

Shardha Jogee — Curriculum Vitae and Bibliography

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Education

- Yale University, U.S.A – Astronomy – Ph.D. (1999), M. Phil. (1994), M. S. (1994).
- University of Cambridge, England – B.A. Degree (Physics and Theoretical Physics; Hons 3 years; 1992).
- Certificate in UT Executive Management and Leadership Program (UTEMPLP; June 2018).

Employment and Academic Appointments

- August 2019–Present: Rex G. Baker, Jr. and McDonald Observatory Centennial Professor, Astronomy Dept., University of Texas at Austin.
- 2015–2019: Department Chair, Astronomy Dept., University of Texas at Austin.
- 2014–2015: Associate Chair, Astronomy Dept., University of Texas at Austin.
- 2014–Present: Professor, Astronomy Dept., University of Texas at Austin.
- 2011 (April. to June): Visiting Scientist, Excellence Cluster “Origin and Structure of the Universe”, TMU/LMU/MPA, Munich, Germany.
- 2011 (Jan. to March): Visiting Scholar, Harvard Institute for Theory and Computation (ITC), Harvard University.
- 2009–2013: Associate Professor, Astronomy Dept., University of Texas at Austin.
- 2004–2008: Assistant Professor, Astronomy Dept., University of Texas at Austin.
- 2002–2004: Assistant Astronomer (tenure-track), Space Telescope Science Institute.¹
- 1998–2002: Postdoctoral Scholar, California Institute of Technology (Caltech).

Summary of Grant Awards: I have been awarded ~\$3.8 M in external research and education grants over the period 2004 to 2020. Research grants account for ~\$3.1 M, of which ~\$2.6 M are from grants where I am the Principal Investigator (PI). Education and outreach grants account for ~\$0.7 M. In terms of recent awards over the past six years, I have been the PI of three NSF AAG grants (2014, 2015, 2017), two Heising-Simons Foundation grants (2018, 2019), and one NASA grant (2014) for a total of ~ \$2.2 M. For multi-institution grants, the grant amounts listed above include *only the amount awarded to my institution* with me as PI, Co-PI, or Co-I. A detailed list of grant awards is provided in Appendix A of this CV, and a few select awards are listed below.

¹ Space Telescope Science Institute oversees the scientific operations of NASA’s *Hubble Space Telescope* and the future James Webb Space Telescope.

1. PI: Heising-Simons Foundation grant to honor Beatrice Tinsley's pioneering transformational work, support graduate student research, and foster an inclusive scientific environment, 2019 (\$350,000).
2. PI: National Science Foundation Research Experience for Undergraduates (REU) grant, 2018-2023 (\$399,000 + supplement = \$415,652): *'Frontier Research and Training in Astronomy for the 21st Century'*.
3. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2015-2020 (\$367,772 awarded to UT Austin out of a total award of \$873,000): *'Collaborative Research: Galaxy Growth in Different Environments from $z=1.9$ to 3.5'*.
4. UT PI: NASA, Strategic University Research Partnerships Program, 2014 (\$75,000): *'Galaxy Growth at $z \sim 2 - 4$: From Voids to Proto-Clusters'*.
5. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2014-2019 (\$297,613): *'Unveiling the Assembly History of Galaxies by Dissecting their Structure, Chemical Evolution, and Stellar Populations'*.
6. PI: Norman Hackerman Advanced Research Program (NHARP) grant, 2010-2013 (\$149,000): *'Student Support for VENGA: Understanding Galaxy Evolution in the Nearby Universe'*.
7. PI: NASA Long Term Space Astrophysics (LTSA) grant, 2003-2011 (\$558,000): *'Structure and dynamics of local and intermediate redshift disks'*.
8. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2006-2011 (\$311,748): *'Bars and their Impact on Galaxy Evolution over the Last Eight Billion Years'*.
9. Co-PI: NSF STEM Undergraduate Education award (DUE-0807140), 2008 (\$600,000): *'Scientists for Tomorrow'*.

Other Awards and Honors

- Awarded [Public Voices Fellowship with the OpEd Project](#) (2020–2021).
- Invited Member of the [Heising-Simons Foundation Physics and Astronomy Leadership Council](#) (PALC; 2017–2021).
- Selected as UT Representative for the [Leadership Texas Program for Women Leaders](#) (2014).
- College of Natural Science Teaching Excellence Award, UT Austin (2012).
- Board of Visitors Teaching Excellence Award, UT Austin (2011).
- Invited Plenary Talk (*'Evolution of Disk Galaxies: New Insights and Future Challenges'*) at the 211th American Astronomical Society Meeting (2008).
- American Association of University Women Educational Fellowship (1996).
- Amelia Earhart Fellowship, Zonta International (1996).
- Yale University J. F. Enders Research Fellowship, Yale University (1995).
- Sigma Xi Grants-in-Aid of Research, Sigma Xi Society (1995).
- Garfinkel Prize, Yale University (1992).

- Elected to status of Fellow, Cambridge University, England (1990-1992).
- Full academic scholarship in Physics, Cambridge University, England (1989-1992).

Summary of Publications: As of October 15, 2021, my publication record includes over 203 publications with over 8,600 citations (including 24 papers with over 100 citations), a current citation rate of over 440 citations per year, and an h-index of 46. A detailed bibliography is provided in Appendix B of this CV.

Summary of Talks: I have presented over 60 invited colloquia and talks at different institutions and conference venues (e.g., in USA, England, France, Germany, the Netherlands, Italy, Spain, Chile, South Africa, etc) on research, STEM education, and academic leadership. A detailed list of talks is provided in Appendix C of this CV.

