

# Josh Eisner

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## EDUCATION

- **California Institute of Technology** Ph.D. in Astrophysics, June 2005. Dissertation entitled “*High angular resolution studies of the structure and evolution of protoplanetary disks*”. Michelson Graduate Fellow. Advisors: Lynne Hillenbrand and Anneila Sargent.
- **Cambridge University (Emmanuel College)** Master of Philosophy in Physics, August 2000. Dissertation entitled “*Data reduction, pointing models, and scintillation at COAST*”. Herchel Smith Harvard Scholar at the Cavendish Laboratory. Advisor: David Buscher.
- **Harvard University** A.B. Summa Cum Laude in Astronomy & Astrophysics and Physics, June 1999. Dissertation entitled “*SiO Masers, H<sub>2</sub>O Masers, and Outflow in the W51-IRS2 Star Forming Region*”. Advisors: Lincoln Greenhill and James Moran.

## POSITIONS

- **Associate Professor** University of Arizona, 2012-
- **Visiting Fellow** JILA, University of Colorado, 2014
- **Assistant Professor** University of Arizona, 2008-2012
- **Project Scientist** Keck Interferometer ASTRA Project, 2008-2012
- **Miller Research Fellow** University of California at Berkeley, 2005-2008
- **Michelson Graduate Fellow** California Institute of Technology, 2002-2005
- **Herchel Smith Harvard Scholar** University of Cambridge, 1999-2000

## HONORS AND AWARDS

- **JILA Visiting Fellowship** University of Colorado and NIST, 2014
- **Alfred P. Sloan Research Fellowship** 2011-2015
- **Miller Research Fellowship** University of California at Berkeley 2005-2008

- **Michelson Graduate Fellowship** California Institute of Technology 2002-2005
- **GBT Student Support Award** National Radio Astronomy Observatory 2003
- **Reed Fellowship** California Institute of Technology 2000-2001
- **Herchel Smith Harvard Scholarship** Cambridge University 1999-2000
- **Michelson Summer Research Fellowship** California Institute of Technology 1999
- **Phi Beta Kappa** Harvard University 1999
- **Hoopes Senior Thesis Prize** Harvard University 1999
- **Leo Goldberg Astronomy Thesis Prize** Harvard University 1998, 1999
- **NSF Summer Research Fellowship** National Radio Astronomy Observatory 1998
- **National Science Foundation Honorable Mention** 1999,2000
- **John Harvard Scholarship** Harvard University 1997-1999
- **Harvard College Scholarship** Harvard University 1996-1997

## PEER-REVIEWED PUBLICATIONS

80. “Protoplanetary Disk Properties in the Orion Nebula Cluster: Initial Results from Deep, High-Resolution ALMA Observations”, **J.A. Eisner**, H.G. Arce, N.P. Ballering, et al., 2018, *Astrophysical Journal*, in press
79. “Multiple Gaps in the Disk of the Class I Protostar GY 91”, P.D. Sheehan & **J.A. Eisner**, 2018, *Astrophysical Journal*, 857, 18
78. “Disk Masses for Embedded Class I Protostars in the Taurus Molecular Cloud”, P.D. Sheehan & **J.A. Eisner**, 2017, *Astrophysical Journal*, 851, 45
77. “An Explanation of the Very Low Radio Flux of Young Planet-mass Companions”, Y.-L. Wu, L. M. Close, **J.A. Eisner**, & P.D. Sheehan, 2017, *Astronomical Journal*, 154, 234
76. “Data Reduction and Image Reconstruction Techniques for Non-Redundant Masking”, S.E. Sallum & **J.A. Eisner**, 2017, *Astrophysical Journal Supplement Series*, 233, 9
75. “Improved Constraints on the Disk Around MWC 349A from the 23-meter LBTI”, S.E. Sallum, **J.A. Eisner**, P.M. Hinz, P.D. Sheehan, A.J. Skemer, P.J. Tuthill, & J.S. Young, 2017, *Astrophysical Journal*, 844, 22
74. “WL 17: A Young Embedded Transition Disk”, P.D. Sheehan & **J.A. Eisner**, 2017, *Astrophysical Journal Letters*, 840, 12

