.A., Wilner, D., Leisawitz, D., Walker, C.K. 2023, “Protoplanetary Disk Science with the Orbiting Astronomical Satellite Investigating Stellar Systems (OASIS) Observatory”, *Space Science Reviews*, **219**, 12
418. Calahan, J.K., Bergin, E.A., Bosman, A.D., Rich, E.A., Andrews, S.M., Bergner, J.B., Cleeves, L.I., Guzman, V.V., Huang, J., Ilee, J.D., Law, C.J., Le Gal, R., Oberg, K.I., Teague, R., Walsh, C., Wilner, D.J., Zhang, K. 2022, “UV-Driven Chemistry as a Signpost of Late-stage Planet Formation”, *Nature Astronomy*, **7**, 49
417. Munoz-Romero, C.E., Oberg, K.I., Law, C.J., Teague, R., Aikawa, Y., Bergner, J.B., Wilner, D.J., Huang, J., Guzman, V.V., Cleeves, L.I. 2023, “Cold Deuterium Fractionation in the Nearest Planet-Forming Disk” *The Astrophysical Journal*, **943**, 35
416. Bublitz, J., Kastner, J.H., Hily-Blant, P., Forveille, T., Santander-Garia, M., Alcolea, J., Bujarrabal, V., Wilner, D.J., Montez, R., Aleman, I. 2022, “Mapping NGC 7027 in New Light: CO+ and HCO+ Emission Reveal its Photon and X-ray Dominated Regions”, *The Astrophysical Journal*, **942**, 14
415. Howard, W.S., MacGregor, M.A., Osten, R., Forbrich, J., Cranmer, S.R., Tristan, I., Weinberger, A.J., Youngblood, A., Barclay, T., Loyd, R.O. Parke, Shkolnik, E.L., Zic, A., Wilner, D.J. 2022, “The Mouse that Squeaked: A Small Flare from Proxima Cen Observed in the Millimeter, Optical and Soft X-ray with *Chandra* and ALMA”, *The Astrophysical Journal*, **938**, 103
414. Pinilla, P., Benisty, M., Kurtovic, N.T., Bae, J., Dong, R., Zhu, Z., Andrews, S., Carpenter, J., Ginski, C., Huang, J., Isella, A., Perez, L., Ricci, L., Rosotti, G., Villenave, M., Wilner, D. 2022, “The Distributions of Gas, Small-, and Large-grains in the LkH α Disk Trace a Young Planetary System”, *Astronomy & Astrophysics*, **665**, 128
413. Long, F., Andrews, S.M., Zhang, S., Qi, C., Benisty, M., Fachini, S., Isella, A., Wilner, D.J., Boe, J., Huang, J., Loomis, R.A., Oberg, K.I., Zhu, Z. 2022, “ALMA Detection of Dust Trapping around Lagrangian Points in the LkCa 15 Disk”, *The Astrophysical Journal*, **937**, 1
412. Teague, R., Bae, J., Andrews, S.M., Bergin, E.A., Benisty, M., Facchini, S., Huang, J., Longarini, C., Wilner, D. 2022, “Mapping the Complex Kinematic Substructure in the TW Hya Disk”, *The Astrophysical Journal*, **936**, 163
411. Rich, E.A., Monnier, J.D., Aarnio, A., Laws, A.S.E., Setterholm, B.R., Wilner, D.J., Calvet, N., Harries, T., Miller, C., Davies, C.L., Adams, F.C., Andrews, S.M., Bae, J., Espaillat, C., Greenbaum, A., Hinkley, S., Kraus, S., Hartmann, L., Isella, A., McClure, M., Oppenheimer, R., Perez, L.M., Zhu, Z. 2022, “Gemini-LIGHTS: Herbig Ae/Be and massive T-Tauri protoplanetary disks imaged with Gemini Planet Imager”, *The Astronomical Journal*, **164**, 109
410. Sullivan, D.M., Wilner, D.J., Matra, L., Wyatt, M.C., Andrews, S.M., MacGregor,