Overview of Research Program: My research addresses central questions on the evolution of galaxies as a function of cosmic epoch, mass, and environment. How do galaxies grow their stars, black holes, and dark matter halos across cosmic time and vastly different environments? What is the role played by theoretically predicted growth modes, such as violent mergers of galaxies and slower more ‘quiescent’ modes (e.g., gas accretion along cosmological filaments and secular evolution driven by bars)? How do galaxy clusters – some of the largest bound structures in the Universe – form? My research group has led a large number of highly cited refereed papers on the structure, evolution, and assembly history of galaxies within the following *international science collaborations*, which have conducted some of the largest or deepest galaxy surveys to date with NASA’s Hubble Space Telescope, Spitzer Space Telescope, Herschel-SPIRE, Chandra XMM-Newton, GALEX, and many ground-based observatories, including McDonald Observatory:

- [Galaxy Evolution from Morphology and SEDs \(GEMS\) survey](#)
- [Great Observatories Origins Deep Survey \(GOODS\)](#)
- [Hubble ACS Ultra Deep Field \(HUDF\)](#)
- [Space Telescope A901/902 Galaxy Evolution Survey \(STAGES\)](#)
- [Hubble ACS Treasury Survey of the Coma Cluster](#)
- [GOODS-NICMOS Survey \(GNS\)](#)
- [The VIRUS-P Exploration of Nearby Galaxies \(VENGA\)](#)
- [The SHELA-HETDEX study of galaxy evolution across diverse environment at \$z \sim 2-4\$, based on five large photometric surveys \(DECam, NEWFIRM, Spitzer IRAC, Herschel-SPIRE, XMM X-ray\) and the \[HETDEX survey\]\(#\).](#)

Students and Postdocs Advised: (i) 8 graduate students advised as main PhD or Masters advisor: Andreia Carillo, Jonathan Florez, Kay Yuchen Guo, Amanda Heiderman, Kyle Kaplan, Irina Marinova, Sydney Sherman, Tim Weinzirl. (ii) 11 graduate students advised as part of their thesis and second-year committees: Yi-Kuan Chiang, Jason Jaacks, Rebecca Larson, Sinclair Manning, Eva Noylola, Aaron Smith, Mimi Song, Matt Stevans, Rebecca Tippens, Benny Tsang, Nalin Vutisalchavakul (iii) Research analysts supervised: James Davies, Inge Heyer. (iv) Postdoctoral fellows advised: Dr. Fabio

Barazza, Dr Ingo Berentzen (in collaboration with Prof. Shlosman), Dr. Lei Hao, Dr, Juntao Shen, Dr. Tim Weinzirl. (*v*) *Undergraduates students supervised*: Zacharias Escalante, Sarah Miller; (awarded a Rhodes Scholarship in 2009), Kyle Lake, Rebecca Larson, Jack Long, Kyle Penner (Dean’s Scholar) Steven Roloff, Nicholas Watson, and over 50 other undergraduate students in the Research Methods course I designed.

Selected Leadership and Service in Chronological Order (Please see the document “**Academic Leadership Experience**” for a description of leadership experience in specific areas rather than in chronological order)

- Council Co-Char (2021-2023), Sub-Committee Chair (2019-2021), and member (2018-2019) of the Provost-appointed [University Faculty Gender Equity Council \(UFGEC\)](#).
- Member of the Equity Review Process Consultative Committee (ERPCC), advising the President and Provost (Nov. 2020–Present).
- Chair and Member of the American Astronomical Society ([AAS Prize Committee for the Helen B. Warner Prize](#)) (2019–2021).
- Chair and Member of the American Astronomical Society ([AAS Prize Committee for the Newton Lacy Pierce Prize](#)) (2019–2021).
- Member of the UT College of Natural Sciences Promotion and Tenure Committee (Sep. 2021 to Aug. 2024).
- Hosted ‘[UT College of Natural Sciences Science Festival ‘Cosmic Beginnings’](#)’ (standing in for Dean Paul Goldbart) (Feb. 2021).
- Invited Member of the [Heising-Simons Foundation Physics and Astronomy Leadership Council](#) (PALC; 2017–2021).
- Member of the UT Institutional Equity Data and Analysis (IEDA) Committee, reporting to the Provost (Aug. 2020–Present).
- Member of the Misconduct Working Group (MWG) set up by UT President Fenves to help UT better improve campus climate, address Title IX and sexual misconduct issues, and implement Texas Senate Bill 212 (Nov. 2019–Aug. 2020).
- Director and PI of the [NSF/DOD funded Research Experience for Undergraduates \(REU\)](#) (*‘Frontier Research and Training in Astronomy for the 21st Century’*), which provides research and professional development opportunities for underserved undergraduates in STEM (2017–Present)
- Chair of the UT Astronomy Faculty Search Committee (leading to two junior tenure-track faculty hires) (2019–2020).
- As a Public Voices Fellow with the OpEd Project, I published [an Op-Ed in the New York Times](#) entitled *‘How to Reopen the Economy Without Killing Teachers and Parents’* and [an Op-Ed in the Dallas Morning News](#) entitled *‘Removing Legacies of Racism: UT Austin Renames the Robert Lee Moore Hall’*.
- Member of the CNS Advisory Council for the [Association for Women in Science \(AWIS\)](#) where I mentor students and help advance gender equity in STEM (2020–Present).