73. “The ALMA View of the OMC1 Explosion in Orion”, J.M. Bally, A. Ginsburg, H. Arce, **J.A. Eisner**, A. Youngblood, L. Zapata, H. Zinnecker, 2017, *Astrophysical Journal*, 837, 60
72. “A VLA Survey For Faint Compact Radio Sources in the Orion Nebula Cluster”, P.D. Sheehan, **J.A. Eisner**, R.K. Mann, J.P. Williams, 2016, *Astrophysical Journal*, 831, 155
71. “L-band Spectroscopy with Magellan-AO/Clio2: First Results on Young Low-Mass Companions”, J.M. Stone, **J.A. Eisner**, A.J. Skemer, K. Morzinski, L. Close, J. Males, T.J. Rodigas, P. Hinz, A. Puglisi, 2016, *Astrophysical Journal*, 829, 39
70. “Prompt planetesimal formation beyond the snow line”, P.J. Armitage, **J.A. Eisner**, & J.B. Simon, 2016, *Astrophysical Journal Letters*, 828, 2
69. “iLocater: a diffraction-limited Doppler spectrometer for the Large Binocular Telescope”, J.R. Crepp, et al., 2016, *Proc. SPIE*, 9908
68. “Imaging protoplanets: observing transition disks with non-redundant masking”, S.E. Sallum, **J.A. Eisner**, L. Close, et al., 2016, *Proc. SPIE*, 9907
67. “Protoplanetary Disks in the Orion OMC1 Region Imaged with ALMA”, **J.A. Eisner**, J.M. Bally, A. Ginsburg, P.D. Sheehan, 2016, *Astrophysical Journal*, 826, 16
66. “Adaptive Optics imaging of VHS 1256-1257: A Low Mass Companion to a Brown Dwarf Binary System”, J.M. Stone, A.J. Skemer, K. Kratter, T. Dupuy, L. Close, **J.A. Eisner**, J. Fortney, P. Hinz, J. Males, C. Morley, K. Morzinski, K. Ward-Duong, 2016, *Astrophysical Journal Letters*, 818, 12
65. “The LEECH Exoplanet Imaging Survey: Orbit and Component Masses of the Intermediate Age, Late-Type Binary NO Uma”, J. E. Schlieder, et al., 2016, *Astrophysical Journal*, 818, 1
64. “The LEECH Exoplanet Imaging Survey: Characterization of the Coldest Directly Imaged Exoplanet, GJ 504 b, and Evidence for Super-Stellar Metallicity”, A.J. Skemer, et al. 2016, *Astrophysical Journal*, 817, 166
63. “Accreting Protoplanets in the LkCa 15 Transition Disk”, S.E. Sallum, K.B. Follette, **J.A. Eisner**, et al., 2015, *Nature*, 527, 342
62. “The Early ALMA View of the FU Ori Outburst System”, A.S. Hales, S.A. Corder, W.R.D. Dent, S.M. Andrews, **J.A. Eisner**, L.A. Cieza, 2015, *Astrophysical Journal*, 812, 134
61. “Exoplanet science with the LBTI: instrument status and plans”, D. Defrère, et. al., 2015, *Proc. SPIE*, 9605, 1
60. “ALMA Observations of the Largest Proto-Planetary Disk in the Orion Nebula, 114-426: A CO Silhouette”, J. Bally, R. K. Mann, **J.A. Eisner**, S.M. Andrews, J. Di Francesco, M. Hughes, D. Johnstone, B. Matthews, L. Ricci, J.P. Williams, 2015, *Astrophysical Journal*, 808, 69

