

Andrea M. Ghez
Curriculum Vitae (*updated January 31, 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 - 00
	Assistant Professor of Physics & Astronomy	1994 - 97
	Hubble Postdoctoral Research Fellow, University of Arizona	1992 - 94
Major Awards & Honors:	Rumford Award, American Academy of Sciences	2025
	Awarded an Honorary Doctorate, Tel Aviv University	2025
	Alumni Medal, University of Chicago	2024
	Honorary Doctor of Science, Amherst College	2024
	Woman of the Year, California Science Center Foundation	2023
	UCLA Outstanding Physics & Astro Teaching Award (8x)	1997 -23
	Inst. of Physics (UK Learned Physics Society) Honorary Fellow	2022
	<i>Nobel Prize in Physics, Royal Swedish Academy of Sciences</i>	2020
	Science and Education Pioneer Award at UCLA	2020
	Honorary Doctorate of Science, University of Oxford	2019
	California Academy of Sciences, elected	2018
	Bakerian Medal, The Royal Society of London	2016
	Crafoord Prize in Astronomy, Royal Swedish Acad. of Sciences	2012
	Caltech Distinguished Alumni Award	2012
	American Philosophical Society, elected	2012
	MacArthur Fellowship	2008
	National Academy of Sciences, elected	2004
	American Academy of Arts & Sciences, elected	2004
Selected, Recent Distinguished Lectures:	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 Laboratory Schools	2024
	Keck Public Talk/Q&A at Kahilu Theatre, Waimea, HI	2024
	Imiloa Astronomy Center, Hilo HI	2024
	Reines Lecturer, UC Irvine	2024
	George Gamow Memorial Lecture, 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
	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 Lecture, Univ. of Toronto	2021

Recent Service

Activities:

UCLA Chancellor Search	2023-24
Getty PST Advisory Council Panel	2024
UC Observatory Cabinet	2023- <i>present</i>
MIT Visiting Committee for the Physics Department	2023 - <i>present</i>
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>
UC Observatory Advisory Search, UCLA Representative	2012 - 23
TMT-International Science Definition Team, Black Holes	2013 - <i>present</i>
UCLA Faculty Research Lectureship Selection, chair	2019 - <i>present</i>
UCLA Physical Sciences Diversity Committee	2015 - <i>present</i>
UCLA Depart. Physics & Astronomy Development Committee	2019 - <i>present</i>

Research Group Members (current * & past: 80 total): **Research Scientists & Project Scientists:** Tuan Do, Anna Ciurlo*, Shoko Sakai*, Greg Martinez*, , Gunther Witzel **Postdocs:** Matt Hosek*, Abhimat Gautam*, Devin Chu*, 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, Shrujal Ambat, Jane Heathcote, Ana Vazquez, Ethan Cochran, Anoushka Chintada, Alex (Shizhe) Chen, Ethan Cochran, Max Kroft, Asad Ukani & 48 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), filming began 2017, release date 2025; 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 TED Global 2009, which gets significant, online viewership
- **Textbooks:** Content for >30 educational textbooks ranging from high school to advanced graduate level