- Creator and Faculty Lead for the Association of Women in Astronomy Research and Education (AWARE) (2004–Present).
- Member of the SOC for the 7th [GMTO Science Community meeting on the Cosmic Baryon Cycle](#), Carlsbad, CA (2018–2019).
- Selected by the Provost Office for the [UT Executive Management and Leadership Program](#) (UTEMPLP; Jan.–May 2018).
- Chair of the [UT Austin Department of Astronomy](#) with ~ 200 members (July 2015 to July 2019). Please see the document “**Academic Leadership Experience**” for an outline of the milestones established.
- Invited member of the UT College of Natural Sciences Strategic Planning Task, which worked collaboratively with the new Dean to set up a five-year strategic vision plan for the college’s future. Led the white paper on “Graduate Student Support” and co-authored the white paper on “Faculty Hiring Practices” (2012–13).
- Member of the Advisory Council for the [Texas Institute for Discovery Education in Science \(TIDES\)](#) (2014–2015).
- Served on scientific advisory panels for federal funding agencies (e.g., NASA, NSF) and time allocation panels for international research facilities (e.g., the Hubble Space Telescope). Referee for top-tier journals, including the *Astrophysical Journal* (ApJ), *Astrophysical Journal Letters* (ApJL), *Astronomy & Astrophysics* (A&A), and *Monthly Notices of the Royal Astronomical Society* (MNRAS) (2005–Present).
- Selected Departmental and College Service: Astronomy Undergraduate Advisor; Member of UG Studies Committee (UGSCOM); Chair and Member of the Astronomy Graduate Studies Executive Committee (GSEC); Chair and Member of Astronomy Faculty Search Committees; Member of the Faculty Evaluation Committee; Member of the Graduate Admission Committee; Chair of Extragalactic Research Group; Dean’s Scholars Steering Committee; CNS Core and Curriculum Committee (2005–Present).
- UT Representative in the [Leadership Texas Program for Women Leaders](#) (2014).
- Lead for core scientific investigations in five large international science collaborations, which conducted some of the largest or deepest galaxy surveys at the time (e.g., [GEMS](#)), [STAGES](#), [Hubble Treasury Survey of the Coma Cluster](#), [GOODS-NICMOS Survey](#), [SHELA/HETDEX](#)) (2002–Present).
- Core member of the STScI home team that designed the [Hubble ACS Ultra Deep Field \(HUDF\)](#), the deepest optical image ever made of the Universe, and presented it to the media through scientific panels (2002–2004).
- Instrument scientist at the [Space Telescope Science Institute \(STScI\)](#) for the Advanced Camera for Surveys (ACS) on NASA’s Hubble Space Telescope. As team leader for the Phase II proposal process for ACS, I led a team of 12 tenured and tenure-track scientists to design and optimize the scientific programs for ACS on Hubble (2002–2004).
- Member of the [International Astronomical Union \(IAU\)](#) Commission 28 on Galaxies (2009–2013).

- Member of the Nominating Committee, American Astronomical Society (AAS), Division of Dynamical Astronomy (2010–2011).
- Member of the [ALMA North American Science Advisory Committee](#) (2007–2010).
- Member of the [Giant Magellan Telescope \(GMT\)](#) science working group (2008–2009).

Selected Teaching and Outreach Activities: A detailed list of courses taught and outreach activities is provided in Appendix D of the CV. Below are a few selected activities:

- Co-authored textbook aimed at Ph.D. students (**‘Physics of Active Galactic Nuclei at all Scales’**), Lecture Notes in Physics, Vol. 693, Eds. D. Alloin, R. Johnson, & P. Lira (Springer: Berlin Heidelberg)
- Invited to deliver the 2021 Great Lecture in Astronomy entitled **‘Galaxies, Science and Society: Breakthroughs and New Directions’** for the Board of Visitors and general public (April 2021).
- Hosted **‘UT College of Natural Sciences Science Festival ‘Cosmic Beginnings’** (standing in for Dean Paul Goldbart) (Feb. 2021).
- As a Public Voices Fellow with the OpEd Project, I published **an Op-Ed in the New York Times** entitled *‘How to Reopen the Economy Without Killing Teachers and Parents’* and **an Op-Ed in the Dallas Morning News** entitled *‘Removing Legacies of Racism: UT Austin Renames the Robert Lee Moore Hall’*.
- **Voice of America one hour radio interview** highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)
- **Interview with Exception Magazine** (in English and French) on Astronomy research and being a female astrophysicist (2018)
- Invited to lead an inaugural feature video for “The Universe” exhibit hall in the **Perot Museum of Nature and Science in Dallas, Texas** to encourage students to pursue STEM careers (2012–Present)
- Presentation of the education and research mission of the Astronomy program to the **State of Texas Legislative Staff**, including staff from Governor Abbott’s office, the Senate Higher Education Committee, the Senate Finance Committee, and the House Appropriations Committee (2016)
- Invited talk on *‘Cosmic Explorations, Interdisciplinary Partnerships, and STEM Education’*, **National Association of Women Business Owners** (2017).
- Presentation of Astronomy program milestones and research highlights to the **McDonald Observatory and Department of Astronomy Board of Visitors** (with 200+ members) twice a year (2015 to 2019).

LIST OF APPENDICES

- **Appendix A: Select List of Grant Awards**
- **Appendix B: Bibliography of Select Publications**
- **Appendix C: Select List of Talks**
- **Appendix D: Select List of Courses and Outreach Activities**

Appendix A: Select List of Grant Awards

Summary of Grant Awards: I have been awarded \sim \\$3.8 M in external research and education grants over the period 2004 to 2020. Research grants account for \sim \\$3.1 M, of which \sim \\$2.6 M are from grants where I am the Principal Investigator (PI). Education and outreach grants account for \sim \\$0.7 M. In terms of recent awards over the past six years, I have been the PI of three NSF AAG grants (2014, 2015, 2017), two Heising-Simons Foundation grants (2018, 2019), and one NASA grant (2014) for a total of \sim \\$2.2 M. For multi-institution grants, the grant amounts listed above include *only the amount awarded to my institution* with me as PI, Co-PI, or Co-I. A select list of grants is provided below:

1. PI: Heising-Simons Foundation grant to honor Beatrice Tinsley's pioneering transformational work, support graduate student research, and foster an inclusive scientific environment, 2019 (\\$350,000).
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3. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2015-2020 (\\$367,772 to UT Austin out of a total award of \\$873,000): *'Collaborative Research: Galaxy Growth in Different Environments from $z=1.9$ to 3.5'*
4. UT PI: NASA, Strategic University Research Partnerships Program, 2014 (\\$75,000): *'Galaxy Growth at $z \sim 2 - 4$: From Voids to Proto-Clusters.'*
5. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2014-2018 (\\$297,613): *'Unveiling the Assembly History of Galaxies by Dissecting their Structure, Chemical Evolution, and Stellar Populations.'*
6. PI: Graduate School Diversity Mentoring Fellowship, 2014 (\\$34,000)
7. PI: Cox Research Excellence Fund, 2014-2016 (\\$45,000): *'Surveys of the SHELA/HETDEX legacy field to Probe Obscured Star Formation as a Function of Environment at $z \sim 2 - 4$ '*
8. PI: Norman Hackerman Advanced Research Program (NHARP) grant, 2010-2013 (\\$149,000): *'Student Support for VENGA: Understanding Galaxy Evolution in the Nearby Universe'*
9. PI: NASA Long Term Space Astrophysics (LTSA) grant, 2003-2011 (\\$558,000): *'Structure and dynamics of local and intermediate redshift disks'*
10. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2006-2011 (\\$311,748): *'Bars and their Impact on Galaxy Evolution over the Last Eight Billion Years.'*
11. PI: NASA Education and Public Outreach award (NNG 06GB99G), 2006 (\\$45,000): *'Building a Bridge to Texas High School Science Teachers and Students.'*
12. PI: NASA Education and Public Outreach award HST-EO-10861.35, 2007 (\\$50,000): *'A Cluster of Activities on Coma from the Hubble Space Telescope, StarDate, and McDonald Observatory.'*

13. Co-PI: NSF STEM Undergraduate Education award (DUE-0807140), 2008 (\$600,000):
'Scientists for Tomorrow'
14. Co-PI: NASA Hubble Space Telescope award GO-11082, 2007 (180 orbits; \$68,268):
'NICMOS Imaging of GOODS'
15. Co-I: Spitzer/HETDEX Cycle 8 grant, 2011 (\$325,720): *'Spitzer-HETDEX Exploratory Large Area (SHELA) Survey'*
16. Co-PI: NASA Hubble Space Telescope award GO-10861, 2006 (164 orbits; \$57,105):
'An ACS Treasury Survey of the Coma Cluster'
17. Co-I: Caltech/JPL Spitzer grant (1288650), 2006 (\$53,042): *'Understanding the Blue-Sequence E/S0'*
18. Co-PI: NASA Hubble Space Telescope award GO-10395, 2005 (31 orbits; \$72,977):
'Environmental drivers of galaxy evolution:HST survey of A901/902 supercluster'
19. Co-PI: NASA Hubble Space Telescope award GO-10428, 2004 (80 orbits; \$50,189):
'Colors of QSO host galaxies at $z=2$ and the evolution of their stellar masses'

Appendix B: Select List of Publications

Summary of Publication Record: As of October 15, 2021, my publication record includes over 203 publications with over 8,600 citations (including 24 papers with over 100 citations), a current citation rate of over 440 citations per year, and an h-index of 46.

Refereed Publications

My publication list below uses the following acronyms for high-impact journals:

- ApJ: The Astrophysical Journal
- ApJL: The Astrophysical Journal Letters
- ApJS: The Astrophysical Journal Supplement
- AJ: The Astronomical Journal
- A&A: Astronomy & Astrophysics Journal
- A&A Suppl.: Astronomy & Astrophysics Supplement
- MNRAS: Monthly Notices of the Royal Astronomical Society
- Nature: Nature Journal

Many of my papers have long author lists as I am a member of many large international science collaborations, which conducted some of the largest and deepest survey of galaxies to date using NASA's *Hubble Space Telescope* or ground-based facilities, such as the [Galaxy Evolution from Morphology and SEDs \(GEMS\)](#) survey, the [Space Telescope A901/902 Galaxy Evolution Survey \(STAGES\)](#), the [HST Treasury Survey of the Coma Cluster](#), the [GOODS-NICMOS Survey \(GNS\)](#) of Massive Galaxies at $z \sim 2$, and the [SHELA-HETDEX](#) survey of nearly a million massive galaxies at $z \sim 2 - 4$. Since the role of members within large collaborations is often unclear, I would like to clarify that my research group and I are *leading* many of the core papers on the structure, merger, and assembly history of galaxies in these collaborations (e.g., Jogee et al. 2004, 2009; Marinova, Jogee, et al. 2007, 2009, 2012; Weinzirl, Jogee, et al. 2009, 2011, 2013; Barazza et al. 2006, 2008, 2009a, 2009b; Kaplan, Jogee, et al. 2013; Carrillo, Jogee, et al. 2020; Sherman, Jogee, et al; 2020a, 2020b, 2021; Florez, Jogee, et al; 2020, 2021; Escalante, Jogee, et al. 2020, etc) My contributions are significant in papers led by graduate students, undergraduate students, and postdoctoral fellows I have worked closely with, including Sydney Sherman, Jonathan Florez, Andreia Carrillo, Zacharia Escalante, Tim Weinzirl, Irina Marinova, Amanda Heiderman, Kyle Kaplan, Fabio Barazza, Ingo Berentzen, Lei Hao, Sarah Miller, Kyle Penner, Austin King, Jack Long, and Nicholas Watson.