59. “Spectral Energy Distributions of Accreting Protoplanets”, **J.A. Eisner**, 2015, *Astrophysical Journal Letters*, 803, 4
58. “Protoplanetary Disk Masses in the Young NGC 2024 Cluster”, R.K. Mann, S.M. Andrews, **J.A. Eisner**, J.P. Williams, M.R. Meyer, J. Di Francesco, J.M. Carpenter, D. Johnstone, 2015, *Astrophysical Journal*, 802, 77
57. “The LEECH Exoplanet Imaging Survey. Further constraints on the planet architecture of the HR 8799 system”, A.-L. Maire, et al., 2015, *Astronomy & Astrophysics*, 576, 133
56. “New Spatially Resolved Observations of the T Cha Transition Disk and Constraints on the Previously Claimed Substellar Companion”, S.E. Sallum, **J.A. Eisner**, L.M. Close, et al., 2015, *Astrophysical Journal*, 801, 85
55. “A Machine Learning Method to Infer Fundamental Stellar Parameters from Photometric Light Curves”, A.A. Miller, J.S. Bloom, J.W. Richards, Y.S. Lee, D.L. Starr, N.R. Butler, S. Tokarz, N. Smith, **J.A. Eisner**, 2015, *Astrophysical Journal*, 798, 122
54. “Time-monitoring Observations of Br $\gamma$  Emission from Young Stars”, **J.A. Eisner**, G.H. Rieke, M.J. Rieke, K.M. Flaherty, J.M. Stone, T.J. Arnold, S.R. Cortes, E. Cox, C. Hawkins, A. Cole, S. Zajac, & A.L. Rudolph, 2015, *Monthly Notices of the Royal Astronomical Society*, 447, 202
53. “Constraining the Sub-AU-Scale Distribution of Hydrogen and Carbon Monoxide Gas around Young Stars with the Keck Interferometer”, **J.A. Eisner**, L.A. Hillenbrand, & J. M. Stone, 2014, *Monthly Notices of the Royal Astronomical Society*, 443, 1916
52. “Variable Accretion Processes in the Young Binary-Star System UY Aur”, J. M. Stone, **J.A. Eisner**, C. Salyk, C. Kulesa, & D. McCarthy, 2014, *Astrophysical Journal*, 792, 56
51. “Measuring the Disk Masses of the Class I Binary Protostar GV Tau”, P. D. Sheehan & **J.A. Eisner**, 2014, *Astrophysical Journal*, 791, 19
50. “High contrast imaging at the LBT: the LEECH exoplanet imaging survey”, A.J. Skemer, et. al., 2014, *Proc. SPIE*, 9148, 20
49. “First Faint Dual-field Off-axis Observations in Optical Long Baseline Interferometry”, J. Woillez, P. Wizinowich, R. Akeson, M. Colavita, **J. A. Eisner**, R. Millan-Gabet, J. D. Monnier, J.-U. Pott, & S. Ragland, 2014, *Astrophysical Journal*, 783, 104
48. “Time-monitoring Observations of the Ro-Vibrational Overtone CO bands in Young Stars”, **J.A. Eisner**, G.H. Rieke, M.J. Rieke, K.M. Flaherty, T.J. Arnold, J.M. Stone, S.R. Cortes, E. Cox, C. Hawkins, A. Cole, S. Zajac, & A.L. Rudolph, 2013, *Monthly Notices of the Royal Astronomical Society*, 434, 407
47. “Simultaneous Exoplanet Characterization and Deep Wide-field Imaging with a Diffractive Pupil Telescope”, O. Guyon, **J.A. Eisner**, R. Angel, et al., 2013, *Astrophysical Journal*, 767, 11

