

Andrea M. Ghez

Education:	California Institute of Technology , Ph.D., Physics	Sep 1992
	Massachusetts Institute of Technology , B.S., Physics	Jun 1987
Professional Appointments:	University of California Los Angeles	
	Lauren B. Leichtman & Arthur E. Levine Chair in Astrophysics	2009 - present
	Professor of Physics & Astronomy	2000 - present
	Associate Professor of Physics & Astronomy	1997 - 2000
	Assistant Professor of Physics & Astronomy	1994 - 1997
	University of Arizona, Steward Observatory	
	Hubble Postdoctoral Research Fellow	1992 - 1993
Awards and Honors:	University of Chicago Lab School Distinguished Alumni Award	2013
	Crafoord Prize in Astronomy, Royal Swedish Academy of Sciences	2012
	California Institute of Technology Distinguished Alumni Award	2012
	American Philosophical Society, elected	2012
	MacArthur Fellowship	2008
	Helen Hogg Distinguished Vistorship, University of Toronto	2008
	Aaronson Award, University of Arizona	2006
	National Academy of Sciences, elected	2004
	American Academy of Arts & Sciences, elected	2004
	Sackler Prize, University of Tel Aviv	2004
	UCLA Gold Shield Prize	2004
	Maria Goeppert-Mayer Award, American Physical Society	1999
	Newton Lacy Pierce Prize, American Astronomical Society	1998
	Outstanding Teaching Award, UCLA Physics Department	1997,1998,2005,2010
	Packard Fellowship	1996
	Sloan Fellowship	1996
	Annie Jump Cannon Award, AAS & AAUW	1994
Distinguished Lectureships:	National Science Foundation, Distinguished Lecturer	2014
	Henry Primakoff Lectureship, University of Pennsylvania	2014
	Mark Gurevitch Lectureship, Portland State University	2014
	McPherson Lectureship, McGill University	2013
	Brinson Lectureship, University of Chicago	2013
	John Bahcall Lectureship, Space Telescope Science Institute	2013
	Icko Iben, Jr. Distinguished Lecturer, University of Illinois	2012
	Bishop Lecturer, Columbia University	2012
	Bunyan Lecturer, Stanford	2012
	Sackler Lecturer, UC Berkeley	2011
	Whitford Lecturer, University of Wisconsin	2010
	Bruno Rossi Lecturer in Astrophysics (MIT)	2009
	First Eddington Lecturer, Cambridge University/RAS	2009
	Helen Hogg Distinguished Vistorship	2008
	Sackler Lecturer, Leiden University	2007
	Sackler Lecturer, Harvard University	2007
	UCLA Faculty Research Lecturer Award	2003

Service:	<i>National Research Council Committees</i>	
<i>post 2004</i>	Astronomy and Astrophysics Decadal Survey Panels	
	Optical/IR from the Ground Panel	2009-2010
	Astronomy Decadal Survey Chair Search, member	2008
	Board on Physics and Astronomy, member	2004-2010
	 <i>National Academies of Science Committees</i>	
	TNG Nominating Committee, chair	2014
	TNG Nominating Committee, member	2013
	Astronomy Nominating Committee, co-chair	2007-2010, 2012-2013
	Class Membership Committee, member	2010-2011, 2013
	James Craig Watson Medal Selection, member	2009, 2011
	James Craig Watson Medal Selection, chair	2013
	Henry Draper Medal Selection, member	2008
	Award for Scientific Reviewing Selection, member	2007
	Representative member of USNC-IAU Committee	2005-2007
	 <i>American Astronomical Society Committees</i>	
	Henry Norris Russell Lectureship Selection, member	2009, 2011
	Henry Norris Russell Lectureship Selection, chair	2010
	Warner/Pierce Prize Committee, member	2004-2005
	Warner/Pierce Prize Committee, chair	2006
	 <i>Thirty Meter Telescope Committees</i> <i>(UC-Caltech-Canada-Japan-China-India)</i>	
	UC TMT Fundraising Committee, member	2014
	Science Advisory Committee, UC rep.	1999 - 2013
	IRIS Instrument Working Group, member	2008 - present
	Astrometry Advisory Group member	2012 - present
	Instrument Feasibility Proposal Review, member	2005
	 <i>Keck Observatory Committees</i> <i>(UC-Caltech-NASA)</i>	
	Science Steering Committee, UC rep.	2010 - present
	Keck 20th Anniversary Meeting Science Planning Group, UC rep.	2012-2013
	Adaptive Optics Working Group, chair	2012
	Strategic Planning Committee, UC rep.	2008, 2014
	University of California Time Allocation, member	1999 - 2008

