

Andrea M. Ghez

Curriculum Vitae (updated April 30, 2025)

Education:	California Institute of Technology, Ph.D., Physics	09/1992
	Massachusetts Institute of Technology, B.S., Physics	05/1987
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 - present
	Associate Professor of Physics & Astronomy	1997 - 2000
	Assistant Professor of Physics & Astronomy	1994 - 1997
	Hubble Postdoctoral Research Fellow, University of Arizona	1992 - 1994
Major Awards & Honors:	Rumford Award, American Academy of Sciences	2025
	Alumni Medal, University of Chicago	2024
	UCLA Outstanding Physics & Astro Teaching Award (8 years)	1997 -2023
	Inst. of Physics (UK Learned Physics Society) Honorary Fellow	2022
	<i>Nobel Prize in Physics, Royal Swedish Academy of Sciences</i>	2020
	Honorary Doctorate of Science, University of Oxford	2019
	Bakerian Medal, The Royal Society of London	2016
	Crafoord Prize in Astronomy, Royal Swedish Acad. of Sciences	2012
	American Philosophical Society, elected	2012
	MacArthur Fellowship	2008
	National Academy of Sciences, elected	2004
	American Academy of Arts & Sciences, elected	2004
Recent Selected Service Activities:	W. M. Keck Foundation, Board Member	2024 - <i>present</i>
	UC Observatory Cabinet, Special Advisor to UCO Director	2023 - <i>present</i>
	MIT Visiting Committee for the Physics Department	2023 - <i>present</i>
	UCLA Chancellor Search Committee	2023 - 2024
	UC Observatory Advisory Committee, UCLA Representative	2012 - 2023
	Kavli Prize in Astrophysics Committee	2019 - 2021
	NRC Astro2020 Optical/Infrared Committee	2019 - 2020

Research Group Members (current * & past: 80 total): **Research Scientists & Project Scientists:** Tuan Do, Anna Ciurlo*, Matt Hosek*, Shoko Sakai*, Greg Martinez*, Gunther Witzel **Postdocs:** Devin Chu*, Matt Hosek, Abhimat Gautam*, Aurelien Hees, Gunther Witzel, Sylvana Yelda, Will Clarkson, Marshall Perrin, Nate McCrady, Leo Meyer, Joerge-Uwe Pott, Elise Furlan, Andrea Stolte, Samir Salim, Gaspard Duchene, Lisa Prato **PhD Graduate Students:** Rebecca Lewis*, Rory Bently*, Zo Haggard*, Inbal Mirzrahi*, Kelly O’Neil, Grant Weldon, Zhuo Chen, Samantha Chappell, Breann Sitarski, Sylvana Yelda, Tuan Do, Quinn Konopacky, Jessica Lu, Seth Hornstein, Caer McCabe, Angelle Tanner, Jennifer Patience, Russel White **MS-only Graduate Students:** Hadrien Pagnat*, Sean Granados*, Wenmeng (Nancy) Ning, Evan Jones, Anna Boehle, Kim Phifer, Marc Rafelski, Shelley Wright, Suvi Gezari, Mike Berkovitch, Beth Klein **Post-Bac & -MS, Undergraduate & High School Students:** Swathya Chauhan*, Sparsh Vashist*, Tunhui (Tina) Xie, Ethan Cochran, Anoushka Chintada, Ethan Cochran, Max Kroft, Asad Ukani & 50 other former.

Selected Publications (134 refereed papers since 1991 with >10,000 citations):

1. Ghez, A. M., Salim, S., Weinberg, N. N., et al. 2008, “Measuring Distance and Properties of the Milky Way’s Central Supermassive Black Hole with Stellar Orbits,” *ApJ*, 689, 1044
2. Ghez, A. M., Salim, S., Hornstein, S. D., et al. 2005, “Stellar Orbits Around the Galactic Center Black Hole,” *ApJ*, 620, 744
3. Do, T., Hees, A., Ghez, A., et al. 2019 “Relativistic Redshift of the Star S0-2 Orbiting the Galactic Center Supermassive Black Hole,” *Science*, 365, 664
4. Ghez, A. M., Duchêne, G., Matthews, K., et al. 2003 “The First Measurement of Spectral Lines in a Short-Period Star Bound to the Galaxy’s Central Black Hole: A Paradox of Youth,” *ApJ*, 586, L127
5. Ghez, A. M., Klein, B. L., Morris, M., et al. 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
6. 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
7. Hees, A., Do, T., Ghez, A. M. et al. 2017 “Testing General Relativity with Stellar Orbits around the Supermassive Black Hole in Our Galactic Center,” *Physical Review Letters*, 118, 211101
8. Lu, J. Ghez, A. M., Hornstein, S. D., Morris, M. R., Becklin, E. E., Matthews, K., “A Disk of Young Stars at the Galactic Center as Determined by Individual Stellar Orbits,” 2009, *ApJ*, 690, 1463
9. Meyer, L., Ghez, A. M., Schoedel, R., et al. 2012, “The Shortest Known Period Star Orbiting our Galaxy’s Supermassive Black Hole,” *Science*, 338, 84
10. Ghez, A. M., Morris, M., Becklin, E. E., et al. 2000, “The Accelerations of Stars Orbiting the Milky Way’s Central Black Hole,” *Nature*, 407, 349

Selected Public Outreach Activities:

- **Documentaries:** IMAX, “Einstein’s Incredible Universe” (Daniel Ferguson), release date 2026; NOVA, “Black Hole Apocalypse” (Rush DeNooyer), Jan 2018; & >30 others
- **Museum Exhibits:** materials for >10 shows, including National Academy Science Keck Building Lobby, Adler Planetarium, Denver Museum, Smithsonian Astrophysical Observatory traveling museum exhibition about black holes
- **Public Talks:** >100 given, including World Science Festival, TED Global
- **Textbooks:** Content for >30 textbooks ranging from high school to advanced graduate level
- **Interviews for various media outlets:** >100 done, such as NPR Science Friday, CNN Amanpour