

Andrea M. Ghez

Curriculum Vitae (*updated July 31, 2026*)

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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	
	Lauren B. Leichtman & Arthur E. Levine Chair	2009 - present
	Distinguished Professor of Physics & Astronomy	2012 - present
	Professor of Physics & Astronomy	2000 - 2012
	Associate Professor of Physics & Astronomy	1997 - 00
	Assistant Professor of Physics & Astronomy	1994 - 97
	Hubble Postdoctoral Research Fellow, University of Arizona	1992 - 94
Selected Honors and Awards	Member of the European Academy of Engineering	2026
	Foreign Member of the Luxembourg Academy of Sciences and Arts (LASA)	2026
	Rumford Award, American Academy of Arts and Sciences	2025
	Alumni Medal, University of Chicago	2024
	Marty Sklar My Last Lecture Award, UCLA	2024
	Woman of the Year, California Science Center Foundation	2023
	UCLA Outstanding Physics & Astro Teaching Award (8 yrs)	2023
	Inst. of Physics (UK Learned Physics Society) Honorary Fellow	2022
	International Honorary Member of Zonta International	2021
	Academy of Achievement, member	2021
	<i>Nobel Prize in Physics, Royal Swedish Academy of Sciences</i>	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
	Sven Berggren Prize, Royal Physiographic Society, Sweden	2017
	Bakerian Medal, The Royal Society of London	2016
	Univ. of Chicago Lab School Distinguished Alumni Award	2013
	Crafoord Prize in Astronomy, Royal Swedish Acad. of Sci.	2012
	Caltech Distinguished Alumni Award	2012
	American Philosophical Society, elected	2012
	MacArthur Fellowship	2008
	Helen Hogg Distinguished Visitorship	2008
	UCLA Acad. Adv. Program Faculty Recognition Award	2007
	Aaronson Award, University of Arizona	2006
	National Academy of Sciences, elected	2004
	American Academy of Arts & Sciences, elected	2004
	Raymond & Beverly 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
	Packard Fellowship	1996
	Sloan Fellowship	1996

Research Group Members (current & former):***Research Scientists & Project Scientists***

Shoko Sakai	2015-present
Greg Martinez	2014-present
Anna Ciurlo	2021-present
Matthew Hosek	2024-present
E(Laly) Gallego Cano	2026-present
Tuan Do	2014-2020
Gunther Witzel	2015-18
Leo Meyer	2011-14

Post Doctoral Researchers

Rory Bentley	2017-present
Abhimat Gautam	2015-26
Devin Chu	2015-25
Matthew Hosek	2017-24
Anna Ciurlo	2016-20
Aurelien Hees	2016-17
Gunther Witzel	2012-15
Sylvana Yelda	2012-14
Will Clarkson	2008-10
Marshall Perrin (NSF Fellow)	2007-10
Leo Meyer (DFG Fellow)	2008-09
Nate McCrady	2008-09
Jorg-Uwe Pott (Keck/UCLA)	2007-09
Andrea Stolte	2006-08
Elise Furlan (NRC Fellow)	2006-08
Gaspard Duchene	2000-04
Lisa Prato	1998-00

Graduate Students (PhD Projects)

Zo Haggard	Current
Sean Granados	Current
Jiawei/Johnny Qiu	Current
Kalvyn Adams	Current
Sparsh Vashist	Current
Lingfeng Wei	Current
Rory Bentley	PhD 2025
Kelly Kosmo O'Neal	PhD 2023
Zhuo Chen	PhD 2022
Abhimat Gautam	PhD 2022
Devin Chu	PhD 2022
Breann Sitarski	PhD 2016
Sylvana Yelda	PhD 2012
Tuan Do	PhD 2010
Jessica Lu	PhD 2009
Quinn Konopacky	PhD 2009

Seth Hornstein	PhD 2006
Angelle Tanner	PhD 2004
Caer McCabe	PhD 2004
Jennifer Patience	PhD 1999
Russel White	PhD 1999

Graduate Students (MS Projects only)