- M.A., Matthews, B. 2022, “An ALMA 1.3 millimeter Search for Debris Disks around Solar-type Stars in the Pleiades”, *The Astronomical Journal*, **164**, 100
409. Vizgan, D., Hughes, A.M., Carter, E.S., Flaherty, K.M., Pan, M., Chiang, E., Schilichting, H., Wilner, D.J., Andrews, S.M., Carpenter, J.C., Moor, A. 2022, “Multiwavelength Vertical Structure in the AU Mic Debris Disk: Characterizing the Collisional Cascade”, *The Astrophysical Journal*, **935**, 131
408. Bae, J., Teague, R., Andrews, S.M., Benisty, M., Facchini, S., Galloway-Sprietsma, M., Loomis, R.A., Aikawa, Y., Alarcon, F., Bergin, E., Bergner, J.B., Booth, A.S., Cataldi, G., Cleeves, L.I., Guzman, V.V., Huang, J., Ilee, J.D., Kurtovic, N.T., Law, C.J., Le Gal, R., Liu, Y., Long, F., Menard, F., Oberg, K.I., Perez, L.M., Qi, C., Schwarz, K.R., Sierra, A., Walsh, C., Wilner, D.J., Zhang, K. 2022, “Molecules with ALMA at Planet-forming Scales (MAPS). XXI. A Circumplanetary Disk Candidate in Molecular Line Emission in the AS 209 Disk”, *The Astrophysical Journal*, **934**, L20
407. Law, C.J., Crystian, S., Teague, R., Oberg, K.I., Rich, E.A., Andrews, S.M., Bae, J., Flaherty, K., Guzman, V.V., Huang, J., Ilee, J.D., Kastner, J.H., Loomis, R.A., Long, F., Perez, L.M., Perez, S., Qi, C., Rosotti, G.P., Ruiz-Rodriguez, D., Tsukagoshi, T., Wilner, D.J. 2022, “CO Line Emission Surfaces and Vertical Structure in Mid-Inclination Protoplanetary Disks”, *The Astrophysical Journal*, **932**, 114
406. Crotts, K.A., Draper, Z.H., Matthews, B.C., Duchene, G., Esposito, T.M., Wilner, D., Mazoyer, J., Padgett, D., Kalas, P., Stapelfeldt, K. 2022, “A Multi-wavelength Study of the Highly Asymmetrical Debris Disk around HD 111520”, *The Astrophysical Journal*, **932**, 23
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1. Wilner, D.J. 1986, “Period Revision and Refinement for V960 Aql”, *Journal of the AAVSO* **15**, no. 2, 88

(b) Technical Memos

- Wilner, D., ed., 2017 “Science with the wideband Submillimeter Array: A Strategy for the Decade 2017–2027”, Submillimeter Array Technical Memo #165
- Katz, C., Petitpas, G., Gurwell, M., Peck, A., Wilner, D. 2008 “Project tracking at the Submillimeter Array: from proposals to publication”, Proceedings of the SPIE, 7016
- Wilner, D., Gurwell, M., Ho, P. 2000 “Requirements for Initial SMA Science Observations”, Submillimeter Array Technical Memo #142
- Wilner, D.J. 1999 “SMA Synthesized Beam Characteristics”, Submillimeter Array Technical Memo #131

Wilner, D.J. 1998 “Polarization with the SMA: Workshop Summary”, Submillimeter Array Technical Memo #129

Wilner, D.J. 1998 “What is the Expected Sensitivity of the SMA?”, Submillimeter Array Technical Memo #125

Wilner, D.J. 1994 “Test of the Homogeneous array concept using the Hat Creek Array”, BIMA Memo #35

(c) Books

Wilner, D.J, editor, proceedings of Joint Discussion 9 of the XXXIVth IAU General Assembly on *Cold Gas and Dust at High Redshift*, 2002, in Vol. 12 of Highlights of Astronomy (San Francisco: ASP)

Advisory Committees and Service

- Internal:

CfA Radio and Geoastronomy Division Associate Director/Chair, 2010–2023
Submillimeter Array Postdoctoral Fellow Selection Committee, 2003–2010, 2019–2021
(chair 2003–2010)
Submillimeter Array Steering Committee, 2006–2022
CfA Radio and Geoastronomy Division Postdoctoral Liason, 2008–2010
Smithsonian Institution Research Endowment Fund Review Panel, 2007
CfA Postdoctoral Fellow Selection Committee, 2006–2007 (chair 2007)
CfA Strategic Science Planning Committee, 2005–2006
Submillimeter Array Time Allocation Committee, 2003–2010 (chair 2003–2006)
CfA Prize Committee, 2003–2006
CfA Colloquium Committee, 2001–2002 (co-chair)

- External:

Large Millimeter Telescope Science Operations Review, 2023
ALMA Cycle 10 Proposal Review Committee (chair), 2023–
AAS Annie Jump Cannon Award Committee, 2022–2023
NRAO ngVLA Science Advisory Council, 2016– (co-chair 2022–)
Green Bank Observatory NSF Program Plan Review Panel (chair), 2021
Large Millimeter Telescope US Community Proposal Review, 2021–
Large Millimeter Telescope US Community Access advisory committee, 2021
AAS Van Biesbroeck Prize Committee, 2015–2017
Common Astronomy Software Applications Users Committee, 2014–2017 (chair 2014)
NRAO *Common Astronomy Software Applications* Review Committee, Socorro, NM, 2013
Astronomy Board of the Lorentz Center, Leiden 2012–2016
Jansky Fellowship Selection Committee, 2012, 2013
Hubble Fellowship Selection Committee, 2011
ALMA North American Science Advisory Committee, 2009–2012
Astro2010: Radio, Millimeter and Submillimeter from the Ground Panel, 2009–2010
NRAO Users Committee, 2009–2012 (co-chair, 2012)
Terrestrial Planet Finder Interferometer Science Working Group, 2005–2007
NRAO/Haystack Scientific Future of VLBI Committee, 2003–2004
Atacama Large Millimeter Array Science Advisory Committee, 2002–2003
Square Kilometer Array Science Advisory Committee, 2001–2005
AAS Participant in SET Congressional Visits Day, 2000, 2004
GSMT Star and Planet Formation Working Group, 2000–2001

Refereeing Activities

Referee papers for major Astronomy journals (typically 3 per year)
Proposal Reviewer for NSF Research Infrastructure, 2023
Proposal Reviewer for European Research Council Consolidator Grant, 2017, 2023
External Reviewer for JWST Cycle 2, 2023
Reviewer for NASA Postdoctoral Program, 2007, 2009, 2013, 2014, 2020, 2022
Proposal Reviewer for Flemish Interuniversity Council (VLIR), 2022
Proposal Reviewer for RCSA Cottrel Scholar Award, 2016, 2021
Panel member, NASA SOFIA Cycle 9 Time Allocation Committee, 2020
Proposal Reviewer for European Research Council Starting Grants, 2019, 2020
Panel chair for NASA Exoplanet Research Program (XRP) Proposal Review, 2019
Proposal Reviewer for Knut and Alice Wallenberg Foundation, 2018
Reviewer for Development Strategic Studies for ALMA Science Sustainability, 2017
Proposal Reviewer for NSF Mid-Scale Instrumentation Program, 2016
Proposal Reviewer for Netherlands Organization for Scientific Research (NWO), 2014, 2018
Panel member for NSF ATI Submillimeter Proposal Review, 2014
Reviewer for Chilean ALMA-CONICYT proposals, 2013
Combined Array for Research in Millimeter-wave Astronomy, Time Allocation Committee, 2012
Panel member, NOAO Time Allocation Committee, 2011,2013
Scientific Assessor, Atacama Large Millimeter Array, Cycles 0,1 and 2, 2011–2014
Proposal Reviewer for Japan Society for the Promotion of Science, 2010
Proposal Reviewer for NSF Astronomy Grants Program, 2009
Proposal Reviewer for NSF International Research Fellowship Program, 2009
Proposal Reviewer for Agence Nationale de la Recherche, Programme blanc 2007, 2008
Panel member, Hubble Space Telescope Cycle 16, 2007
Proposal Referee for Subaru Telescope, 2005
Reviewer for NSF University Radio Observatories Program, 2005, 2008
ASIAA Submillimeter Array Time Allocation Committee, 2005–2008
Reviewer for NRAO ALMA Software Requirements, 2000
Proposal Referee for Berkeley-Illinois-Maryland-Association, 2000–2002
Proposal Referee for NRAO Green Bank Telescope, 2000–2004
Proposal Referee for NRAO 12 meter telescope, 1999–2000
CfA Optical and Infrared Time Allocation Committee, 1999, 2001
Reviewer for NASA Origins of Solar Systems Program, 1998-2000, 02, 03, 05, 07, 09, 10
Proposal Referee for NRAO Very Large Array, 1998–2001

