Curriculum Vitæ

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Personal: born August 14, 1965, Fall River, MA

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:

1998–	Astrophysicist, Smithsonian Astrophysical Observatory and Lecturer on Astronomy, Harvard University
1996–1998	Hubble Fellow, Harvard-Smithsonian Center for Astrophysics
1993–1996	Center Fellow, Harvard-Smithsonian Center for Astrophysics
1988–1993	Graduate Student Researcher, University of California at Berkeley
1987–1988	Graduate Student Instructor, University of California at Berkeley
1987	Summer Research Assistant, National Optical Astronomy Observatories
1986	Summer Researcher, Maria Mitchell Observatory

Professional Societies:

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

Research Interests:

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

Honors and Awards:

2003	Outstanding Young Alumnus, Moses Brown School, Providence, RI
1996	Hubble Fellowship, NASA
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 (1998 June–)**

1998 Sep 3rd Koln-Zermatt Symposium, Switzerland
"The SMA Project'

1998 Oct CITA Workshop on Gravitational Collapse, Toronto, Canada
"Probing the Collapse Zone of B335"

1998 Dec Caltech, Pasadena, CA
"Tests of Star Formation Theories"

1999 Jul 14th UCL Conference, Windsor, UK
"Millimeter Studies of APM08279 at z=3.91"

1999 Jul MRAO, Cambridge, UK
"The SMA Project"

2000 Feb Academia Sinica, Taipei, Taiwan
"Protoplanetary Disks"
"Millimeter Observations of High Redshift Galaxies"

2000 May First Generations of Cosmic Structures, Harvard University, Cambridge, MA
"Probing High Redshifts with the Submillimeter Array"

2000 Jun Arcetri Workshop on High-Mass Star Formation, Volterra, Italy
"High Mass Star Formation in the W49 Region"

2000 Jun UMass/INAOE Conference on Deep Millimeter Surveys, Amherst, MA
"Prospects with the Submillimeter Array"

2001 Feb Goddard Space Flight Center, Greenbelt, MD
"Probing High Redshifts with the Submillimeter Array"

2001 Feb Herschel Science Workshop, San Diego, CA
"The Submillimeter Array and FIRST/Herschel"

2001 Feb University of California, Santa Cruz, CA
"Dusty Disks around Young Stars"

2001 Mar Young Stars Near Earth Workshop, NASA Ames, Mountain View, CA
"Dust Disks: Millimeter and Radio Observations"

2001 Apr Origins of Stars and Planets , ESO, Garching, Germany
"VLA studies of disks around T Tauri stars"

2001 May National Radio Astronomy Observatory, Socorro, NM
"Dusty Disks around Young Stars"

2001 Jul GSMT/ALMA Synergies Workshop
"Disks around Young Stellar Objects"

2002 Jan Arcetri Observatory, Florence, Italy
"Dusty Disks around Young Stars"

2002 Jun Academia Sinica Star Formation Workshop, Taipei, Taiwan
"Debris Disks and the Submillimeter Array"

2002 Sep University of Calgary, Canada
"The Debris Disk–Planet Connection"

2002 Nov Institute for Astronomy, Honolulu, HI
"Debris Disks and Unseen Planets"

2003 Jul IAU Symposium 221, Sydney, Australia
"High Angular Resolution Studies of Disks– the Millimetre"

2003 Dec University of Rochester, Rochester, NY
"Debris Disks around Nearby Stars"

2003 Dec University of Illinois, Champaign-Urbana, IL
"Debris Disks around Nearby Stars"

2004 Mar Carnegie DTM, Washington, DC
"Debris Disks around Nearby Stars"

2004 Apr SUNY Stony Brook, Stony Brook, NY
"Debris Disks around Nearby Stars"

2004 Jun From Spitzer to Herschel and Beyond Conference, Pasadena, CA
"Dust, Disks, and Planets"

2004 Jul 2nd TPF/Darwin Conference, San Diego, CA
"Millimeter/Submillimeter Observations of Young Disks"

2004 Sep ESO ALMA Community Day, Garching, Germany
"The Submillimeter Array and Lessons for High Frequencies"

2004 Sep Arcetri Observatory, Florence, Italy
"The Submillimeter Array"

2005 Apr University of Maryland, College Park, MD
"Debris Disks around Nearby Stars"

2005 May Astrobiology and the Origins of Life Conference, McMaster University, Hamilton, CA
"Protoplanetary Disks"

2005 Jul Oort Workshop: Protoplanetary Disk Evolution, Leiden, The Netherlands
"TW Hya: from the Submm to the Centimeter"