46. “The Ionized Circumstellar Envelopes of Orion Source I and the Becklin Neugebauer Object”, R. L. Plambeck, A.D. Bolatto, J. M. Carpenter, **J.A. Eisner**, et al., 2013, *Astrophysical Journal*, 765, 40
45. “Disk Masses at the end of the main accretion phase: CARMA Observations and Multi-Wavelength Modeling of Class I Protostars”, **J.A. Eisner**, 2012, *Astrophysical Journal*, 755, 23
44. “Disentangling Confused Stars at the Galactic Center with Long Baseline Infrared Interferometry”, J. M. Stone, **J.A. Eisner**, J.D. Monnier, J. Woillez, P. Wizinowich, J.-U. Pott, & A. M. Ghez, 2012, *Astrophysical Journal*, 754, 151
43. “First Light LBT AO Images of HR 8799 bcde at 1.65 and 3.3 Microns: New Discrepancies between Young Planets and Old Brown Dwarfs”, A. J. Skemer et al., 2012, *Astrophysical Journal*, 753, 14
42. “High Precision Astrometry with a Diffractive Pupil Telescope”, O. Guyon, E.A. Bendek, **J.A. Eisner**, et al., 2012, *Astrophysical Journal Supplement Series*, 200, 11
41. “The Grey Needle: Large Grains in the HD 15115 Debris Disk from LBT/PISCES/Ks and LBTI/LMIRCam/L’ Adaptive Optics Imaging”, T. J. Rodigas et al., 2012, *Astrophysical Journal*, 752, 57
40. “New Spatially Resolved Mid-Infrared Observations of the Transitional Disk TW Hya and Tentative Evidence for a Self-Luminous Companion”, T. J. Arnold, **J.A. Eisner**, J.D. Monnier, & P. Tuthill, 2012, *Astrophysical Journal*, 750, 119
39. “Self-Phase-Referenced Spectro-Interferometry on the Keck Interferometer”, J. Woillez, R. Akeson, M. Colavita, **J.A. Eisner**, et al., 2012, *Publications of the Astronomical Society of the Pacific*, 124, 911, 51
38. “The development of WIFIS: a wide integral field infrared spectrograph”, S. Sivanandam et al., 2012, *Proc. SPIE*, 8446, 4
37. “On-sky operations and performance of LMIRCam at the Large Binocular Telescope”, J.M. Leisenring et al., 2012, *Proc. SPIE*, 8446, 4
36. “First faint dual-field phase-referenced observations on the Keck interferometer”, J. Woillez et al., 2012, *Proc. SPIE*, 8446, 4
35. “Resolving the Sub-AU-Scale Gas and Dust Distribution in FU Orionis Sources”, **J.A. Eisner** & L.A. Hillenbrand, 2011, *Astrophysical Journal*, 738, 9
34. “Time-Variable Accretion in the TW Hya Star/Disk System”, **J.A. Eisner**, G.W. Doppmann, J.R. Najita, D. McCarthy, C. Kulesa, B.J. Swift, & J. Teske, 2010, *Astrophysical Journal Letters*, 722, 28
33. “Direct detection of density perturbations in a circum-Be-star disk using the new spectro-astrometry at the Keck interferometer”, J.-U. Pott, J. Woillez, S. Ragland, P. L. Wizinowich, **J.A. Eisner**, et. al., 2010, *Astrophysical Journal*, 721, 802