Service	<i>Other National Committees</i>	
(con't):	The Magellenic Premium Prize Selection Cmte (Am. Phil. Soc.), member	2013
<i>post 2004</i>	California Science Center, Technical Advisory Panel for the Samual Oschin Air and Space Center	2012
	Am. Acad. of Arts & Science Astro. Nominating Comm., member	2004-5,2007,2009,2011
	Center for Adaptive Optics, NSF Science & Technology Center Associate Director for Astronomical Science	1999-2009
	General Member of the Aspen Center for Physics	2004-2008
	Aspen Center for Physics Colloquium Committee, member	2008
	Aspen Center for Physics Summer Prog. Selection Comm., member	2005
	NASA's SPITZER Space Telescope Time Allocation, chair	2005
	 <i>University of California (UC) System-wide Committees</i>	
	UC Observatory Advisory Committee, member	2012 - present
	UC Astronomy Task Force, member	2011
	Research Strategies Working Group of UC Commission on the Future, member	2009 - 2010
	UC Observatories Director Search Committee, member	2005-2006
	 <i>UCLA Campus-wide Committees</i>	
	Early Care & Education Director Search	2014
	Committee on Faculty Research Lectureship, chair	2007-2008, 2014-2015
	Committee on Faculty Research Lectureship, member	2006, 2013
	Gold Shield Faculty Prize Selection Committee, member	2006-2007, 2013
	Vice Provost for Diversity & Faculty Development Search	2010
	Exec. Vice Chancellor & Provost Advisory Search Committee	2008
	Provost's Committee on Facult Work/Life Issues	2008-2009
	Faculty Welfare Subcommittee on Childcare, member	2006-2008
	Early Care and Education Advisory Board, member	2005-2012
	UCLA Lab School Advisory Board, member	2010-2014
	Research Advisory Council, member	2004-5
	 <i>UCLA Department of Physics and Astronomy</i>	
	Astronomy Colloquium Committee	2008 - present
	Physics Colloquium Committee	2010-2012
	Policy & Appointments Committee, member	2007, 2010-11
	Faculty Search Committees	
	Astrodynamics, chair	2012-2013
	Extra-galactic Search, co-chair	2006-2007
	Computing Resources Manager Interview Committee, member	2006-7
	Physics & Astronomy Computer Committee, member	2007, 2009-2010
	Graduate Recruitment Committee, member	2004-2005, 2007
	 <i>UCLA Institute for Geophysics and Planetary Sciences</i>	
	Futures Committee	2007 - 2008
	Education & Fellowship Committee, chair	2005 - 2007
	Education & Fellowship Committee, member	2008
	Faculty Search (G1), member	2008

Research Advising:*Post Doctoral Researchers*

Lisa Prato	1998-2000
Gaspard Duchene	2000-2004
Elise Furlan (NRC Fellow)	2006-2008
Andrea Stolte	2006-2008
Jörg-Uwe Pott (Keck/UCLA)	2007-2009
Marshall Perrin (NSF Fellow)	2007-2010
Nate McCrady	2008-2009
Leo Meyer (DFG Fellow)	2008-2009
Will Clarkson	2008-2010
Sylvana Yelda	2012-2014
Gunther Witzel	2012-

Graduate Students (PhD Projects)

Jennifer Patience	PhD 1999
Russel White	PhD 1999
Angelle Tanner	PhD 2004
Caer McCabe	PhD 2004
Seth Hornstein	PhD 2006
Jessica Lu	PhD 2009
Quinn Konopacky	PhD 2009
Tuan Do	PhD 2010
Sylvana Yelda	PhD 2012
Breann Sitarksi	(PhD 2015)

Graduate Students (MS Projects only)

Beth Klein	MS 1995
Mike Berkovitch	MS 1996
Suvi Gezari	MS 2001
Shelley Wright	MS 2004
Marc Rafelski	MS 2006
Kim Phifer	MS 2013
Anna Boehle	MS 2014
Sam Chappell	(MS 2015)