Responsibilities for Conferences

SOC member, Probing the Universe at Higher Resolution: A Celebration of the Science and Leadership of Paul T. P. Ho., Taipei, Taiwan, 2023

SOC member, 2023 Submillimeter Array Interferometry School, Cambridge, MA, 2023
 SOC member, Computational Astrophysics in the ngVLA Era, New York, NY, 2022
 SOC member, 2022 Submillimeter Array Interferometry School (remote), 2022
 SOC member, 2021 Submillimeter Array Interferometry School (remote), 2021
 SOC member, 2020 Submillimeter Array Interferometry School, Hilo, HI, 2020
 SOC member, Science with the Submillimeter Array: Present and Future, Taipei, Taiwan, 2019
 SOC member, Radio/Millimeter Astrophysical Frontiers, Charlottesville, VA, 2019
 SOC chair, 231st AAS Meeting Special Session “Science with the wideband SMA”, 2018
 SOC chair, Developing the ngVLA Science Program Workshop, Socorro, NM, 2017
 SOC co-chair, SMA Science in the Next Decade, Taipei, Taiwan, 2016
 SOC member, U.S. Radio/Millimeter/Submm Science Futures in the 2020s, Chicago, IL, 2015
 SOC member, The Submillimeter Array: First Decade of Discovery, Cambridge, MA, 2014
 SOC member, Exoplanets and Disks: Their Formation and Diversity II, Kona, HI, 2013
 SOC member, Dust Growth in Star & Planet Forming Environments, Heidelberg, Germany, 2013
 SOC member, IAUS 299: Formation and Evolution of Planetary Systems, Victoria, BC, 2013
 SOC member, NAASC 2013 Workshop: From Dust to Rocks to Planets, Kona, HI, 2013
 SOC member, NAASC 2012 Workshop: Outflows, Winds and Jets, Charlottesville, VA, 2012
 SOC member, ALMA: Extending the Limits of Astrophysical Spectroscopy, Victoria, BC, 2010
 SOC chair, 215th AAS Meeting Special Session “Highlights from the Submillimeter Array”, 2010
 SOC member, Dense Cores in Dark Clouds LXV, Newport, RI, 2009
 SOC member, Millimeter and Submm Astronomy at High Angular Resolution, Taiwan, 2009
 SOC chair, LOC member, CfA SMA Science Symposium, 2009
 SOC member, eSMA Workshop, Leiden Observatory, 2007
 SOC chair, 207th AAS Meeting Special Session “Science With the Submillimeter Array”, 2006
 SOC member, Submillimeter Astronomy in the era of the SMA, Harvard University, 2005
 SOC member, CfA Star and Planet Formation Symposium, 2004
 SOC member, Taiwan Summer Star Formation Workshop, 2002
 SOC chair, XXIVth IAU General Assembly JD9 on Cold Gas and Dust at High Redshift, 2000

