

Joshua Eisner

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POSITIONS

Assistant Professor and Assistant Astronomer University of Arizona, 2008-
Project Scientist Keck Interferometer ASTRA Project, 2008-
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

EDUCATION

California Institute of Technology Ph.D. in Astrophysics, June 2005. Michelson Graduate Fellow.
Advisors: Lynne Hillenbrand and Anneila Sargent.
Cambridge University (Emmanuel College) Master of Philosophy in Physics, August 2000. 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.
Advisors: Lincoln Greenhill and James Moran.

HONORS AND AWARDS

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

LEAD AUTHOR REFEREED PUBLICATIONS

Spatially Resolved Mid-Infrared Imaging of the SR 21 Transition Disk 2009, ApJL, 698, L169
Spatially Resolved Spectroscopy of Sub-AU-Sized Regions of T Tauri and Herbig Ae/Be Disks
2009, ApJ, 692, 309
Proplyds and Massive Disks in the Orion Nebula Cluster Imaged with CARMA and SMA
2008, ApJ, 683, 304
**Near-Infrared Interferometric, Spectroscopic, and Photometric Monitoring of T Tauri Inner
Disks** 2007, ApJ, 669, 1072
Water vapour and hydrogen in the terrestrial-planet-forming region of a protoplanetary disk
2007, Nature, 447, 562
**Spectrally Dispersed K-Band Interferometric Observations of Herbig Ae/Be Sources: Inner
Disk Temperature Profiles** 2007, ApJ, 657, 347
**Stellar and Molecular Radii of a Mira Star: First Observations with the Keck Interferometer
Grism** 2007, ApJL, 654, L77
Spatially Resolving the Inner Disk of TW Hya 2006, ApJL, 637, L133

Massive Protoplanetary Disks in the Trapezium Region 2006, ApJ, 641, 1162
Constraining the Evolutionary Stage of Class I Protostars: Multi-wavelength Observations and Modeling 2005, ApJ, 635, 396
Observations of T Tauri Disks at Sub-AU Radii: Implications for Magnetospheric Accretion and Planet Formation 2005, ApJ, 623, 952
Resolved Inner Disks around Herbig Ae/Be Stars 2004, ApJ, 613, 1049
Distribution of Circumstellar Disk Masses in the Young Cluster NGC 2024 2003, ApJ, 598, 1341
Near-Infrared Interferometric Measurements of Herbig Ae/Be Stars 2003, ApJ, 588, 360
Detecting Outer Planets in Edge-On Orbits: Combining Radial Velocity and Astrometric Techniques 2002, ApJ, 574, 426
Outflow 20-2000 AU from a High-Mass Protostar in W51-IRS2 2002, ApJ, 569, 334
Sensitivity of the Astrometric Technique in Detecting Outer Planets 2001, ApJ, 561, 1107
Sensitivity of the Radial Velocity Technique in Detecting Outer Planets 2001, ApJ, 550, 871

INVITED TALKS

UCLA Astronomy Colloquium, February 2009
 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 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
 UC Santa Cruz Astronomy Colloquium, September 2006
 UC Berkeley Astronomy Colloquium, August 2006
 UC Berkeley SSL Colloquium, 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

CONFERENCE PROCEEDINGS

Probing Sub-AU Radii of Protoplanetary Disks with NIR Interferometry 2005, Proceedings of Protostars and Planets V, 8051
High Angular Resolution Studies of Young Circumstellar Disks 2005, BAAS, Vol. 36, No. 5, 156.05
Near-IR Interferometric Observations of Herbig Ae/Be Stars 2003, BAAS, Vol. 34, No. 4, 20.09
Combining Astrometric and Radial Velocity Techniques for Detecting Outer Planets 2001, BAAS, Vol. 33, No. 2, 62.09
SiO Masers, Water Masers, and Outflow in the W51-IRS2 star-forming region 1998, BAAS, Vol. 30, No. 4, 71.13

PROFESSIONAL SERVICE

Referee Refereed research articles for *The Astrophysical Journal*, *The Astronomical Journal*, *Astronomy & Astrophysics*, *Icarus*, and *Nature*
TAC Member Served on the time allocation committee for the *Very Large Array*, *Very Long Baseline Array*, *Combined Array for Research in Millimeter Astronomy*, and *Owens Valley Millimeter Array*

OBSERVING EXPERIENCE

Keck Interferometer 15 nights, 2003-2008
MMT 5 nights, 2008-2009
Gemini (TReCS) 2 nights, 2008
Gemini (LGS-AO) 2.25 nights, 2007
Combined Array for Research in Millimeter-wave Astronomy (CARMA) 4 weeks, 2005-2008
Sub-Millimeter Array (SMA) 1 week, 2005-2006
Shane 3-m (LGS-AO) 2 nights, 2006
Palomar Testbed Interferometer Approximately 50 nights, 2001-2004
Owens Valley Millimeter Array Approximately 25 nights, 2002-2004
Palomar 60-inch 12 nights, 2002-2004
Cambridge Optical Aperture Synthesis Telescope 10 nights, 2000
Cerro Tololo Inter-American Observatory 1.3m 7 nights, 2004
Palomar 200-inch (adaptive optics) 4 nights, 2002-2004
Green Bank Telescope 1 night, 2003
Very Long Baseline Array 1 night, 2004

HARDWARE EXPERIENCE

Keck Interferometer Design, purchase, and commissioning of grisms for spectrally dispersed interferometry; member of team implementing dual-star module for phase referencing and astrometry
Palomar Testbed Interferometer Installation and alignment of optics for new baseline; installation of delay-line rails; installation and alignment of new camera; routine system alignments and troubleshooting
Owens Valley Millimeter Array Troubleshooting, and fixing small problems; routine system alignments
CARMA Involved in commissioning and shared risk science
Cambridge Optical Aperture Synthesis Telescope Determined pointing models for siderostats; wrote and implemented observing and data reduction procedures for simultaneous 3-telescope operation; measured scintillation in beam-combiner lab; routine system alignments