Undergraduate Students

Tracy Beck	1994-1995
Mia Smith	1996
Marlon Jimenez	1996
Jason Weis	1997
Nairn Baliber	1997-1998
Whitney Raas	1998-2000
David Sand	1997-2000
Ted Kremenek	1998-2001
Louis Levenson	2000-2001
Michele Carpenter	2002
Amanda Young (UCSC)	2002
Priya Sheth	2002-2003
Hamadi Macintosh	2003
Fabio Altenbach	2003-2005
Javiera Guedes (UCB)	2004
Lia Corrales (Harvey Mudd)	2005
Jill Naiman	2005-2006
James Dunn	2006-2008
Hal Cambier (Univ. of Oregon)	2006
Ryan Trainor (UC Irvine)	2007
Claire Dorman (UC Berkeley)	2008
Kim Phifer (Butler University)	2009
Anna Boehle (Smith College)	2010
Josefa Baker	2010
Nara Higano (Gustavus Adolphus)	2011
Ruizhu Chen (Nanjing University)	2011
Carina Cheng	2011-2013
Michelle Kelly (Univ. of Ill.)	2012
Vaishali Parkash (Union College)	2013
Sandra Albers	2013-
Isabel Lipartito (Smith College)	2014

High School Students

Simone Kleine (Marlborough)	2002
Katie Love-Cooksey (Marlborough)	2005-2006
Christopher Ballard (Harvard-Westlake)	2007
Ryan Yoo (Homeschooled/UCLA)	2010-2011
Stephanie Lega (Van Nuys)	2009

Features or Entries in Education & Public Outreach Products: *selected post 2004*

Documentaries & Other Television or Radio Productions:

Earth & Sky Radio Series (Jorge Salazar), July 2005
NOVA, “Monster of the Milky Way (Tom Lucas), first aired Oct 31 2006
History Channel, “The Universe”, first aired Aug 20, 2007
History Channel, “Einstein and The Two Eclipses”, first aired Nov 17 2008
PBS TV, “Here.Now.UCLA”, first aired Sept 25 2008
National Geographic, “Known Universe”, (Coll Metcalfe), first aired April 2010
BBC World Service radio show “The Forum”, recorded July 20 2009
Discovery, “How the Universe Works”, (Peter Chinn & Zoe Elliott), first aired May 25 2010
National Geographic, “Inside the Milky Way”, 2010 (N. America)
National Geographic, “Journey Through the Milky Way”, 2011 (UK, France, Germany)
NHK Japan TV “Black Hole part 2: Super Massive Black Hole”, first aired June 2012
BBC Horizon, “Swallowed by a Black Hole”, first aired June 2013
NPR, “Morning Edition” on adaptive optics (Joe Palco), June 24 2013
NPR, “All Things Considered” on black holes (Joe Palco), first aired July 2013
Warner Entertainment, Documentary companion to “Interstellar” by Christopher Nolan (Gail Willumsen & Jill Shinefield), Nov 2014
Discovery, “Strip the Cosmos”, (Duncan Bulling) Nov 2014

Museum Exhibits and Shows:

Addler Planetarium, video interview and material in Museum exhibit (Grace Wolfe)
Planetarium show “Black Holes: The Other Side of Infinity produced by the Denver Museum of Nature and Science in association with the PBS science series, NOVA (2006)
Griffith Observatory exhibit (opened 2006, Los Angeles, CA)
Ontario Science Center exhibit (opened July 2007, Toronto Canada)
National Academy of Sciences Keck Building exhibit
Smithsonian Astrophysical Observatory traveling museum exhibition about black holes
“ThePosterProject, Visualizing Women in Science, Mathematics and Engineering,” (P. D. Kivelson)

Popular Magazine/Newspaper/Web Articles:

ScienceCareers.org, “Changing Faces of Astronomy” (January 2006)
My Hero website, piece by J. L. Lee, 2006
Smithsonian Magazine cover story, “Homing in on Black Holes” by Robert Irion (April 2008)
Discovery Magazine & on-line video, “The Mysteries of the Cosmos” (May 2009)
Edutopia.org, interview (March 2009)
National Geographic magazine, “Evolution of telescopes”, by Timothy Ferris (July 2009)
StarDate, Black Hole Encyclopedia website (July 2011)
“UCLA: The First Century”, commemorative book (Oct 2011)
MinutePhysics Video “What are years...and the galactic supermassive black hole!” (Feb 2012)
Pacific Standard magazine, (May 1 2012, inaugural issue)
Time magazine, “25 most influential people in space” (Oct 2012)
Nature, profile by Anne Finkbeiner (March 2013)
Science, “Decade of the Monster” by Ron Cowen (March 2013)
UCLA Centennial Campaign, “Let There Be” video (May 2014)

