

Andrea M. Ghez

Curriculum Vitae (updated September 4, 2020)

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Education:	California Institute of Technology, Ph.D., Physics	1992
	Massachusetts Institute of Technology, B.S., Physics	1987
Professional Appointments:	University of California Los Angeles	
	Founding Director, Galactic Center Orbits Initiative	2014 - present
	Lauren B. Leichtman & Arthur E. Levine Chair	2009 - present
	Distinguished Professor of Physics & Astronomy	2012 - present
	Professor of Physics & Astronomy	2000 - present
	Associate Professor of Physics & Astronomy	1997 - 2000
	Assistant Professor of Physics & Astronomy	1994 - 1997
	Hubble Postdoctoral Research Fellow, University of Arizona	1992 - 1993
Awards & Honors:	Nobel Prize in Physics	2020
	Science and Education Pioneer Award at UCLA	2020
	American Astronomical Society Fellow, Inaugural Class	2020
	American Physical Society Fellow	2019
	Honorary Doctorate of Science, University of Oxford	2019
	Teaching Award, UCLA Dept. of Physics & Astronomy	2019
	Sven Berggren Prize, Royal Physiographic Society, Sweden	2017
	UCLA Women's Faculty Club Woman of Distinction	2017
	Bakerian Medal, The Royal Society of London	2016
Selected, Recent Distinguished Lectures:	Strumm Lecture, Wesleyan University	2019
	UC Investment Forum, Dinner Lecturer, UCLA	2019
	American Physical Society Plenary Lecture	2019
	Heinz Pagels Memorial Lecture, Aspen Center for Physics	2018
	World Science Festival, New York	2018
	Las Cumbres Observatory, Santa Barbara	2018
	Pappalardo Lecture, MIT	2017
	Brickwedde Lecture, Johns Hopkins	2017
	Heilborn Lecture, Northwestern University	2017
	Ford Lecture, University of Michigan	2017
	Royal Swedish Academy of Sciences Annual Lecture, Sweden	2016
	Gruber Science Fellow Lecture, Yale	2016
	Welsh Lecture, University of Toronto, Canada	2016
	Angstrom Lecture, U. Uppsala /Royal Swedish Acad. of Sci.	2015
	Walter Stibbs Lecturer, University of Sydney, Australia	2015

Recent Service Work

National Committees:	NAS Award for Scientific Discovery Selection Committee	2020 – <i>present</i>
	AAS Heineman Prize Selection Committee	2020 – <i>present</i>
	NRC Astro2020 Optical/Infrared Committee	2019 - <i>present</i>
	The Kavli Prize Committee	2019 - <i>present</i>
	MPIA Scientific Advisory Committee	2019 – <i>present</i>
	NAS Physics ACG Nominating	2015 - <i>present</i>
	NAS Award for Scientific Reviewing Selection	2018
	Heising-Simons Physics & Astronomy Leadership Council	2017 - 2019
	External Review Cmte, Dept of Astronomy UCSC	2016
	Am. Acad. of Arts & Science Astronomy Nominating	2016
	Aspen Center for Physics, Meeting Science Organizing	2014 - 2016 (co-chair)
	NAS Class Membership	2013, 2015
	Kavli Frontiers Service Review Panel	2014
	James Craig Watson Medal Selection, NAS	2013 (chair), 2015-16
	NAS-TNG Nominating	2013, 2014 (chair)
	NAS Astronomy Nominating	2012 - 2013 (co-chair)
Magellanic Premium Prize Selection, Am. Phil. Society	2013	
UC System-Wide Committees:	UC Observatory Advisory, UCLA Representative	2012 - <i>present</i>
	TMT-International Science Definition Team, Black Holes	2013 - <i>present</i>
	UC TMT Fundraising	2014 - <i>present</i>
	W. M. Keck Observatory AO Science Council	2017 - 2018 (chair)
	W. M. Keck Observatory Science Steering	2010 - 2018
	W. M. Keck Observatory Strategic Planning	2014
	W. M. Keck Observatory Director Search	2014
	UC Observatories Director Search	2014
	TMT Science Advisory	1999 - 2013
Campus-Wide or Division Committees:	Faculty Research Lectureship Selection chair	2014-5, 2019- <i>present</i>
	member	2017 - 2019
	Physical Sciences Diversity	2015 - <i>present</i> Executive
	Vice Chancellor Search	2019
	Vice Chancellor for Academic Personnel Search	2017
	Molecular Biology Institute Review	2017
	Geffen Academy Working Group	2015 - 2017
	Gold Shield Faculty Prize Selection	2016
	Early Care & Education Director Search	2014
	UCLA Lab School Advisory Board, member	2010 - 2014
Department Committees:	Development/Fund-raising	2019 - <i>present</i>
	Ranking	2020 - <i>present</i>
	Astro Comprehensive Exam	2020 - <i>present</i>
	Prize Nominating	2015 - 2020
	Physics Colloquium	2010 - 2020
	Academic Affairs	2018 - 2019
	Jura Memorial Graduate Award Selection	2018 (chair)
	Faculty Search Cmte, Astro-Observer	2017 - 2018 (chair)
	Policy & Appointment	2007, 2010-11, 2017
Astronomy Colloquium Cmte	2008 - 2015	