2005 Sep Revealing the Molecular Universe (Welch Symposium), Berkele y, CA
"Pebbles from Heaven: Radio Interferometry and Planet Formation"

2005 Oct Workshop on Nearby Resolved Debris Disks, STScI, Baltimore, MD

"Resovling Debris Disks with (Sub)Millimeter Interferometry"

2006 Feb University of Illinois, Champaign-Urbana, IL
"Protoplanetary Disks"

2006 Mar AbSciCon 2006, Washington, DC
"Radio Observations of Protoplanetary Disks"

2006 Apr U.C. Berkeley, Berkeley, CA
"From Dust to Planets"

2006 May Harvard-Smithsonian CfA, Cambridge, MA
"Protoplanetary Disks: Analogs of the Early Solar System"

2006 Aug Herzberg Institute of Astrophysics, Victoria, Canada
"Protoplanetary Disks"

2006 Aug Submillimeter Observing Techniques School, Victoira, Canada
"Imaging and Deconvolution"
"eSMA: the SMA+JCMT+CSO array"

2006 Sep From Dust to Planetesimals, Ringberg, Germany
"Grain Growth in Protoplanetary Disks: The (Sub)Millimeter"

2006 Oct US Square Kilometer Array Consortium, Cambridge, MA
"Cradle of Life"

2006 Nov Science with ALMA, Madrid, Spain
"The ALMA View of Dust Evolution: Making Planets and Decoding Debris"

2007 Mar NRAO, Charlottesville, VA
"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 Dec Caltech, Pasadena, CA
"Protoplanetary Disks: Analogs of the Early Solar System"

2007 Dec U.C. Berkeley Radio Astronomy Lab, Berkeley, CA
"Evidence for a Population of High Redshift Submillimeter Galaxies"

2008 Mar NRAO, Socorro, NM
"(Sub)Millimeter Studies of Protoplanetary Disks"

2008 Jun 212th AAS Meeting (plenary session), St. Louis, MO
"Planet Forming Disks"

2008 Jun MPIA, Heidelbeg, Germany
"Millimeter Studies of Planet Forming Disks"

2008 Jun MPIfR, Bonn, Germany
"Millimeter Studies of Planet Forming Disks"

2008 Oct New Light on Young Stars: Spitzer's View of Circumstellar Disks, Pasadena, CA
"Resolved YSO Disk Studies: Present and Future"

2008 Nov Radio Astronomy Laboratory 50th Anniversary, Berkeley, CA

"Protoplanetary Disks: An Observer's Perspective"

2009 Feb AAAS Annual Meeting, Chicago, IL
"Cosmic Cradle of Life: Protoplanetary Disks"

2009 Jun Millimeter and Submillimeter Astronomy at High Angular Resolution, Tapei, Taiwan
"Protoplanetary Disks and Debris Disks"

2009 Jul Gordon Research Conference: The Origins of Solar Systems, Mt. Holyoke College, MA
"Disk Dissipation: the Submillimeter Perspective"

2009 Aug The Dynamics of Disks and Planets, Isaac Newton Institute, Cambridge, UK
"Submillimeter Observations of Protoplanetary Disks"

Publication List

(a) Refereed Publications

1. Wilner, D.J. 1986, "Period Revision and Refinement for V960 Aql", *Journal of the AAVSO* **15**, no. 2, 88

2. Wilner, D.J. and Lada, C.J. 1991, "The Luminosity Function of NGC 2362", *The Astronomical Journal*, **102**, 1050

3. Bieging, J.H., Wilner, D.J. and Thronson, H. 1991, "The Molecular Envelope of NGC 7027", *The Astrophysical Journal*, **379**, 271

4. Jaminet, P.A., Danchi, W.C., Sutton, E.C., Russell, A.P.G., Sandell, G., Bieging, J.H. and Wilner, D. 1991, "CO J=3-2 and J=2-1 Observations of NGC 7027", *The Astrophysical Journal*, **380**, 461