1. Gebhardt, K. et al. including **Jogee, S.** 2021, ApJ, accepted: '*The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections.*'
2. Florez, J., **Jogee, S.**, Guo, Y. et al. 2021, MNRAS, 508, 762: '*AGN and Star Formation at Cosmic Noon: Comparison of Data to Theoretical Models*'
3. Sherman, S., **Jogee, S.**, Florez, J. et al. 2021, MNRAS, 505, 947: '*The shape and scatter of the galaxy main sequence for massive galaxies at cosmic noon*'

4. Weiss, L. H. et al. including **Jogee, S.** 2021, ApJ, 912, 100: *The HETDEX Survey: The Ly α Escape Fraction from 3D-HST Emission-Line Galaxies at $z \sim 2$*
5. Stevans, M. L., Finkelstein, S. L., Wold, I., et al. including **Jogee, S.** 2021, ApJ, accepted: *'The NEWFIRM HETDEX Survey: Photometric Catalog and the Quiescent Fraction of Massive Galaxies at $z = 3$ to 5 in the SHELA Field'*
6. Sherman, S., **Jogee, S.**, Florez, J. et al. 2020b, MNRAS, 499, 4239: *'Investigating The Growing Population of Massive Quiescent Galaxies at Cosmic Noon'*
7. Sherman, S., **Jogee, S.**, Florez, J. et al. 2020a, MNRAS, 491, 3318: *'Exploring the High-Mass End of the Stellar Mass Function of Star Forming Galaxies at Cosmic Noon'*
8. Florez, J., **Jogee, S.**, Sherman, S. et al. 2020, MNRAS, 497, 3273: *'Exploring AGN and Star Formation Activity of Massive Galaxies at Cosmic Noon'*
9. Carrillo, A., **Jogee, S.**, Drory, N. et al. 2020, MNRAS, 493, 4094: *'The VIRUS-P Exploration of Nearby Galaxies (VENGA): the stellar populations and assembly of NGC 2903's bulge, bar, and outer disc'*
10. Fuzia, B. J., Kawinwanichakij, L., Mehrtens, N., et al. including **Jogee, S.** 2020, MNRAS, 502, 4026: *'The Atacama Cosmology Telescope: SZ-based masses and dust emission from IR-selected cluster candidates in the SHELA survey'*
11. Kawinwanichakij, L., Casey, P., Wold, I. et al. including **Jogee, S.** 2020, ApJ, 892, 7: *'On the (Lack of) Evolution of the Stellar Mass Function of Massive Galaxies from $z = 1.5$ to 0.4'*
12. Wold, I., Kawinwanichakij, L., Stevans, M. L. et al. including **Jogee, S.** 2019, ApJS, 240, 21: *'The Spitzer-HETDEX Exploratory Large Area Survey. II. The Dark Energy Camera and Spitzer/IRAC Multiwavelength Catalog'*
13. Stevans, M. L., Finkelstein, S. L., Wold, I., et al. including **Jogee, S.** 2018, ApJ, 863, 63: *'Bridging Star-forming Galaxy and AGN Ultraviolet Luminosity Functions at $z = 4$ with the SHELA Wide-field Survey'*
14. den Brok, M., Peletier, R. F., Valentijn, E. A., et al. including **Jogee, S.** 2018, VizieR Online Data Catalog, 741: *'VizieR Online Data Catalog: HST/ACS Coma Cluster Survey. VI. (den Brok+, 2011)'*
15. Hagen, A., Zeimann, G. R., Behrens, C., et al. including **Jogee, S.** 2017, VizieR Online Data Catalog, 181: *'VizieR Online Data Catalog: Properties of emission-line galaxies (Hagen+, 2016)'*
16. Kaplan, K., **Jogee, S.**, Kewley, L., et al. 2016, MNRAS, 462, 1642: *'The VIRUS-P Exploration of Nearby Galaxies (VENGA): spatially resolved gas-phase metallicity distributions in barred and unbarred spirals'*

17. Papovich, C. et al. including **Jogee, S.** 2016, ApJS, 224, 28: ‘*The Spitzer-HETDEX Exploratory Large-area Survey*’
18. Luo, R., Hao, L., Blanc, G. A., **Jogee, S.**, van den Bosch, R. C. E., & Weinzirl, T. 2016, ApJ, 823, 85: ‘*The VIRUS-P Exploration of Nearby Galaxies (VENGA): Radial Gas Inflow and Shock Excitation in NGC 1042*’
19. Hoyos, C. et al. including **Jogee, S.** 2016, MNRAS, 455, 295: ‘*Linking the structural properties of galaxies and their star formation histories with STAGES*’
20. Cordero, J. P. et al. including **Jogee, S.** 2016, ApJL, 817, L6: ‘*Dry Merger Rate and Post-merger Fraction in the Coma Cluster Core*’
21. Hagen, A. et al. including **Jogee, S.** 2016, ApJ, 817, 79: ‘*HST Emission Line Galaxies at $z \sim 2$: Comparing Physical Properties of Lyman Alpha and Optical Emission Line Selected Galaxies*’
22. Hao, L., **Jogee, S.**, Barazza, F., & Marinova, I. 2016, MNRAS, in preparation: ‘*Bars in Starbursts and AGNs – A Quantitative Reexamination*’
23. Maltby, D. T. et al. including **Jogee, S.** 2015, MNRAS, 447, 1506: ‘*The environmental dependence of the structure of galactic discs in STAGES S0 galaxies: implications for S0 formation*’
24. Chiang, Y.-K., et al. including **Jogee, S.** 2015, ApJ, 808, 37: ‘*Surveying Galaxy Proto-clusters in Emission: A Large-scale Structure at $z = 2.44$ and the Outlook for HETDEX*’
25. Bridge, J. S., et al. including **Jogee, S.** 2015 ApJ, 799, 205: ‘*Physical and Morphological Properties of [O II] Emitting Galaxies in the HETDEX Pilot Survey*’
26. Weinzirl, T., **Jogee, S.**, S., Neistein, E., et al., including the Coma HST ACS Treasury Team, 2014, MNRAS, 441, 3083: ‘*The HST/ACS Coma Cluster Survey - VII. Structure and Assembly of Massive Galaxies in the Center of the Coma Cluster*’
27. van Brok, M., Peletier, R. F., Seth, A., et al. including **Jogee, S.** 2014, MNRAS, 445, 2385: ‘*The HST/ACS Coma Cluster Survey. X. Nuclear star clusters in low-mass early-type galaxies: scaling relations*’
28. Song, M. et al. including **Jogee, S.** 2014, ApJ, 791, 3: ‘*The HETDEX Pilot Survey. V. The Physical Origin of Ly α Emitters Probed by Near-infrared Spectroscopy*’
29. Viero, M. P., Asboth, V., Roseboom, I. G., et al. including **Jogee, S.** 2014, ApJS, 210, 22: ‘*The Herschel Stripe 82 Survey (HerS): Maps and Early Catalog*’
30. Kannappan, S. J., Stark, D. V., Eckert, K. D., et al. including **Jogee, S.** 2013, ApJ, 777, 42: ‘*Connecting Transitions in Galaxy Properties to Refueling*’
31. Chiang, C.-T., Wullstein, P., Jeong, D., et al. including **Jogee, S.** 2013, JCAP, 12, 30: ‘*Galaxy redshift surveys with sparse sampling*’
32. Ciardullo, R., et al. including **Jogee, S.** 2013, ApJ, 769, 83: ‘*The HETDEX Pilot Survey. IV. The Evolution of [O II] Emitting Galaxies from $z \sim 0.5$ to $z \sim 0$* ’