Textbooks:

- “Principles of Astrophysics” by Marc Kutner, 1st edition, Cambridge UP, Undergraduate Introductory Astronomy Textbook for Science Majors
- “The Cosmos: Astronomy in the New Millennium” by Pasachoff & Filippenko, 2nd edition, Hartcourt College Publishers, Undergraduate Introductory Text for Non-Science Majors
- “My Astronomy: From the Earth to the Universe” by Pasachoff, 6th edition, Saunders College Publishing, Undergraduate Introductory Text for Non-Science Majors
- “Gravity: An Introduction to Einstein’s General Relativity” by Hartle, 1st edition, Addison-Wesley, Undergraduate General Relativity Textbook
- “The Milky Way System” by Kuehn, S. Hirzel Verlag Stuttgart, Popular Science
- “Astronomy Today” by Chaisson & McMillan, 4th edition, Prentice Hall, Undergraduate Introductory Text for Non-Science Majors
- “Explorations: An Introduction to Astronomy, Stars First” by Arny, 1st edition, McGraw-Hill, Undergraduate Introductory Text for Non-Science Majors
- “Understanding the Universe: An Introduction to Astronomy” by Alex Filippenko, 2007 edition, The Teaching Company, Undergraduate Introductory DVD course for Non-Science Majors
- “Astrophysics in a Nutshell” by Dan Maoz, 1st edition (2007), Princeton University Press, Upper division undergraduate introduction to astrophysics for physics majors
- “Astronomy Notes” By Nick Strobel, 1st edition, Primis/McGraw-Hill, Undergraduate Introductory Text, hardcopy and on-line (<http://www.astronomynotes.com>) versions
- “Relativity, Astrophysics and Cosmology” by Radoje Belusevic, 1st edition, Wiley 2008 a comprehensive introduction to modern astrophysics and cosmology for advanced undergraduates or graduate students
- “Gravity’s Fatal Attraction: Black Holes in the Universe” by Mitch Begelman and Martin Rees, 2nd edition, Cambridge University Press (2009)
- “High Energy Astrophysics” by Malcolm Longair, 3rd edition Cambridge University Press 2011
- “What if the Earth Had Two Moons? And Nine Other Thought-Provoking Speculations on the Solar System” by Neil F. Comins, St. Martin’s Press, 1st ed. (2010)
- “University Physics” by Young and Freedman, Pearson Science 13th ed. (2011)
- “High Energy Astrophysics” by M. Longair, 3rd ed Cambridge University Press (2011)
- “General Relativity without Calculus” by Jose Natario, Springer (2011)
- “The Universe in 100 Key Discoveries” By Giles Sparrow, Quercus (2012)
- “University Physics with Modern Physics” by Wolfgang Bauer & Gary Westfall, 2nd edition, McGraw-Hill Higher Education (2013)
- “Black Holes” by Katherine Blundell, Oxford University Press Very Short Introduction Series (2013)
- “Behind the Scenes of the Universe: From the Higgs to Dark Matter” by Gianfranco Bertone, Oxford University Press (2013)
- “University Physics” (Spanish translation) by Young & Freedman, Pearson Science 13th ed. (2013)
- “The Mathematical Theory of Special and General Relativity” by Ashok N. Katti (cover image), CreateSpace Independent Publishing Platform; First edition (2013)
- “Units of Mass” video piece for Discovery Education’s on-line high school text book (2014)
- “Principles of Astrophysics: Using Gravity and Stellar Physics to Explore the Cosmos,” by C. Keeton, Springer (2014)

Publication List:

1. Nakajima, T., Kulkarni, S., Gorham, P., Ghez, A., Neugebauer, G., Oke, J.B., Prince, T., and Readhead, A.C.S., 1989, "Diffraction Limited Imaging II: Optical Aperture Synthesis Images of Two Binary Stars," *AJ*, 97, 1510
2. Gorham, P., Ghez, A., Kulkarni, S., Nakajima, T., Neugebauer, G., Oke, J.B., Prince, T., and Readhead, A.C.S. 1989, "Diffraction Limited Imaging III: 30 Milliarcsecond Closure Phase Imaging of Six Binary Stars With the Hale 5 m Telescope," *AJ*, 98, 1783
3. Gorham, P., Ghez, A., Haniff, C., and Prince, T. 1990, "Recovery of Diffraction-Limited Object Autocorrelations from Astronomical Speckle Interferograms Using the CLEAN Algorithm," *AJ*, 100, 294
4. Ghez, A., Kulkarni, S., Matthews, K., Neugebauer, G., Prince, T., and Weir, N. 1990, "Infrared Speckle Imaging at Palomar," in proceedings of S.P.I.E. Symposium on Astronomical Telescopes and Instrumentation for the 21st Century, 1237, 249
5. Weir, N., Ghez, A., Kulkarni, S., Matthews, K., and Neugebauer, G. 1990, "Infrared Non-redundant Mask Imaging at Palomar," in proceedings of S.P.I.E. Symposium on Astronomical Telescopes and Instrumentation for the 21st Century, 1237, 274
6. Ghez, A., Neugebauer, G., Gorham, P., Haniff, C., Kulkarni, S., Matthews, K., Koresko, C., and Beckwith, S. 1991, "Diffraction Limited Infrared Images of the Binary Star T Tauri," *AJ*, 102, 2066
7. Koresko, C., Beckwith, S., Ghez, A., Matthews, K., and Neugebauer, G. 1991, "An Infrared Companion to Z Canis Majoris," *AJ*, 102, 2073
8. Haniff, C., Ghez, A., Gorham, P., Kulkarni, S., Matthews, K., and Neugebauer, G. 1991, "Optical Aperture Synthetic Images of the Photosphere and Molecular Atmosphere of Mira," *AJ*, 103, 1662
9. Gorham, P., Ghez, A., Haniff, C., Kulkarni, S., Matthews, K., and Neugebauer, G. 1991, "A Search For T Tauri's Optical Companion Star," *AJ*, 103, 953
10. Ghez, A., Neugebauer, G., and Matthews, K. 1992 "A Two Dimensional Near-Infrared Speckle Imaging Survey of T Tauri Stars in Taurus and Ophiuchus," in *Complementary Approaches to Double and Multiple Star Research*, IAU Colloquium No. 135, p. 1
11. Koresko, C., Beckwith, S., Ghez, A., Matthews, K., and Herbst, T. 1993, *AJ*, 105, 1481
12. Simon, M., Ghez, A., and Leinert, Ch, 1993, "Multiplicity and the Ages of the Stars in the Taurus Star Forming Region," *ApJLett*, 408, L33
13. Ghez, A. M., Neugebauer, G., and Matthews, K. 1993, "The Frequency of T Tauri Companion Stars," *PASP*, 105, 1
14. Ghez, A. M., Neugebauer, G., and Matthews, K. 1993, "The Multiplicity of T Tauri Stars in the Taurus-Auriga and Ophiuchus-Scorpius Star Forming Regions: A 2.2 μm Imaging Survey," *AJ*, 106, 2005
15. Ghez, A. M., McCarthy, D. W., Weinberger, A. J., Neugebauer, G., Matthews, K. 1994, "A Near Infrared Speckle Imaging Study of T Tauri Stars: Orbital Motion," in "Infrared Astronomy With Arrays: The Next Generation", *Experimental Astronomy*, ed. I. S. McLean, p. 449
16. Lloyd-Hart, M., Colucci, D., Wittman, D., McLeod, B., Ghez, A., McCarthy, D., Dekany, R., and Angel, R. 1993, "Diffraction Limited K Band Imaging at the Multiple Mirror Telescope with Adaptive Optics," in proceedings of S.P.I.E. Symposium on Active and Adaptive Optical Components and Systems II, vol. 1920, p. 338
17. Ghez, A. M., Emerson, J. P., Graham, J. R., Meixner, M., and Skinner, C. J. 1994, "10 μm Imaging of UZ Tau: Evidence For Circumstellar Disk Clearing Due to a Close Companion