32. “Spatially and Spectrally Resolved Hydrogen Gas within 0.1 AU of T Tauri and Herbig Ae/Be Stars”, **J.A. Eisner**, J. D. Monnier, J. Woillez, R.L. Akeson, R. Millan-Gabet, J.R. Graham, L. A. Hillenbrand, J.-U. Pott, S. Ragland, & P. Wizinowich, 2010, *Astrophysical Journal*, 718, 774
31. “Science with the Keck interferometer ASTRA program”, **J.A. Eisner**, R. Akeson, M. Colavita, A. Ghez, J. Graham, L. Hillenbrand, R. Millan-Gabet, J.D. Monnier, J.-U. Pott, S. Ragland, P. Wizinowich, J. Woillez, 2010, *Proc. SPIE*, 7734, 36
30. “First Keck interferometer measurements in self-phase referencing mode: spatially resolving circum-stellar line emission of 48 Lib”, J.-U. Pott, J. Woillez, S. Ragland, P. L. Wizinowich, **J.A. Eisner**, et. al., 2010, *Proc. SPIE*, 7734, 24
29. “ASTRA: ASTrometry and phase-Referencing Astronomy on the Keck interferometer”, J. Woillez, R. Akeson, M. Colavita, **J.A. Eisner**, et. al., 2010, *Proc. SPIE*, 7734, 37
28. “Precision astrometry of a sample of speckle binaries and multiples with the adaptive optics facilities at the Hale and Keck II telescopes”, K.G. Helminiak, M. Konacki, S.R. Kulkarni, & **J.A. Eisner.**, 2009, *Monthly Notices of the Royal Astronomical Society*, 400, 406
27. “Spatially Resolved Mid-Infrared Imaging of the SR 21 Transition Disk”, **J.A. Eisner**, J. D. Monnier, P. Tuthill & S. Lacour, 2009, *Astrophysical Journal Letters*, 698, L169
26. “Spatially Resolved Spectroscopy of Sub-AU-Sized Regions of T Tauri and Herbig Ae/Be Disks”, **J.A. Eisner**, J. R. Graham, R. L. Akeson, & J. Najita, 2009, *Astrophysical Journal*, 692, 309
25. “High Resolution K-band Spectroscopy of MWC 480 and V1331 Cyg”, J.R. Najita, G.W. Doppman, J.S. Carr, J.R. Graham, & **J.A. Eisner**, 2009, *Astrophysical Journal*, 691, 738
24. “Proplyds and Massive Disks in the Orion Nebula Cluster Imaged with CARMA and SMA”, **J. A. Eisner**, R. L. Plambeck, John M. Carpenter, S. A. Corder, C. Qi, & D. Wilner, 2008, *Astrophysical Journal*, 683, 304
23. “Near-Infrared Interferometric, Spectroscopic, and Photometric Monitoring of T Tauri Inner Disks”, **J.A. Eisner**, L.A. Hillenbrand, R.J. White, J.S. Bloom, R.L. Akeson, & C.H. Blake, 2007, *Astrophysical Journal*, 669, 1072
22. “Interferometric Observations of V1663 Aquilae (Nova Aql 2005)”, B.F. Lane, A. Retter, **J.A. Eisner**, M.W. Muterspaugh, R.R. Thompson, & J.L. Sokoloski, 2007, *Astrophysical Journal*, 669, 1150
21. “Water vapour and hydrogen in the terrestrial-planet-forming region of a protoplanetary disk”, **J.A. Eisner**, 2007, *Nature*, 447, 562
20. “Spectrally Dispersed K-Band Interferometric Observations of Herbig Ae/Be Sources: Inner Disk Temperature Profiles”, **J.A. Eisner**, E.I. Chiang, B.F. Lane, & R.L. Akeson, 2007, *Astrophysical Journal*, 657, 347