33. Blanc, G. A., Weinzirl, T., Song, M., et al., including **Jogee, S.** 2013a, AJ, 145, 138: ‘*The VIRUS-P Exploration of Nearby Galaxies (VENGA): Survey Design, Data Processing, and Spectral Analysis Methods*’
34. Blanc, G. A., Schrubba, A., Evans, N. J., II, **Jogee, S.** et al. 2013b, ApJ, 764, 117: ‘*The VIRUS-P Exploration of Nearby Galaxies (VENGA): The X CO Gradient in NGC 628*’
35. Böhm, A., et al., including **Jogee, S.** 2013, A&A, 549, A46: ‘*AGN host galaxies at redshift $z \sim 0.7$: peculiar or not?*’
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Partial List of Conference and Workshop Proceedings

94. Escalante, Z., **Jogee, S.**, and Sherman, S. 2020, Compendium of Undergraduate Research in Astronomy and Space Science, ASP Conference Series, Vol. 525, San Francisco: Astronomical Society of the Pacific, p.21 (Editors: Joseph B. Jensen, Jonathan Barnes, and Beth Wardell): *‘The Star Formation Rate of Massive Dusty Galaxies at Early Cosmic Times’*
95. Sherman S., **Jogee, S.**, Florez, J., F., et al. 2019, poster presented at the GMT0 7th Science Community Meeting on the Cosmic Baryon Cycle, Carlsbad, CA, Sept 19–21, 2019: *‘Exploring the High-Mass End of the Stellar Mass Function of Star Forming Galaxies at Cosmic Noon’*
96. Florez, J., **Jogee, S.**, Sherman S., et al. 2019, poster presented at the GMT0 7th Science Community Meeting on the Cosmic Baryon Cycle, Carlsbad, CA, Sept 19–21, 2019: *‘Exploring the Connection Between AGN and SF at Cosmic Noon’*
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98. Stevans S., Finkelstein S. L., Wold, I. et al. including **Jogee, S.**, 2019, American Astronomical Society, AAS Meeting #233, id.430.04: *‘Investigating the Shut-Down of Star Formation at High Redshift’*
99. Florez, J., **Jogee, S.**, Sherman S., et al. 2018, invited oral presentation at the conference on “Accretion History of AGN (AHA)”, University of Miami, Oct 19-21, 2018: *‘Exploring AGN and SF Activity at Cosmic Noon (z 1-3)’*
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106. Stevans, M. L., Finkelstein, S. L., Gebhardt, K., et al. including Jogee, S., 2014, American Astronomical Society Meeting Abstracts #223, 223, #254.47: *'The NEWFIRM HETDEX Survey - Studying Galaxy Growth with 400,000 Galaxies at $2 < z < 3.5$ '*
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Chapters in Books

1. Author of invited chapter entitled ‘*Fueling and Evolution of AGN: Internal and External Triggers*’ in book entitled ‘*Physics of Active Galactic Nuclei at all Scales*’: **Jogee, S.** 2006, Lecture Notes in Physics, Vol. 693, Eds. D. Alloin, R. Johnson, and P. Lira (Springer: Berlin Heidelberg), 143 (astro-ph/0408383). This textbook is aimed at Ph.D. students and young researchers.

Publications Edited

1. Main editor of book Entitled ‘Galaxy Evolution: Emerging Insights and Future Challenges’, Editors S. Jogee, I. Marinova, L. Hao, and G. Blanc (San Francisco, CA: ASP),

Technical Publications

1. Koekomoer, A., **Jogee, S.**, Beckwith, S. V. W., and Stiavelli, M. 2003: ‘*Radio and Sub-mm Considerations for the ACS Ultra Deep Field*’²
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3. **Jogee, S.** 2003: ‘*A primer for ACS instrument reviews of Phase II proposals*’⁴

²<http://www.stsci.edu/science/udf>

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⁴<http://www.stsci.edu/hst/acs/phase2support/>

Appendix C: Select List of Talks

Summary of Talks: I have presented over 60 invited colloquia and talks at different insitutions and conference venues (e.g., in USA, England, France, Germany, the Netherlands, Italy, Spain, Chile, South Africa, etc) on research, STEM education, and academic leadership. Below is a select list of talks:

1. Invited to deliver the 2021 Great Lecture in Astronomy entitled ‘*Galaxies, Science and Society: Breakthroughs and New Directions.*’ (April 2021)
2. Hosted College of Natural Sciences Science Festival session (standing in for Dean Paul Goldbart) entitled “*Cosmic Beginnings*” and featuring astronomy faculty (Feb. 2021)
3. Presentation in recognition of the scientific accomplishments of Astronomy Professor (John Kormendy) for his induction to the National Academy of Sciences (Aug. 2020).
4. Presentation to the President’s Misconduct Working Group on ‘Title IX and Fostering a Safe Inclusive Working and Learning Environment’ (Feb. 2020)
5. Presentation to the University Faculty Gender Equity Council (Aug. 2020)
6. Invited Talk on ‘Acaademic Leadership and Develping s Vision Plan’, UT Academic Leadership Symposium (Aug. 2019)
7. Department Chair’s Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2019, July 2019)
8. Presentation of Staretgic Vision and Philanthropic Priorities to the Philanthropic Committee (Feb. 2019)
9. Presentation of the Astronomy Department’s Budget Priorities to the College of Natural Sciences Strategic Planning Council (Feb. 2019)
10. Interview (in English and French) with Exception Magazine on Astronomy research and being a female astrophysicist (2018)⁵
11. Presentation of Staretgic Vision and Philanthropic Priorities to the Philanthropic Committee (July 2018)
12. Department Chair’s Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2018, July 2018)
13. Invited talk on ‘Cosmic Explorations, Interdisciplinary Partnerships, and STEM Education’, National Association of Women Business Owners (April 2017)
14. Department Chair’s Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2017, July 2017)
15. Presentation on ‘Department Strategic Vision Plan and Challenges for the Next Decade’, Astronomy Program Strategic Retreat (Sep. 2016)

⁵<http://www.as.utexas.edu/~sj/epo/Exception-Poncini-Interview-2018.pdf>

16. Voice America one hour radio interview⁶ highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)
17. Presentation of the Astronomy Department's Budget Priorities to the College of Natural Sciences Budget Council (Dec. 2016)
18. Invited Talk on 'Developing a Department Vision Plan', UT Academic Leadership Symposium (Aug. 2016)
19. Department Chair's Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2016, July 2016)
20. Presentation of the education and research mission of the Astronomy program to the State of Texas Legislative Staff, including staff from Governor Abbott's office, the Senate Higher Education Committee, the Senate Finance Committee, and the House Appropriations Committee (July 2016)
21. Presentation of the Astronomy Department's Budget Priorities to the College of Natural Sciences Budget Council (Dec. 2015)
22. Presentation of the Astronomy Department's Strategic Vision Plan at the Dean's retreat for Department Chairs (Aug. 2015)
23. Invited Review Talk entitled 'Transforming Galaxies since $z \sim 3$ via Mergers, Gas Accretion, and Secular Processes' at the international conference on "The Many Pathways to Galaxy Growth", June 2015, Prato, Italy.
24. Invited Talk on 'Assembly of Massive Galaxies: Emerging Insights and Outstanding Challenges', Monash University, Australia, June 2015
25. Invited colloquium, Physics & Astronomy Department, University of Alabama, January 2015
26. Invited Talk on 'The Triggering Mechanisms for Active Galactic Nuclei', Lorentz Center, Leiden, The Netherlands (July 2013)⁷
27. Invited talk at the conference on 'High redshift galaxies with CCAT', University of Colorado, USA (Sep 2012; by invitation only)⁸
28. Invited talk at the conference on 'Disc Galaxy Formation in a Cosmological Context', Max Planck Institute for Astronomy, Heidelberg, Germany (May 2012; by invitation only)⁹
29. Invited colloquium, Harvard University, Institute for Theory and Computation, USA (March 2011)
30. Invited talk at the workshop on 'Pioneering into the Extragalactic Frontier with the Giant Magellan Telescope', TAMU, USA (March 2011)
31. Invited talk at the Max Planck Institute for Extraterrestrial Physics (MPE) and DFG cluster of excellence 'Origin and Structure of the Universe', Germany (May 17, 2011)