5. Wright, M., Sandell, G., Wilner, D.J., and Plambeck, R.L. 1992, "High Resolution Images of Dust Emission from Orion-KL", *The Astrophysical Journal*, **339**, 225

6. Wilner, D.J., Wright, M.C.H., and Plambeck, R.L. 1994, "Maps of 92 GHz Methyl Cyanide Emission in Orion-KL", *The Astrophysical Journal*, **422**, 642

7. Wilner, D.J., and Welch, W.J. 1994, "The S140 core: Aperture Synthesis HCO^+ and SO observations", *The Astrophysical Journal*, **427**, 898

8. Reach, W.T., Pound, M., Wilner, D.J., Lee, Y. 1995, "Dense Gas in High-latitude Molecular Clouds", *The Astrophysical Journal*, **441**, 244

9. Myers, P.C., Bachiller, R., Caselli, P., Fuller, G.A., Mardones, D., Tafalla, M. and Wilner, D.J. 1995, "Gravitational Infall in the Dense Cores L1527 and L483", *The Astrophysical Journal*, **449**, L65

10. Wilner, D.J., Welch, W.J., and Forster, J.R. 1995, "Sub-arcsecond Imaging of W3(OH) at 87.7 GHz", *The Astrophysical Journal*, **449**, L73

11. Zhang, Q., Ho, P.T.P., Wright, M.C.H.W., and Wilner, D.J. 1995, "SiO Emission in

a Jet-like Molecular Outflow towards L1157", *The Astrophysical Journal*, **451**, L71

12. Wilner, D.J., Zhao, J.-H., and Ho, P.T.P. 1995, "The Molecular Medium of H1413+117: BIMA CO(3-2) and HCO^+(4-3) Observations", *The Astrophysical Journal*, **452**, L91

13. Wilner, D.J., Ho, P.T.P. and Zhang, Q. 1995, "Searching for Infall: Aperture Synthesis HCO^+(1–0) and SiO(2–1) Observations of the G45.47+0.05 Region", *The Astrophysical Journal*, **462**, 339

14. Wright, M.C.H., Plambeck, R.L. and Wilner, D.J. 1996, "A Multi-line Aperture Synthesis Study of Orion-KL", *The Astrophysical Journal*, **469**, 216

15. Myers, P.C., Mardones, D., Tafalla, M., Williams, J.P. and Wilner, D.J. 1996, "A Simple Model of Spectral Line Profiles from Contracting Clouds", *The Astrophysical Journal*, **465**, L133

16. Wilner, D.J., Ho, P.T.P. and Rodriguez, L.F. 1996, "Sub-arcsecond VLA Observations of HL Tau: Imaging the Protostellar Disk", *The Astrophysical Journal*, **470**, L117

17. Chen, H., Tafalla, M, Greene, T.P., Myers, P.C. and Wilner, D.J. 1996, "IRAS 20050+2720: An Embedded Young Cluster Associated with a Multipolar Outflow", *The Astrophysical Journal*, **475**, 163

18. Shepherd, D.S., Churchwell, E. and Wilner, D.J. 1997, "A High Spatial Resolution Study of the ON2 Massive Star Forming Region", *The Astrophysical Journal*, **482**, 355

19. Wyrowski, F., Hofner, P., Schilke, P., Walmsley, C.M., Wilner, D.J. and Wink, J. 1997, "Millimeter Interferometry towards the ultra-compact HII region W3(OH)", *Astronomy & Astrophysics*, **320**, L17

20. Mardones, D., Myers, P.C., Tafalla, M., Wilner, D.J., Bachiller, R. and Garay, G.G. 1997, "A Statistical Search for Infall Motions in Nearby Young Stellar Objects", *The Astrophysical Journal*, **489**, 721

21. Wilner, D.J. and Wright, M.C.H. 1997, "A 2.8 Millimeter Survey of the Hubble Deep Field", *The Astrophysical Journal*, **488**, L67

22. Wilner, D.J., Reynolds, S.P. and Moffet, D.A. 1998, "CO Observations toward the Supernova Remnant 3C 391" *The Astronomical Journal*, **115**, 247