- Star,” *ApJ*, 434, 707
18. Colucci, D., Lloyd-Hart, M., Wittman, D., Angel, R., Ghez, A., McCleod-B. 1994, “A Reflective Shack-Hartmann Wave-Front Sensor For Adaptive Optics,” *PASP*, 106, 1104
 19. Ghez, A. M., McCarthy, D. W., Jr., Weinberger, A. J., Neugebauer, G., and Matthews, K. 1994, “Close Companions to T Tauri Stars: Abundant and Perturbing,” in “Interacting Binary Stars”, *ASP Proceedings*, ed. A. Shafter
 20. Simon, M., Ghez, A. M., Leinert, Ch., Cassar, L., Chen, W. P., Howell, R. R., Jameson, R. F., Matthews, K., Neugebauer, G., & Richichi, A. 1995, “A Lunar Occultation & Direct Imaging Survey of Multiplicity in the Ophiuchus and Taurus Star Forming Regions” *ApJ*, 443, 625
 21. Jura, M., Ghez, A. M., White, R. J., McCarthy, D. W., Smith, R. C., and Martin, P. G. 1995, “The Fate of the Solid Matter Orbiting HR 4796A,” *ApJ*, 445, 451
 22. Ghez, A. M., Weinberger, A. J., Neugebauer, G., Matthews, K., and McCarthy, D. W. 1995, “Speckle Imaging Measurements of the Relative Tangential Velocities of the Components of T Tauri Binary Stars,” *AJ*, 110, 753
 23. Ghez, A. M. and Cohen, J., 1995, “You Can Be A Woman Astronomer,” Cascade Pass, Inc. 1-880599-17-1
 24. Liu, M. C., Graham, J. R., Ghez, A. M., Meixner, M., Skinner, C. J., Keto, E., Ball, R., Arens, J. F., & Jernigan, J. 1996, *ApJ*, “Mid-Infrared Imaging of Young Stellar Objects,” 461, 334
 25. Ghez, A. M. 1996, “Young Binary Stars,” invited review article in proceedings of NATO/ASI on Evolutionary Processes in Binary Stars, 477, 1
 26. Matthews, K., Ghez, A. M., Weinberger, A. J., and Neugebauer, G. 1996, “The First Diffraction-Limited Images from the W. M. Keck Telescope,” *PASP*, 108, 615
 27. Klein, B. K., Ghez, A. M., Morris, M., and Becklin, E. E. 1996, “2.2 μm Keck Images of the Galaxy’s Central Stellar Cluster at 0.''05 Resolution,” in the 4th CTIO/ESO Workshop on “The Galactic Center”
 28. Padgett, D. L., Strom, S. E., and Ghez, A. M. 1997, “Hubble Space Telescope WFPC2 Observations of the Binary Fraction Among Pre-Main Sequence Cluster Stars in Orion,” *ApJ*, 477, 705
 29. Ghez, A. M., McCarthy, D. W., Patience, J.L., and Beck, T.L. 1997, “The Multiplicity of T Tauri Stars in Southern Star Forming Regions,” *ApJ*, 481, 378
 30. Marcy, G., Butler, P., Williams, E., Bildsten, L., Graham, J.R., Ghez, A. M., and Jernigan, G. 1997, “The Planet around 51 Pegasi,” *ApJ*, 481, 926
 31. Ghez, A. M., White, R. J., and Simon, M. 1997 “High Spatial Resolution Imaging of Pre-Main-Sequence Binary Stars: Resolving the Relationship Between Disks and Close Companions,” *ApJ*, 490, 353
 32. Ghez, A. M. 1998 “Pre-Main Sequence Binaries: Formation, Evolution, and Interaction with Disks,” invited review article in *ORIGINS*, Proceedings of the International Conference, Astronomical Society of the Pacific Conf. Series, Vol. 148, eds. C.E. Woodward, J.M. Shull, and H.A. Thronson, Jr.
 33. Patience, J. L., Ghez, A. M., Ried, I. N., Weinberger, A., and Matthews, K. 1998 “The Multiplicity of the Hyades and its Implications for Binary Star Formation and Evolution”, *AJ*, 115, 1972
 34. Ghez, A. M., Klein, B. L., Morris, M., and Becklin, E. E. 1998, “High Proper Motions in the Vicinity of Sgr A*,” in proceedings of IAU Symp. No. 184 “The Central Region of the Galaxy and Galaxies”, ed. Y. Sofue