19. “Stellar and Molecular Radii of a Mira Star: First Observations with the Keck Interferometer Grism”, **J.A. Eisner**, J.R. Graham, R.L. Akeson, E.R. Ligon, M.M. Colavita, G. Basri, K. Summers, S. Ragland, & A. Booth, 2007, *Astrophysical Journal Letters*, 654, L77
18. “Interferometric Observations of RS Ophiuchi and the Origin of the Near-IR Emission”, B.F. Lane, J.L. Sokoloski, R.K. Barry, W.A. Traub, A. Retter, M.W. Muterspaugh, R.R. Thompson, **J.A. Eisner**, E. Serabyn, & B. Mennesson, 2007, *Astrophysical Journal*, 658, 520
17. “Spatially Resolving the Inner Disk of TW Hya”, **J.A. Eisner**, E. I. Chiang, & L. A. Hillenbrand, 2006, *Astrophysical Journal Letters*, 637, L133
16. “Massive Protoplanetary Disks in the Trapezium Region”, **J.A. Eisner** & John M. Carpenter, 2006, *Astrophysical Journal*, 641, 1162
15. “Interferometric observations of explosive variables: V838 Mon, Nova Aql 2005, and RS Oph”, B.F. Lane, A. Retter, **J.A. Eisner**, R.R. Thompson, & M.W. Muterspaugh, 2006, *Proc. SPIE*, 6268, 50
14. “Constraining the Evolutionary Stage of Class I Protostars: Multi-wavelength Observations and Modeling”, **J.A. Eisner**, L.A. Hillenbrand, John M. Carpenter, & S. Wolf, 2005, *Astrophysical Journal*, 635, 396
13. “Interferometric Observations of V838 Monocerotis”, B.F. Lane, A. Retter, R.R. Thompson, & **J.A. Eisner**, 2005, *Astrophysical Journal Letters*, 622, L137
12. “AB Aurigae Resolved: Evidence for Spiral Structure”, S.A. Corder, **J.A. Eisner**, & A.I. Sargent, 2005, *Astrophysical Journal Letters*, 622, L133
11. “New insights on the AU-scale circumstellar structure of FU Orionis”, F. Malbet, R. Lachaume, J.-P. Berger, M. Colavita, E. Di Folco, **J.A. Eisner**, B.F. Lane, R. Millan-Gabet, D. Ségransan, & W. Traub, 2005, *Astronomy & Astrophysics*, 437, 627
10. “Observations of T Tauri Disks at Sub-AU Radii: Implications for Magnetospheric Accretion and Planet Formation”, **J.A. Eisner**, L.A. Hillenbrand, R.J. White, R.L. Akeson, & A.I. Sargent, 2005, *Astrophysical Journal*, 623, 952
9. “Adaptive Optics Imaging of the AU Microscopii Circumstellar Disk: Evidence for Dynamical Evolution”, S.A. Metchev, **J.A. Eisner**, L.A. Hillenbrand, & S. Wolf, 2005, *Astrophysical Journal*, 622, 451
8. “Observations and modeling of the inner disk region of T Tauri stars”, R.L. Akeson, C.H. Walker, K. Wood, **J.A. Eisner**, E. Scire, B. Penprase, D.R. Ciardi, G.T. van Belle, B. Whitney, & J.E. Bjorkman, 2005, *Astrophysical Journal*, 622, 440
7. “Resolved Inner Disks around Herbig Ae/Be Stars”, **J.A. Eisner**, B.F. Lane, L.A. Hillenbrand, R.L. Akeson & A.I. Sargent, 2004, *Astrophysical Journal*, 613, 1049
6. “Distribution of Circumstellar Disk Masses in the Young Cluster NGC 2024”, **J.A. Eisner** & John M. Carpenter, 2003, *Astrophysical Journal*, 598, 1341

5. “Near-Infrared Interferometric Measurements of Herbig Ae/Be Stars”, **J.A. Eisner**, B.F. Lane, R.L. Akeson, L.A. Hillenbrand, & A.I. Sargent, 2003, *Astrophysical Journal*, 588, 360
4. “Detecting Outer Planets in Edge-On Orbits: Combining Radial Velocity and Astrometric Techniques”, **J.A. Eisner** & S.R. Kulkarni, 2002, *Astrophysical Journal*, 574, 426
3. “Outflow 20-2000 AU from a High-Mass Protostar in W51-IRS2”, **J.A. Eisner**, L.J. Greenhill, J.R. Herrnstein, J.M. Moran, & K.M. Menten, 2002, *Astrophysical Journal*, 569, 334
2. “Sensitivity of the Astrometric Technique in Detecting Outer Planets”, **J.A. Eisner** & S.R. Kulkarni, 2001, *Astrophysical Journal*, 561, 1107
1. “Sensitivity of the Radial Velocity Technique in Detecting Outer Planets”, **J.A. Eisner** & S.R. Kulkarni, 2001, *Astrophysical Journal*, 550, 871