23. Goodman, A.A., Barranco, J.A., Wilner, D.J., Heyer, M. H. 1998, "Velocity Coherence in Dense Cores: The Transition to Coherence", *The Astrophysical Journal*, **504**, 223

24. Girart, J.M., Ho, P.T.P., Rudolph, A.L., Estalella, R., Wilner, D.J. and Chernin, L.M. 1998, "The HCO^+ Molecular Outlfow in NGC 2071" *The Astrophysical Journal*, **522**, 921

25. Rodriguez, L.F., D'Alessio, P., Wilner, D.J., Ho, P.T.P., Torrelles, J.M., Curiel, S., Gomez, Y., Lizano, S., Pedlar, A., Canto, J. and Raga, A.C. 1998, "Compact

Protoplanetary Disks in a Binary System in L1551" *Nature*, **395**, 355

26. Rosolowsky, E.W., Goodman, A.A., Wilner, D.J., and Williams, J.P. 1999, "The Spectral Correlation Function– A New Tool for Analyzing Spectral Line Maps", *The Astrophysical Journal*, **524**, 887

27. Williams, J.P., Myers, P.C., Wilner, D.J., and DiFrancesco, J. 1999, "A High Resolution Study of the Slowly Contracting Starless Core L1544", *The Astrophysical Journal*, **513**, L61

28. Downes, D., Neri, R., Wiklund, T., Wilner, D.J. and Shaver, P. 1999, "Detection of CO(4-3), CO(9-8), and Dust Emission in the BAL Quasar APM 08279+5255 at a redshift of 3.9", *The Astrophysical Journal*, **513**, L1

29. Wilner, D.J. and Lay, O.P. 2000, "Subarcsecond Millimeter and Submillimeter Observations of Circumstellar Disks", in *Protostars and Planets IV*, eds. V. Mannings, A. Boss and S. Russell (Tucson: University of Arizona Press), p. 519

30. Wilner, D.J., Reid, M.J. and Menten, K.M. 1999, "The Synchrotron Jet from the H2O Maser Source in W3(OH)" *The Astrophysical Journal*, **513**, 775

31. Wilner, D.J., Bourke, T.L., Ho, P.T.P., Killeen, N.E.B. and Calabretta, M. 1999, "A Search for Water Masers in the Gravitationally Lensed Quasars H1413+117 and MG0414+0534", *The Astronomical Journal*, **117**, 1139

32. Ohashi, N., Lee, S.W., Wilner, D.J. and Hayashi, M. 1999, "CCS Imaging of the Starless Core L1544: An Envelope with Infall and Rotation", *The Astrophysical Journal*, **518**, L41

33. Downes, D., Neri, R., Guilloteau, S., Casoli, F., Hughes, D., Lutz, D., Menten, K.M., Wilner, D.J., Andreani, P., Bertoldi, F., Carilli, C.L., Dunlop, J., Genzel, R., Gueth, F., Ivison, R.J., Mann, R.G., Mellier, Y., Oliver, S., Peacock, J., Rigopoulou, D., Rowan-Robinson, M., Serjeant, S., Schilke, P., Tacconi, L.J., Wright, M. 1999, "Proposed Identification of Hubble Deep Field Submillimeter Source HDF850.1", *Astronomy and Astrophysics*, **347**, 809

34. Wilner, D.J., Ho, P.T.P., Kastner, J.H. and Rodriguez, L.F. 2000, "VLA Imaging of the Disk Surrounding the Nearby Young Star TW Hya", *The Astrophysical Journal*, **534**, L101

35. De Pree, C.G., Wilner, D.J., Goss, W.M., Welch, W.J. and McGrath, E. 2000, "Ultracompact HII Regions in W49 at 500 AU Scale: Shells, Winds and the Water Maser Source", *The Astrophysical Journal*, **540**, 308

36. Wilner, D.J., Myers, P.C., Mardones, D. and Tafalla, M. 2000, "Small Scale Structure of the Protostellar Collapse Candidate B335 Imaged in CS J=5–4 Emission", *The Astrophysical Journal*, **544**, L69

37. Wilner, D.J., De Pree, C.G., Goss, W.M. and Welch, W.J. 2001, "Hot Cores in W49N and the Timescale for Hot Core Evolution", *The Astrophysical Journal*, **550**, L81