Educational Activities and Outreach

- Harvard University Courses
 - Ay 191 (Astrophysics Laboratory, Prof. Thaddeus): 9 semesters, 1997-2007
 arrange for student radio astronomy projects with the VLA and SMA, in which students plan observations, take data, perform calibrations, interpret results
 - Ay 225 (Formation of Stars and Planets), Spring 2008
 responsible for full course content, lectures, problem sets
 - Ay 201b (Interstellar Medium), Spring 2009
 two guest lectures on the formation of stars and planets
- Summer Schools and On-line Lectures

- 19th Synthesis Imaging Workshop (remote), NSF/AUI/NRAO/NAASC, 2023
 “Basic Imaging”
 Submillimeter Array Interferometry School, Cambridge, MA, 2023
 “Introduction to Radio Astronomy”
 “Imaging and Deconvolution”
- 18th Synthesis Imaging Workshop (remote), NRAO/ALMA/AUI/NSF, 2022
 “Basic Imaging”
 Submillimeter Array Interferometry School (remote), 2022
 “Imaging and Deconvolution”
- Submillimeter Array Interferometry School (remote), 2021
 “Imaging and Deconvolution”
- 17th Synthesis Imaging Workshop (remote), NRAO/ALMA/AUI/NSF, 2020
 “Imaging and Deconvolution”
 Submillimeter Array Interferometry School, Hilo, HI, 2020
 “Imaging and Deconvolution”
- 16th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2018
 “Imaging and Deconvolution”
- 15th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2016
 “Imaging and Deconvolution”
- ALMA Summer School, DRAO, Penticton, 2015
 “Imaging and Deconvolution in Millimeter Interferometry”
- Australian National Institute for Theoretical Astrophysics, 2015
 “Radio Astronomy and Interferometry Fundamentals”
 “Imaging and Deconvolution in Radio Interferometry”
- 14th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2014
 “Imaging and Deconvolution”
- Introduction to Astronomical Instrumentation School, Dunlap Institute, Toronto, 2013
 “Radio Astronomy Fundamentals, Interferometry, and ALMA”
- 13th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2012
 “Imaging and Deconvolution”
- 12th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2010
 “Imaging and Deconvolution”
- Observing with ALMA: A Workshop, McMaster University, 2009
 “Imaging and Deconvolution in Interferometry”
- 11th Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2008
 “Imaging and Deconvolution”
- Submillimeter Observing Techniques School, Herzberg Institute of Astrophysics, 2006
 “Imaging and Deconvolution in Interferometry”
- Postdoctoral Mentorship:
 - Joshua Lovell, SMA Postdoctoral Fellow, 2022 –
 - Feng Long, SMA Postdoctoral Fellow, 2019 – 2022
 - Richard Teague, SMA Postdoctoral Fellow, 2019 – 2022
 - Luca Matrà, SMA Postdoctoral Fellow, 2017 – 2020
 - Ilsadora Cleaves, NASA Hubble Fellow, 2015 – 2018
 - Charles (Chat) Hull, NRAO Jansky Fellow, 2014 – 2017