## INVITED TALKS

- **University of Virginia/NRAO** Joint UVa/NRAO Colloquium, May 2017
- **University of Arizona** Origins Seminar, March 2017
- **NRC Herzberg Institute of Astrophysics** Astronomy Colloquium, February 2015
- **University of Colorado** APS Colloquium, February 2015
- **Southwest Research Institute** Planetary Science Colloquium, October 2014
- **University of Colorado** CASA/JILA Seminar, October 2014
- **International Optical Interferometry Forum** Flagstaff AZ, March 2013
- **Lowell Observatory** Colloquium, December 2011
- **GMT Exoplanet Workshop, Harvard University** Invited Talk, October 2011
- **Tucson Amateur Astronomy Association** Invited Lecture, September 2011
- **Goldschmidt 2011, Prague** Invited Review, August 2011
- **ALMA Community Day, Tucson** Invited Talk, May 2011
- **Science with Optical Interferometry, Socorro, NM** Invited Review, March 2011
- **Harvard University CfA** Colloquium, February 2011
- **Harvard University ITC** Luncheon, February 2011
- **University of Arizona** Steward Public Lecture, November 2010



- **W.M. Keck Observatory** Public Astronomy Talk, November 2010
- **University of Chicago** Astronomy & Astrophysics Colloquium, October 2010
- **Cal Poly Pomona** Physics Seminar, January 2010
- **SUNY Stonybrook** Astronomy Seminar, July 2009
- **UCLA** Astronomy Colloquium, February 2009
- **NOAO** Flash Talk, October 2008
- **University of Arizona** Steward Observatory Internal Symposium, October 2008
- **University of Toronto** Astronomy Colloquium, September 2008
- **McMaster University** Origins Institute Colloquium, April 2008
- **California Institute of Technology** Astronomy Colloquium, October 2007
- **University of Virginia** Joint UVa/NRAO Colloquium, October 2007
- **NASA Ames Research Center** Astrophysics Colloquium, July 2007
- **University of Arizona** Astronomy Colloquium, May 2007
- **UC Berkeley** Joint EPS/Astronomy Colloquium, March 2007
- **Cornell University** Astronomy Colloquium, March 2007
- **University of Washington** Astronomy Colloquium, March 2007
- **University of Hawaii** IfA Colloquium, March 2007
- **Lawrence Livermore National Lab** IGPP Colloquium, February 2007
- **Carnegie Institution of Washington** DTM Colloquium, February 2007
- **NOAO** Future Directions for Interferometry Workshop, November 2006
- **UC Santa Cruz** Astronomy Colloquium, September 2006
- **UC Berkeley** Astronomy Colloquium, August 2006
- **Caltech/JPL** Michelson Summer Workshop, July 2006
- **UC Berkeley** SSL Colloquium, February 2006
- **UC Berkeley** Star Formation and ISM Seminar, February 2006
- **National Taiwan University** ASIAA Colloquium, September 2005
- **University of Leiden** Oort Workshop, July 2005
- **California Institute of Technology** IPAC Seminar, October 2004
- **Ringberg Castle, Germany** Protoplanetary Disks Workshop, April 2004

- **Jet Propulsion Laboratory** Astronomy Colloquium, March 2004
- **University of Arizona** Astrobiology Conference, January 2004