38. Testi, L., Natta, A., Shepherd, D.S. and Wilner, D.J. 2001, "Constraints on Properties of the Protoplanetary Disks around UX Ori and CQ Tau", *The Astrophysical Journal*, **554**, 1087

39. DiFrancesco, James, Myers, Philip C., Wilner, David J., Ohashi, Nagayoshi and Mardones, Diego 2001, "Simultaneous Infall and Outflow in NGC 1333 IRAS 4", *The Astrophysical Journal*, **562**, 770

40. Harvey, Daniel W.A., Wilner, David J., Lada, Charles J., Myers, Philip C., Alves, Joao F. and Chen, Hua 2001, "Structure of Protostellar Collapse Candidate B335 Derived from Near-Infrared Extinction Maps", *The Astrophysical Journal*, **563**, 903

41. Calvet, N., D'Alessio, P., Hartmann, L., Wilner, D., Walsh, A. and Sitko, M. 2002, "Evidence for a Developing Gap in a 10 Myr old Protoplanetary Disk", *The Astrophysical Journal*, **568**, 1008

42. Wilner, D.J., Wright, M.C.H. and Di Francesco, J. 2002, "Search for Molecular Gas in the quasar SDSS 1044-0125 at z=5.73", *The Astronomical Journal*, **123**, 1288

43. Harvey, Daniel W.A., Wilner, David J., Di Francesco, James, Lee, Chang Won, Myers, Philip C., Williams, Jonathan P. 2002, "Limits on Radio Continuum Emission from a Sample of Contracting Starless Cores", *The Astronomical Journal*, **123**, 3325

44. Wilner, D.J., Holman, M.J., Kuchner, M.J., Ho, P.T.P. 2002, "Structure in the Dusty Debris around Vega", *The Astronomical Journal*, **569**, L115

45. Loinard, L., Rodriguez, L.F., D'Alessio, P., Wilner, D.J., and Ho, P.T.P. 2002, "Orbital Proper Motions in the Protobinary System L1527/IRAS04368+2557", *The Astrophysical Journal*, **581**, L109

46. Harvey, Daniel W.A., Wilner, David J., Myers, Philip C., Tafalla, Mario and Mardones, Diego 2002, "Inner Structure of Protostellar Collapse Candidate B335 Derived from Millimeter-Wave Interferometry", *The Astrophysical Journal*, **583**, 809

47. Fish, Vincent L., Reid, Mark J., Wilner, David J. and Churchwell, Ed 2003, "HI Absorption Toward Ultracompact HII Regions: Distances and Galactic Structure", *The Astrophysical Journal*, **587**, 201

48. Testi, L., Natta, A., Shepherd, D.S. and Wilner, D.J. 2003, "Large Grains in the disk of CQ Tau", *Astronomy and Astrophysics*, **403**, 323

49. Rodriguez, L.F., Porras, A., Claussen, M.J., Curiel, S., Wilner, D.J., and Ho, P.T.P. 2003, "The Binary Jet in L1551 IRS5", *The Astrophysical Journal*, **586**, L137

50. Wilner, D.J., Bourke, T.L., Wright, C.M., Jorgensen, J.K., van Dishoek, E.F., and Wong, T. 2003, "Disks around the Young Stars TW Hya and HD 100546 Imaged at 3.4 Millimeters with the Australia Telescope Compact Array", *The Astrophysical Journal*, **596**, 597

51. Harvey, Daniel W.A., Wilner, David J., Lada, Charles J., Myers, Philip C. and Alves,

Joao F. 2003, "Envelope Structure of Starless Core L694-2 Derived from a Near-Infrared Extinction Map", *The Astrophysical Journal*, **598, 1112**

52. Harvey, Daniel W.A., Wilner, David J., Myers, Philip C. and Tafalla, Mario 2003, "Disk Properties and Density Structure of the Star-Forming Dense Core B335", *The Astrophysical Journal*, **596**, 383

53. Harvey, Daniel W.A., Wilner, David J., Myers, Philip C. and Tafalla, Mario 2003, "Inner Structure of Starless Core L694-2 Derived from Millimeter-Wave Interferometry", *The Astrophysical Journal*, **597**, 424