Swathya Chauhan	MS 2026
Hadrien Pagnat	MS 2024
Rebecca Lewis	MS 2023
Wenmeng (Nancy) Ning	MS 2023
Grant Weldon	MS 2023
Sam Chappell	MS 2016
Anna Boehle	MS 2014
Kim Phifer	MS 2013
Mark Rafelski	MS 2006
Shelley Wright	MS 2004
Suvi Gezari	MS 2001
Mike Berkovitch	MS 1996
Beth Klein	MS 1995

Undergraduate Students & Lab Assistants

Ian Faversani (Current); Gurhemar Kathuria (Current); Shrivali Chakrobarty (Current); Annika Feng (Current); Tunhui (Tina) Xie (2023); Ethan Cochran (2023); Yash Gursahani (2023); Shrujal Ambati (2023); Anoushka Chintada (2023); Jane Heathcote (2023); Ana Vazquez (2023); Max Kroft (2020-23); Asad Ukani (2020-23); Alex (Shizhe) Chen (2019-23); Ethan Cochran (2019-21); Arezu Dehghanfar (2016-18); John Mangian (2017); Kelly Kosmo (2016-17); Chris O'Connor (2016); Zhou Chen (Nanjing Univ 2015); Joseph Ahn (2015); Isabel Lipartito (Smith 2014); Sandra Albers (2013-15); Vaishali Parkash (Union College 2013); Michelle Kelly (Univ. of Ill. 2012); Carina Cheng (2011-13); Nara Higano (Gustavus Adolphus 2011); Ruizhu Chen (Nanjing Univ. 2011); Anna Boehle (Smith 2010); Josefa Baker (2010); Kim Phifer (Butler Univ. 2009); Claire Dorman (UC Berkeley, 2008); Ryan Trainor (UCI, 2007); Hal Cambier (U. of Oregon 2006); James Dunn (2006-08); Jill Naiman (2005-06); Lia Corrales (Harvey Mudd 2005); Javiera Guedes (UCB 2004); Fabio Altenbach (2003-05); Hamadi Macintosh (2003); Priya

Sheth (2002-03); Amanda Young (UCSC 2002); Michele Carpenter (2002); Louis Levenson (2000-01); Ted Kremenek (1998-01); David Sand (1997-00); Whitney Raas (1998-00); Nairn Baliber (1997-98); Jason Weis (1997); Mia Smith (1996); Marlon Jimenez (1996); Tracy Beck (1994-95) *High School Students*

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

**Selected, Recent
Distinguished
Lectures:**

Russell E. Marker Lectures, Penn State University	2026
McDonnell Distinguished Lecture Series, WashU	2026
Loeb Lectures in Physics, Harvard University	2025
Alpheus Smith Lecture, Ohio State University	2025
Robert E. Pollock Distinguished Lectureship, Indiana Univ.	2025
Colloquium at the FermiLab, Chicago, IL	2025
Speaker at the 2025 APS CU*iP, Chicago, IL	2025
Big Apple Colloquium, Columbia University	2024
University of Chicago Alumni Award & Alumni Weekend Talks	2024
Keck Observatory Public Talk Kahilu Theatre, Waimea, HI	2024
Imiloa Astronomy Center, Hilo HI	2024
Reines Lecturership, UC Irvine	2024
George Gamow Memorial Lectureship, Univ. of Boulder	2024
60th Anniv. of Maria Goeppert Mayer's Nobel Prize, UCSC	2024
Keck Observatory's 30th Anniversary Keynote Speaker	2023
UCLA Emeriti Association	2023
Chancellor Investiture Celebration Lecture, Univ. Wisconsin	2023
Amelia Earhart Lecture, Zonta International	2023
UCLA Geffen Academy Graduation Speaker	2022
Opening Ceremony, Sichuan Univ. Immersion Prog. China	2022
Spitzer Lectures, Princeton University	2022
Pioneer Award Lecture, Duke University	2022
Danish Astronomy Meeting	2021
Neugebauer Lecture, Caltech	2021
UC Berkeley Astronomy Graduation Speaker	2021
CERN, Geneva Switzerland	2021
United Kingdom Institute of Physics Keynote Lecture	2021
American Physical Society, Plenary Lecture	2021
Helen Hogg Distinguished Lectures, Univ. of Toronto	2021
Center for Astrophysics, Harvard University	2020
Nobel Lecture, Stockholm Sweden	2020
Maria Goeppert Mayer Lecture, Univ. of Chicago, Physics	2020
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