- Luca Ricci, SMA Postdoctoral Fellow, 2014 – 2016
- Joanna Brown, SMA Postdoctoral Fellow, 2010 – 2013
- Catherine Espaillat, NSF A&A Fellow, 2009 – 2012, NASA Sagan Fellow 2012 – 2013
- Karin Öberg, NASA Hubble Fellow, 2009 – 2012
- Sean Andrews, NASA Hubble Fellow 2007 – 2010
- Graduate Student Supervision:
 - Meredith MacGregor, Harvard University, 2011 Sep – 2017 May
Thesis: *Millimeter Studies of Nearby Debris Disks*
 - Junko Ueda (U. Tokyo), SAO Predoctoral Fellow, advisor D. Iono, 2011 Sep – 2013 Mar
Thesis: *Galaxy Interactions and Evolution*
 - A. Meredith Hughes, Harvard University, 2005 Oct – 2010 May
Thesis: *Circumstellar Disk Structure and Evolution through Resolved Submillimeter Observations*
awarded Harvard University Department of Astronomy Fireman Prize (best Ph.D. thesis)
 - Jeff Wagg (INAOE), SAO Predoctoral Fellow, advisor D. Hughes, 2005 Jan – 2006 Jan
Thesis: *Selected Optical-to-Radio Observations of the Evolution of Massive Galaxies and Structure Formation in the Early Universe*
“mencion honorifica” for best doctoral thesis in Mexican astronomy
 - Daniel W.A. Harvey, Harvard University, 1999 Jun – 2003 Aug
Thesis: *Measuring the Density Structure of Star-Forming Dense Cores*
 - Graduate Student Ph.D. Thesis Committees:
 - Carlos Munoz Romero, Harvard University, advisor K. Oberg, 2021 –
 - Alexia Simon, Harvard University, advisor K. Oberg, 2021 –
 - Charles Law, Harvard University, advisor K. Oberg, 2020 – 2023
 - Ellen Price, Harvard University, advisor K. Oberg, 2019 – 2021
 - Jamila Pegues, Harvard University, advisor K. Oberg, 2019 – 2021
 - Anjali Tripathi, Harvard University, advisor S. Andrews, 2015 – 2018
 - Dawn Graninger, Harvard University, advisor K. Oberg, 2015 – 2017
 - Robert Harris, Harvard University, advisor S. Andrews, 2011 – 2013
 - Diego Munoz, Harvard University, advisor L. Hernquist, 2010 – 2013
 - Baobab Liu (National Taiwan University), SAO Predoctoral Fellow, advisor P. Ho., 2010 – 2012
 - Olja Panic, Leiden University, advisors M. Hogerheijde and E. van Dishoeck, 2009
 - Ya-Wen Tang, National Taiwan University, advisor P. Ho, 2009
 - Josh Younger, Harvard University, advisors G. Fazio and L. Hernquist, 2007 – 2009
 - Sarah Ragan, University of Michigan, advisor E. Bergin, 2006 – 2009
 - Scott Schnee, Harvard University, advisor A. Goodman, 2005 – 2006
 - Paula Texiera (Universidade de Lisboa), SAO Predoctoral Fellow, advisor C. Lada, 2004 – 2008
 - Antonio Crapsi (Universita di Firenze), SAO Predoctoral Fellow, advisor P. Myers, 2003 – 2004
 - Daisuke Iono (University of Massachusetts), SAO Predoctoral Fellow, advisor P. Ho, 2003 – 2004

- Undergraduate Student Supervision:
 - Karl Nicholson (Trinity College Dublin), 2023 September– 2024 January
 - Vladislav Ovcharenko (Trinity College Dublin), 2022 September– 2023 January
 - Devin Sullivan (Harvard Senior Thesis), 2020 June – 2021 September
 - Peyton Benac (Harvard University), 2020 June – August
 - Aaswath Raman (Harvard University), 2005 June – August
 - Shawn O’Brien (Notre Dame, SAO Summer Intern), 2001 June – August
 - Tyler Wood (Harvard Junior Tutorial), 1999 June – 2000 May
 - Beth Lindsey (Bryn Mawr, SAO Summer Intern), 1998 June – August
- Public Lectures and related Outreach:
 - 2019 Sep Cape Cod Astronomical Society , South Yarmouth, MA
“New Eyes on Planet Formation”
 - 2017 Dec Bradley Observatory, Agnes Scott College, Decatur, GA
“Exploring Planet Formation with ALMA”
 - 2015 Feb Swinburne University of Technology, Melbourne, Australia
“Planet Formation through Radio Eyes”
 - 2012 appearance in PBS television documentary
“Into Deepest Space: The Birth of the ALMA Observatory”
 - 2007 Mar Harvard-Smithsonian CfA, Observatory Night, Cambridge, MA
“From Dust to Planets”
 - 2002 Dec Bradley Observatory, Agnes Scott College, Decatur, GA
“The Search for Other Earths”