54. De Pree, C.G., Wilner, D.J., Mercer, A.J., David, L.E., Goss, W.M., Kurtz, S. 2004, "Broad Recombination Line Objects in W49N at 600 AU Scales", *The Astrophysical Journal*, **600**, 286

55. Natta, A., Testi, L., Neri, R., Shepherd, D.S., Wilner, D.J. 2003, "A Search for Evolved Dust in Herbig Ae stars", *Astronomy and Astrophysics*, **416**, 179

56. Qi, C., Ho, P.T.P., Wilner, D.J., Takakuwa, S., Hirano, N. Ohashi, N., Bourke, T.L., Zhang, Q., Blake, G.A., Hogerheijde, M., Saito, M., Choi, M., Yang, J. 2004, "Imaging the Disk around TW Hya with the Submillimeter Array", *The Astrophysical Journal*, **616**, L7

57. Young, K.H., Hunter, T.H., Wilner, D.J., Gurwell, M.A.*et al.*, 2004, "Submillimeter Array Observations of CS J=14–13 Emission from the Evolved Star IRC+10216", *The Astrophysical Journal*, **616**, L51

58. Takakuwa, S., Ohashi, N., Ho, P.T.P., Qi, C., Wilner, D.J., Zhang, Q., Bourke, T.L., Hirano, N., Choi, M., Yang, J. 2004, "Submillimeter Array Observations of L1551 IRS 5 in CS J=7-6", *The Astrophysical Journal*, **616**, L15

59. Beuther, H., Zhang, Q., Greenhill, L.J., Reid, M.G., Wilner, D., Keto, E., Marrone, D., Ho, P.T.P., Moran, J.M., Rao, R., Shinnaga, H. Liu, S.-Y. 2004, "Sub-arcsecond sub-mm continuum observations of Orion-KL", *The Astrophysical Journal*, **616**, L23

60. Kuan, Y.-J., Huang, H.-C., Charnley, S.B., Hirano, H., Takakuwa, S., Wilner, D.J., Liu, S.-Y., Ohashi, N., Bourke, T.L., Qi, C., Zhang, Q. 2004, "Organic Molecules in Low-Mass Protostellar Hot Cores: Submillimeter Imaging of IRAS 16293-2422", *The Astrophysical Journal*, **616**, L27

61. Wilner, D.J. 2004, "Imaging Protoplanetary Disks with a Square Kilometer Array", *New Ast. Reviews*, **48**, 1363

62. Lazio, T. Jospeh W., Tarter, Jill C., Wilner, D.J. 2004, "The Cradle of Life" *New Ast. Reviews*, **48**, 985

63. Rodriguez, L.F., Loinard, L., D'Alessio, P., Wilner, D.J., and Ho, P.T.P. 2004, "IRAS16293-2442B: An Isolated, Compact Protoplanetary Disk in a Class 0 Object", *The Astrophysical Journal*, **621**, L133

64. Sakamoto, K., Ho, P.T.P., Iono, D., Keto, E. R., Mao, R.-Q., Matshishita, S., Peck, A.B., Wiedner, M.C., Wilner, D.J., Zhao, J.-H. 2006, "Molecular Superbubbles in the Starburst Galaxy NGC 253", *The Astrophysical Journal*, **636**, 685

65. Chen, H.-R., Welch, W.J., Wilner, D.J., Sutton, E.C. 2005, "A High-Mass Protobinary in the Hot Core W3(H_2O)", *The Astrophysical Journal*, **639**, 975

66. Beuther, H., Zhang, Q., Greenhill, L.J., Reid, M.J., Wilner, D. Keto, E., Shinnaga, H., Ho, P.T.P., Moran, J.M., Liu, S.-Y., Chang, C.-M. 2005, "Line imaging of Orion-KL at 865 μm with the Submillimeter Array", *The Astrophysical Journal*, **632**, 355

67. Wilner, D., D'Alessio, P., Calvet, N., Claussen, M.J., Hartmann, L. 2005, "Towards Planetesimals in the Disk around TW Hya", *The Astrophysical Journal*, **626**, L109

68. De Pree, C.G., Wilner, D.J., Deblasio, J., Mercer, A.J., Davis, L.E. 2005, "Morphologies of Ultracompact HII Regions in W49A and Sgr B2: Prevalence of Shells and a Modified Classification Scheme", *The Astrophysical Journal*, **624**, L110