35. Becklin, E. E., Morris, M., Figer, D., Ghez, A. M., Puetter, R., and Jones, B. 1998, "12.5 μm Imaging of Sgr A West With the Keck Telescope," in proceedings of IAU Symp. No. 184 "The Central Region of the Galaxy and Galaxies", ed. Y. Sofue
36. Figer, D. F., Najarro, F., Morris, M., McLean, I. S., Geballe, T. R., Ghez, A. M., and Langer, N. 1998, "The Pistol Star," *ApJ*, 506, 384
37. Ghez, A. M., Klein, B. L., Morris, M., and Becklin, E. E. 1998, "High Proper Motion Stars in the Vicinity of Sgr A*: Evidence for a Supermassive Black Hole at the Center of Our Galaxy," *ApJ*, 509, 678
38. Ghez, A. M., Klein, B. L., Morris, M., and Becklin, E. E. 1998, "High Proper Motion Stars in the Vicinity of Sgr A*: Evidence for a Supermassive Black Hole at the Center of Our Galaxy," to appear in "Observational Evidence for Black Holes in the Universe," ed. S. K. Chakrabarti
39. Wood, K., Crosas, M., and Ghez, A. M. 1999, "GG Tauri's Circumbinary Disk: Models for Near Infrared Scattered Light Images and Molecular Line Profiles," *ApJ*, 516, 335
40. Gibbard, S. G., Macintosh, B., Gavel, D., Max, C. E., de Pater, I., Ghez, A. M., Young, E. F., and McKay C. P. 1999, "Titan: High-Resolution Speckle Images from the Keck Telescope" *Icarus*, 139, 189
41. Ghez, A. M., Morris, M., and Becklin, E. E. 1999, "Dynamical Evidence for a Supermassive Black Hole at the Center of the Milky Way," Invited review in A.S.P. proceedings of "Galaxy Dynamics" eds. J. Sellwood and D. Merritt, Vol. 182, p. 24
42. White, R. J., Ghez, A. M., Reid, I. N., and Schultz, G. 1999, "A Test of Pre-Main Sequence Evolutionary Models Across the Stellar/Substellar Boundary Based on Spectra of the Young Quadruple GG Tau," *ApJ*, 520, 811
43. Morris, M., Ghez, A. M., and Becklin, E. E. 1999, "The Galactic Center Black Hole: Clues for the Evolution of Black Holes in Galactic Nuclei," *Advances in Space Research*, 23, 959
44. Tanner, A. M., Ghez, A. M., Morris, M., and Becklin, E. E. 1999, "Spatially Resolved Dust Shells in the Central Parsec," in "The Central Parsecs of the Galaxy," ASP Conf. Series, Vol. 186, p. 351, eds. H. Falcke et al.
45. Cotera, A., Ghez, A. M., Stolovy, S., Morris, M., and Becklin, E. E. 1999, "Mid-Infrared Observations of Sgr A West from Keck," in "The Central Parsecs of the Galaxy," ASP Conf. Series, Vol. 186, p. 240, eds. H. Falcke et al.
46. Ghez, A. M., Morris, M., and Becklin, E. E. 1999, "High Proper Motion Stars in the Vicinity of Sgr A*," in "The Central Parsecs of the Galaxy," ASP Conf. Series, Vol. 186, p. 18, eds. H. Falcke et al.
47. Beck, T. L., Simon, M., Ghez, A. M., Prato, L., & Howell, R. R. 2000, "The Near IR and Ice-band Variability of T Tau and Haro 6-10," in "Birth & Evolution of Binary Stars", Poster Proceedings of IAU Symposium No. 200 on The Formation of Binary Stars, eds. B. Reipurth & H. Zinnecker, p. 51.
48. Prato, L., Ghez, A. M., Pina, R. K., Tesesco, C. M., Fisher, R., Wizinowich, P., Lai, O., Acton, D. S., and Stomski, P., "Keck Diffraction-Limited Imaging of the Young Quadruple Star System HD 98800," in "Birth & Evolution of Binary Stars", Poster Proceedings of IAU Symposium No. 200 on The Formation of Binary Stars, eds. B. Reipurth & H. Zinnecker, p. 65.
49. McCabe, C. and Ghez, A. M. 2000, "A Detailed Study of the GG Tau Circumbinary Disk," in "The Formation of Binary Stars," Poster Proceedings of IAU Symp. 200, eds. B. Mathieu and H. Zinnecker, p. 80
50. Tesesco, C. M., Fisher, R. S., Pina, R. K., Knacke, R. F., Dermott, S. F., Wyatt, M. C., Grogan, K., Ghez, A. M., Prato, L., Hartmann, L. W., and Jayawardhana, R. 2000, "Deep

- 10 and 18 micron Imaging of the HR4796A Circumstellar Disk: Transient Dust Particles and Tentative Evidence for a Brightness Asymmetry” *ApJ*, 530, 329
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