Research Group Members (current & former):

Research Scientists & Project Scientists

Shoko Sakai	2015-present
Tuan Do	2014-present
Greg Martinez	2014-present
Gunther Witzel	2015-2018
Leo Meyer	2011-2014

Mark Rafelski	MS 2006
Kim Phifer	MS 2013
Anna Boehle	MS 2014
Sam Chappell	MS 2016
Rory Bentley	(MS 2021)

Post Doctoral Researchers

Lisa Prato	1998-2000
Gaspard Duchene	2000-2004
Elise Furlan (NRC Fellow)	2006-2008
Andrea Stolte	2006-2008
Jorg-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	2012-2015
Aurelien Hees	2016-2017
Anna Ciurlo	2016-present
Matthew Hosek	2017-present

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 Sitarski	PhD 2016
Devin Chu	(PhD 2020)
Abhimat Guatam	(PhD 2020)
Zhuo Chen	(PhD 2022)
Kelly Kosmo O'Neal	(PhD 2023)

Graduate Students (MS Projects only)

Beth Klein	MS 1995
Mike Berkovitch	MS 1996
Suvi Gezari	MS 2001
Shelley Wright	MS 2004

Undergraduate Students & Lab Assistants

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); Michele Carpenter
 (2002); Louis Levenson (2000-2001); 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 (U. 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 Univ.,
 2011); Carina Cheng (2011-2013); Michelle
 Kelly (Univ. of Ill., 2012); Vaishali Parkash
 (Union College, 2013); Sandra Albers
 (2013-2015); Isabel Lipartito (Smith, 2014);
 Zhou Chen (Nanjing Univ., 2015); Joseph Ahn
 (2015); Chris O'Connor (2016); Kelly Kosmo
 (2016-2017); John Mangian (2017); Arezu
 Dehghanfar (2016-2018); Rebecca Lewis
 (2019-present); Alex (Shizhe) Chen
 (2019-present); Ethan Cochran (2019-present),
 Max Kroft (2020-present), Asad Ukani
 (2020-present)

High School Students

Simone Kleine (Marlborough, 2002); Katie
 Love-Cooksey (Marlborough, 2005-6);
 Christopher Ballard (Harvard-Westlake, 2007);
 Ryan Yoo (Homeschool/UCLA, 2010-11);
 Stephanie Lega (Van Nuys, 2009); Mateo Godoy
 (Brentwood, 2015), Ian Watts
 (Harvard-Westlake, 2015)

Selection of Public Outreach Products:

Features in Documentaries, Museum Exhibits & Other Public Forums:

- IMAX, “Einstein’s Incredible Universe” (Daniel Ferguson), filming began 2017, expected completion 2021
- NOVA, “Black Hole Apocalypse” (Rush DeNooyer), Jan 2018
- Discovery, “Strip the Cosmos”, (Duncan Bulling), 2014
- Warner Entertainment, Documentary companion to “Interstellar” by Christopher Nolan (Gail Willumsen & Jill Shinefield), 2014
- BBC Horizon, “Swallowed by a Black Hole”, 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
- NHK Japan TV “Black Hole part 2: SuperMassive Black Hole”, 2012
- National Geographic, “Inside the Milky Way” (Coll Metcalfe), 2010
- TED Global Talk, 2009
- Thirty Meter Telescope (TMT) Overview Video, (Donna Berry), 2009
- History Channel, “Einstein and The Two Eclipses”, 2008
- NOVA, “Monster of the Milky Way (Tom Lucas), 2006
- Adler Planetarium, video interview and material in Museum exhibit (Grace Wolfe)
- “Black Holes: The Other Side of Infinity” Planetarium show produced by the Denver Museum of Nature & 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 Lobby exhibit

Content for Textbooks & Other Educational Books:

- “The Cosmos: Astronomy in the New Millennium” by Pasachoff & Filippenko,
- “Astronomy Today” by Chaisson & McMillan
- “Discovering the Universe” by Neil F. Comins
- “Universe” by Roger A. Freedman, Robert M. Geller, and William J. Kaufmann III
- “Gravity’s Fatal Attraction: Black Holes in the Universe” by Mitch Begelman and Martin Ree
- “Behind the Scenes of the Universe: From the Higgs to Dark Matter” by G. Bertone
- “The Universe in 100 Key Discoveries” By Giles Sparrow, Quercus
- “University Physics” by Young and Freedman
- “University Physics with Modern Physics” by Wolfgang Bauer & Gary Westfall
- “Principles of Astrophysics” by Marc Kutner
- “Astrophysics in a Nutshell” by Dan Maoz
- “Principles of Astrophysics: Using Gravity & Stellar Physics to Explore the Cosmos” by C. Keeton
- “High Energy Astrophysics” by M. Longair
- “General Relativity without Calculus” by Jose Natario
- “Relativity, Astrophysics and Cosmology” by Radoje Belusevic
- “Gravity: An Introduction to Einstein’s General Relativity” by Hartle
- “The Mathematical Theory of Special and General Relativity” by Ashok N. Katti (cover image)