Recent Service Work

National & International Committees:

Yale External Advisory Board	2025
Fermilab Director Search Committee	2025
W. M. Keck Foundation, Board Member	2024 - <i>present</i>
MIT Visiting Committee for the Physics Department	2023 - <i>present</i>
Northwestern's Center for Interdisciplinary and Exploratory Research, Scientific Advisory Board	2023 - <i>present</i>
Getty PST Advisory Council Panel	2024
AAS Heineman Prize Selection Committee	2020 – 2022
Oxford University Philip Wetton Professorship of Astrophysics Selection Advisory Committee (2021)	2021
NAS Award for Scientific Discovery Selection Committee	2020 – 2021
Kavli Prize in Astrophysics Committee	2019 - 2021
NRC Astronomy Decadal Optical/Infrared Committee	2019 - 20, 9-10, 99-00
NAS Award for Scientific Reviewing Selection	2018
Heising-Simons Physics & Astronomy Leadership Council	2017 - 19
External Review Cmte, Dept of Astronomy UCSC	2016
Am. Acad. of Arts & Science Astronomy Nominating	2016
Aspen Center for Physics, Meeting Science Organizing	2014 - 16 (co-chair)
NAS Class Membership	2013, 15
Kavli Frontiers Service Review Panel	2014
James Craig Watson Medal Selection, NAS	2013 (chair), 2015-16

UC System-Wide, Campus-Wide or Division Committees:

UC Observatory Cabinet, Special Advisor to UCO Director	2023 - <i>present</i>
UCLA Chancellor Search	2023-24
UC Observatory Advisory, UCLA Representative	2012 - 2023
Physical Sciences Diversity	2015 - 2021
Faculty Research Lectureship Selection chair	2014-5, 19-20
member	2017 - 19
Executive Vice Chancellor Search	2019
W. M. Keck Observatory AO Science Council	2017 - 18 (chair)
W. M. Keck Observatory Science Steering	2010 - 18
Vice Chancellor for Academic Personnel Search	2017
Molecular Biology Institute Review	2017
Geffen Academy Working Group	2015 - 17
Gold Shield Faculty Prize Selection	2016

Department Committees:

Faculty Search Cmte, Astro-Instrumentation	2023-2
Policy, Appointments, Strategic Planning Committee (ASP)	2024-25, 21-23, 17, 10-11, 7
Remote Observing Room Construction Cmte	2020-2023
Development/Fund-raising Committee	2019 - 20
Astro Comprehensive Exam	2020 - 21
Physics Colloquium	2010 - 20
Academic Affairs	2018 - 19

Public Outreach Products:

Andrea Ghez received the 2020 Nobel Prize in Physics and, as a result, more than 1,300 news outlets worldwide have reported on her and her research since October 6, 2020.

Selected Features in Documentaries, Museum Exhibits & Other Public Forums:

- IMAX, “Einstein’s Incredible Universe” (Daniel Ferguson), expected completion 2025
- Exhibits at National Women’s History Museum in DC,
- Adler Planetarium, Griffith Observatory, Ontario Science Center, National Academy of Sciences Keck Building Lobby
- Audacious with Chion Wolf Podcast 2024
- What It Takes Podcast, American Academy of Achievement 2022
- FED Talk Podcast 2021
- NPR Science Friday Show 2020
- NOVA, “Black Hole Apocalypse” (Rush DeNooyer), 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, “All Things Considered” 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
- “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)

Research Images & 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 μ m 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 μ m 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 μ m 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 Imaging,” *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
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