69. Williams, J.P., Andrews, S.M., Wilner, D.J. 2005, "The Masses of the Orion Proplyds from Submillimeter Dust Emission", *The Astrophysical Journal*, **634**, 495

70. Jorgensen, J.K., Bourke, T.L., Myers, P.C., Schoier, F.L., van Dishoeck, E.F., Wilner, D.J. 2005, "Probing the inner 200 AU of low-mass protostars with the Submillimeter Array: Dust and organic molecules in NGC 1333-IRAS2A", *The Astrophysical Journal*, **632**, 973

71. Bourke, Tyler, L., Crapsi, Antonio, Myers, Philip C., Evans II, Neal, J., Wilner, David J., Huard, Tracy L., Jorgensen, Jes K., Young, Chadwick H. 2005, "Discovery of a Low Mass Bipolar Outflow from L1014-IRS with the Submillimeter Array", *The Astrophysical Journal*, **633**, L129

72. Rodmann, J., Henning, Th., Chandler, C.J., Mundy, L.G., Wilner, D.J. 2006, "Large Dust Particles in disks around T Tauri stars", *Astronomy and Astrophysics*, **446, 211**

73. Humphreys, E.M.L., Greenhill, L.J., Reid, M.J., Beuther, H., Moran, J.M., Gurwell, M., Wilner, D.J., Kondratko, P.T. 2005, "First Detection of Millimeter/Submillimeter Extragalactic H_2O Maser Emission", *The Astrophysical Journal*, **634**, L133

74. Iono, D., Peck, A., Pope, A., Borys, C., Scott, D., Wilner, D., Gurwell, M., Ho, P.T.P., Yun, M.S., Matshushita, S., Petitpas, G., Dunlop, J., Elvis, M., Blain, A., Le Floc'h, E. 2006, "Interferometric 890 μm Images of High Redshift Submillimeter Galaxies", *The Astrophysical Journal*, **640**, L11

75. Iono, D., Yun, M.S., Elvis, M., Peck, A.B., Ho, P.T.P., Wilner, D.J., Hunter, T.R., Matshushita, S., Muller, S. 2006, "A Detection of [CII] line emission in the z=4.7 QSO BR1202-0725", *The Astrophysical Journal*, **645**, L97

76. Beuther, H., Zhang, Q., Reid, M.J., Hunter, T.R., Gurwell, M. Wilner, D., Zhao, J.-H., Shinnaga, H., Keto, E., Ho, P.T.P. Moran, J.M., Liu S.-Y. 2005, "Submillimeter Array 440 μm/690 GHz Line and Continuum Observations of Orion-KL", *The Astro-*

physical Journal, **636**, 323

77. Raman, A., Lisanti, M., Wilner, D.J., Qi, C., Hogerheijde, M. 2006, "A Keplerian Disk around the Herbig Ae star HD169142", *The Astronomical Journal*, **131**, 2290

78. Qi, C., Wilner, D.J., Calvet, N., Bourke, T.L., Blake, G.A., Hogerheijde, M., Ho, P.T.P., Bergin, E. 2006, "CO J=6-5 observation of TW Hya with the SMA", *The Astrophysical Journal*, **636**, L157

79. Wagg, J., Wilner, D.J., Neri, R., Downes, D., Wiklind, T. 2005, "HCN J=5-4 Emission in APM08279+5255 at z=3.91", *The Astrophysical Journal*, **634**, L13

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(b) Technical Memos

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

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

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

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Wilner, D., Gurwell, M., Ho, P. 2000 "Requirements for Initial SMA Science Observations", Submillimeter Array Technical Memo #142

(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 Colloquium Committee, 2001–2002 (co-chair)

  CfA Prize Committee, 2003–2006

  Submillimeter Array Postdoctoral Fellow Selection Committee, 2003– (chair 2003–)

  CfA Strategic Science Planning Committee, 2005–2006

  CfA Postdoctoral Fellow Selection Committee, 2006–2007 (chair 2007)

  Submillimeter Array Steering Committee, 2006–

  Smithsonian Institution Research Endowment Fund Review Panel, 2007

  CfA R&G Division Postdoctoral Liason, 2008–

- External:

  GSMT Star and Planet Formation Working Group, 2000–2001

  AAS Participant in SET Congressional Visits Day, 2000, 2004

  Square Kilometer Array Science Advisory Committee, 2001–2005

  Atacama Large Millimeter Array Science Advisory Committee, 2002–2003

  NRAO/Haystack Scientific Future of VLBI Committee, 2003–2004

  Terrestrial Planet Finder Interferometer Science Working Group, 2005–

  NRAO Users Committee, 2009–

  Astro2010: Radio, Millimeter and Submillimeter from the Ground Panel, 2009

  ALMA North American Science Advisory Committee, 2009–

Refereeing Activities

Referee papers for major Astronomy journals (typically 4 per year)

Proposal Referee for NRAO Very Large Array, 1998–2001

Reviewer for NASA Origins of Solar Systems Program, 1998, 1999, 2000, 2002, 2003, 2005, 2007, 2009

CfA Optical and Infrared Time Allocation Committee, 1999, 2001

Proposal Referee for NRAO 12 meter telescope, 1999–2000

Proposal Referee for NRAO Green Bank Telescope, 2000–2004

Proposal Referee for Berkeley-Illinois-Maryland-Association, 2000–2002

Reviewer for NRAO ALMA Software Requirements, 2000

CfA Submillimeter Array Time Allocation Committee, 2003– (chair 2003–2006)

ASIAA Submillimeter Array Time Allocation Committee, 2005–2008

Reviewer for NSF University Radio Observatories Program, 2005, 2008

Reviewer for NSF Astronomy Program, 2009

Proposal Referee for Subaru Telescope, 2005

Reviewer, Galactic Panel, Hubble Space Telescope Cycle 16, 2007

Reviewer for Agence Nationale de la Recherche, Programme blanc 2007, 2008

Responsibilities for Conferences

SOC chair, XXIVth IAU General Assembly JD9 on Cold Gas and Dust at High Redshift, 2000

SOC member, Taiwan Summer Star Formation Workshop, 2002

SOC member, CfA Star and Planet Formation Symposium, 2004

SOC member, Submillimeter Astronomy in the era of the SMA, Harvard University, 2005

SOC chair, 207th AAS Meeting Special Session "Science With the Submillimeter Array", 2006

SOC member, eSMA Workshop, Leiden Observatory, 2007

SOC chair, CfA SMA Science Symposium, 2009

SOC member, Millimeter and Submm Astronomy at High Angular Resolution, Taiwan, 2009

Educational Activities and Outreach

- Harvard University Courses

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

- Summer School Lectures

Submillimeter Observing Techniques School, Herzberg Institute of Astrophysics, 2006
"Imaging and Deconvolution in Interferometry"
11^{th} Synthesis Imaging Workshop, NRAO/U. New Mexico/New Mexico Tech, 2008
"Imaging and Deconvolution in Interferometry"
Observig with ALMA: A Workshop, McMaster University, 2009

"Imaging and Deconvolution in Interferometry"

- Graduate Students Supervised:

Meredith Hughes, Harvard University, 2005 Oct –

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*

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:

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 Students Supervised:

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:

2002 Dec Bradley Observatory, Agnes Scott College, Decatur, GA
"The Search for Other Earths"

2007 Mar Harvard-Smithsonian CfA, Observatory Night, Cambridge, MA
"From Dust to Planets"

- Press Releases:

1998 Sep "VLA Reveals a Close Pair of Potential Planetary Systems" (NRAO)

2002 Jan "Structure in Dust Around Vega May Be Signature of Planet" (CfA)

2005 Jun "SMA Confirms Proto-Planetary Systems are Common in the Galaxy"(CfA)

2005 Jun "Detour: Planetary Construction Zone Ahead" (CfA/NRAO)

2007 Aug "Astronomers Spot Brightest Galaxies in the Distant Universe" (CfA)

2008 Jan "Two unusual older stars giving birth to second wave of planets" (UCLA)

2008 Jul "Open clusters like Orion have low fertility rate" (U.C. Berkeley)

2009 Feb "Astronomer's Unveiling Life's Cosmic Origins" (NRAO/CfA)

2009 Jun "Radio Images Reveal Planet-Forming Disk Orbiting Twin Suns" (UCLA/RIT/CfA)

October 5, 2009