Publications:

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, 2943.
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 Pre-Main-Sequence 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., Reid, 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 μ m 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., Piña, R. K., Telesco, C. M., Fisher, R., Winzinowich, 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. Telesco, C. M., Fisher, R. S., Piña, 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
51. Winzinowich, P. Acton, D. S., Shelton, C., Stomski, P., Gathright, J., Ho, K., Lupton, W., Tsubota, K., Lai, O., Max, C., Brase, J., An, J., Avicola, K., Olivier, S., Gavel, D., Macintosh, B., Ghez, A., and Larkin, J. 2000, "First Light Adaptive Optics at the Keck Telescope: A New Era of High Angular Resolution Imagery," *PASP*, 112, 315
52. Mathieu, R. D., Ghez, A. M., Jensen, E. L. N., and Simon, M. 2000, "Young Binary Stars and Associated Disks," in "Protostars and Planets IV," Tucson, University of Arizona Press, eds. Mannings, Boss, and Russell, p. 703
53. Tanner, A. M., Ghez, A. M., Morris, M., Becklin, E. E., Cotera, A., Ressler, M. E. 2000, "Is the galactic center source, IRS 21, as large as it appears?" *SPIE*, 4005, 180
54. Max, C. E., Mcintosh, B. A., Gibbard, S., Gavel, D. T., Roe, H., de Pater, I., Ghez, A. M., Acton, S., Winzinowich, P. L., Lai, O. 2000 "Neptune and Titan Observed With Keck Telescope Adaptive Optics," *Proc. SPIE*, 4007, 803
55. Ghez, A. M., Morris, M., Becklin, E. E., Kremenek, T., and Tanner, A. 2000, "The Accelerations of Stars Orbiting the Milky Way's Central Black Hole," *Nature*, 407, 349
56. Ghez, A. M., Kremenek, T., Tanner, A., Morris, M., and Becklin, E. E. 2001, "Towards Complete Stellar Orbits Around the Galaxy's Central Black Hole: The First Acceleration Measurements" in *ESO Proceedings of "Black Holes in Binaries and Galactic Nuclei,"* eds L. Kaper, E.P.J. van den Heuvel, and P.A. Woudt, p. 72
57. White, R. J. & Ghez, A. M. 2001, "Young Binary Stars in Taurus-Auriga," in "The Formation of Binary Stars," *Proceedings of IAU Symp. 200*, eds. B. Mathieu and H. Zinnecker, p. 332
58. Ghez, A. M., Morris, M., Becklin, E. E., Kremenek, T., and Tanner, A. 2001, "The Keck Proper Motion Study of the Galaxy's Central Stellar Cluster: From Speckle Imaging and Velocities to Adaptive Optics and Accelerations," in "Dynamics of Star Clusters and the Milky Way" *Astronomical Society of the Pacific Conference Series, Vol. 228*, p. 309, eds. S. Deiters, B. Fuchs, A. Just, R. Spurzem, and R. Wielen (San Francisco: ASP)
59. Ghez, A. M. 2000, "What Can Pre-Main-Sequence Binary Star Populations Tell Us About Formation Mechanism?" in "The Formation of Binary Stars," *Proceedings of IAU Symp. 200*, eds. B. Mathieu and H. Zinnecker, p. 210
60. McCabe, C. and Ghez, A. M. 2000, "A Detailed Study of the GG Tau Circumbinary Disk," in "The Formation of Binary Stars," *Proceedings of IAU Symp. 200*, eds. B. Mathieu and H. Zinnecker, p. 245
61. White, R. J. & Ghez, A. M. 2001, "Young Binary Stars in Taurus-Auriga," *IAU Symposium No. 200*, eds. B. Mathieu and H. Zinnecker, p. 332
62. Prato, L., Ghez, A. M., Pina, R. K., Telesco, C. M., Fisher, R. S., Winzinowich, P., Lai, O., Acton, D. S., and Stomski, P., 2001 "Keck Diffraction-Limited Imaging of the Young Quadruple Star System HD 98800," *ApJ*, 549, 590

63. White, R., and Ghez, A. M., 2001 “Observational Constraints on the Formation and Evolution of Binary Stars,” *ApJ*, 556, 265
64. Bruggmann, B., Ghez, A. M., Greiner, J. 2001 “Black Holes,” *PNAS*, 98, 19, 10525
65. Gibbard, S., Roe, H., de Pater, I., Macintosh B., Gavel, D., Max, C. E., Baines, K. H., Ghez, A. 2003, “High-Resolution Infrared Imaging of Neptune from the Keck Telescope,” *Icarus*, 156,1
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