## CONTRIBUTED TALKS

- **Aspen Winter Conference on Exoplanets** Aspen, CO, March 2017
- **Exploring Strange New Worlds** Flagstaff, AZ, May 2011
- **CARMA Science Symposium** Berkeley, CA, February 2011
- **SPIE Astronomical Telescopes and Instrumentation** San Diego, CA, June 2010
- **Aspen Winter Conference on Astrophysics: Formation and Evolution of Black Holes** Aspen, CO, February 2010
- **Keck Science Meeting** Pasadena, CA, September 2009
- **Keck Science Meeting** Pasadena, CA, September 2007
- **Disks06** Vidago, Portugal, September 2006
- **The Disc-Planet Connection** Cambridge, UK, July 2006
- **From Disks to Planets** Pasadena, CA, March 2005

## SERVICE/OUTREACH

### University Service/Outreach

- Director of Graduate Studies; 2015-
- Academic Program Committee; 2015-
- Giant Magellan Telescope Science Advisory Committee; 2013-
- Prelim writing and examination committee; 2009-2010. Chair 2011-2012, 2018.
- Promotion & Tenure Committee; 2015-2017
- Performance Review Committee; 2017
- Student Oversight Committee Member, Conflict of Interest Program; 2017-2018.
- Chair of Strittmatter Fellowship Selection Committee; 2016
- Host of “LBT Tour + Salsa Fest” Outreach Event; 2016
- TRIF Imaging/Optics Committee; 2014-2016

- Astronomy Department scholarships committee; 2013
- MMT Strategic Planning Committee; 2013
- Faculty Search Committee; 2012-2013
- Reviewer of Packard Fellowship pre-proposals; 2012
- Graduate Admissions committee; 2008-2012, 2015-2016. Chair, 2010-2011.
- Contributed to graduate curriculum review; 2009
- Organized pre-colloquium discussion group for graduate students; 2008-2011
- Organized pre-colloquium discussion group for undergraduate students; 2010-2011
- Member of research exam committee for graduate students; 2009, 2011, 2012, 2013, 2014, 2016
- Member of PhD exam committee for graduate students; 2011, 2012, 2014, 2015
- Reviewer for Magellan AO project PDR and SDR; 2009-2010
- Mentor for CAMPARE student (exchange program between UA and Cal Poly Pomona); 2010, 2011, 2012, 2013, 2015
- Speaker at Arizona Astronomy Board meeting; 2008, 2012, 2015

### **Community Service/Outreach**

- Reviewer for Netherlands Organisation for Scientific Research Grants; 2017
- Scientific Organizing Committee, E<sup>3</sup>LT Conference; 2016
- Reviewer for NSF Astronomy & Astrophysics grants; 2010, 2014, 2015
- Reviewer for NSF Graduate Research Fellowship Program; 2016
- Reviewer for NSF International Research Fellowship Program; 2010
- Reviewer for NASA Postdoctoral Program; 2010, 2011, 2012, 2013, 2015
- Expert reviewer for NASA Origins Program; 2011, 2012, 2013
- Reviewer for NSERC Discovery Grants; 2011
- Organizing committee for “Future Directions of Interferometry” workshop; 2006
- Organizing committee and chair of multiple sessions at SPIE meeting; 2010
- Member of IAU commission 54 on Optical & Infrared Interferometry
- Member of US Interferometry Commission Future Developments subcommittee
- Refereed research articles for *The Astrophysical Journal*, *The Astronomical Journal*, *Astronomy & Astrophysics*, *Revista Mexicana de Astronomia y Astrophysica*, *Journal of Astronomical Instrumentation*, *Icarus*, and *Nature*; 2003-

- Served on the time allocation committee for the telescopes of *SOFIA*, *National Optical Astronomy Observatory*, *National Radio Astronomy Observatory*, *Arizona Radio Observatory*, *Steward Observatory*, *Combined Array for Research in Millimeter Astronomy*, and *Owens Valley Millimeter Array*; 2004-

### Media Appearances

- Quoted in *New Scientist*, discussing “synestia” mode of moon formation; 2018
- Article featured in *AZ Daily Star*, discussing early planet formation; 2018
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