⁶www.voiceamerica.com/episode/93888

⁷ <http://www.lorentzcenter.nl/lc/web/2013/559/program.php3?wsid=559&venue=Oort>

⁸<http://www.ccatobservatory.org/index.cfm/events.details?eventID=388>

⁹<http://www.mpia-hd.mpg.de/~DISKS/home.html>

32. Invited talk at the Max Planck Institute for Extraterrestrial Physics (MPE), Germany (May 25, 2011)
33. Invited talk at the ‘Starbursts 2010’ workshop, Granada, Spain (June 2010)
34. Invited talk at the Ringberg workshop on ‘Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution’, Germany (May 2010)
35. Contributed talk at the Fourth North American ALMA Science Center Conference on ‘Assembly, Gas Content and Star Formation History’, Charlottesville, Virginia, USA (Oct 2009).
36. Invited talk at the Galaxy Evolution Workshop organized by Harvard University and Keck Foundation, USA (Feb 2009; by invitation only)
37. Invited review talk at the conference on bar dynamics along the Hubble sequence, Italy (Aug. 2008)
38. Invited talk at the International Astronomical Union (IAU) Symposium 254, ‘The Galaxy Disk in a Cosmological Context’, Copenhagen, Denmark (June 2008)
39. Invited colloquium at the Harvard University, Institute for Theory and Computation, USA (Feb. 2008)
40. Invited colloquium at the University of California at Santa Cruz, USA (Jan. 2008)
41. Invited Plenary Talk at the 211th American Astronomical Society Meeting, USA (Jan. 2008): ‘*Evolution of Disk Galaxies: New Insights and Future Challenges*’
42. Invited talk at the workshop on ‘Galaxy and Black Hole Evolution: Towards a Unified View’, University of Arizona, USA (talks by invitation only; Nov. 2007).
43. Invited colloquium at the University of Arizona, USA (Nov. 2007)
44. Contributed talk at the conference on ‘Formation and Evolution of Galaxy Disks’, Rome, Italy (Oct. 2007)
45. Invited colloquium at the Space Telescope Science Institute, USA (May 2006)
46. Contributed talk at the conference on ‘Galaxies and Structures Through Cosmic Times’, Venice, Italy (March 2006)
47. Invited talk at the conference on ‘The Origin of the Hubble Sequence’, Vulcano, Italy (June 2005)
48. Invited talk at the conference on ‘Dynamics of Galaxies’, Las Vegas, USA (May 2005)
49. Invited review talk at the AAS Session 65, Galaxy Structure, USA (June 2004): ‘*Evolution and Impact of Large-Scale Bars in the last 10 Gyr*’
50. Contributed talk at the conference on ‘Penetrating Bars through Masks of Cosmic Dust: The Hubble Tuning Fork Strikes a New Note’, South Africa (June 2004)
51. Invited lecturer for the Lecture Series on on AGN Research organized by the European Southern Observatory, Santiago, Chile (Dec. 2003)
52. Invited talk at the MPE/MPIA Ringberg conference on ‘Center of Galaxies’, Germany (Nov. 2002)

53. Invited talk, Starburst Series, NASA Goddard Space Flight Center, USA (Sep. 2002)
54. Contributed talk at the Meudon conference on ‘Active Galactic Nuclei: from Central Engine to Host Galaxy’, France (July 2002)
55. Invited talk at the Center for Star Formation Studies, University of Santa Cruz, USA (July 2001)
56. Miscellaneous Colloquia/Seminars/Team Workshops (2001–2007): University of Florida, USA; Leiden Observatory, The Netherlands ; University of Massachusetts, USA; NASA Goddard Space Flight Center (GSFC), USA; Space Telescope Science Institute (STScI), USA; California Institute of Technology (Caltech), USA; Max Planck Institute for Astronomy (MPA) in Heidelberg, Germany; University of Nottingham, England.

Appendix D: Select List of Courses and Outreach Activities

Select List of Courses Taught and Educational Activities

- AST 386c: Properties and Evolution of Galaxies (Graduate Course; Fall 2016, 2014)
- AST 381c: Gravitational Dynamics (Graduate Course; Spring 2007, 2010)
- AST 386s: Extragalactic Astronomy Seminar (Graduate Course; Spring 2005, Spring 2006, Fall 2006, Spring 2007, Spring 2008, Fall 2013, Spring 2014, Fall 2014)
- Co-authored lecture series '*Physics of Active Galactic Nuclei at all Scales*', Lecture Notes in Physics, Vol. 693, Eds. D. Alloin, R. Johnson, & P. Lira (Springer: Berlin Heidelberg). This textbook is aimed at Ph.D. students and young researchers.
- AST 358: Galaxies and the Universe (Upper Division Undergraduate Course for Astronomy, Physics, and Engineering Majors; Spring 2006, 2008, 2009, 2012, 2013, 2015, 2020, 2021)
- I initiated and developed a new course entitled 'AST 376R: A Practical Introduction to Research in Astronomy and Astrophysics' to better prepare undergraduates for research and support the College of Natural Science Freshman Research Initiative. I taught this course to undergraduates, ranging from Freshmen and to upper division students in Astronomy, Physics, Engineering, and Computer science in Fall 2009, 2010, 2011, 2012, 2013, 2015, 2021).
- AST 301: Introduction to Astronomy (Undergraduate Course; Fall 2005, 2006)
- AST 104: Undergraduate Astronomy Seminar (Fall 2009)
- Used a UT FAST Tex Award for Instructional Innovation Techniques (2006), along with funding from NASA and NSF, to develop the *Galaxies and Cosmos Explorer Tool (GCET)*, an online tool to actively engage undergraduate students, high school students, and the general public in 'surfing' through large galaxy surveys conducted with NASA's *Hubble Space Telescope* and exploring galaxies through cosmic time.
- Lecturer for Honors colloquium, UT Austin (July 2005)
- Invited lecturer, Lecture Series on AGN Research organized by the European Southern Observatory (ESO) in Dec 2003
- Guest lecturer for 'Gas Dynamics & ISM' Graduate course, Caltech (2001)
- Training of new OVR0 observers for mm interferometry, Caltech (1999–2002)

Select Outreach Activities

1. Co-authored textbook aimed at Ph.D. students ('*Physics of Active Galactic Nuclei at all Scales*'), Lecture Notes in Physics, Vol. 693, Eds. D. Alloin, R. Johnson, & P. Lira (Springer: Berlin Heidelberg)
2. As a Public Voices Fellow with the OpEd Project, I published [an Op-Ed in the New York Times](#) entitled '*How to Reopen the Economy Without Killing Teachers and Parents*' and [an Op-Ed in the Dallas Morning News](#) entitled '*Removing Legacies of Racism: UT Austin Renames the Robert Lee Moore Hall*'.

3. [Voice of America one hour radio interview](#) highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)
4. [Interview with Exception Magazine](#) (in English and French) on Astronomy research and being a female astrophysicist (2018).
5. Invited to lead an inaugural feature video for “The Universe” exhibit hall in the [Perot Museum of Nature and Science in Dallas, Texas](#) to encourage students to pursue STEM careers (2012–Present)
6. Presentation of the education and research mission of the Astronomy program to the **State of Texas Legislative Staff**, including staff from Governor Abbott’s office, the Senate Higher Education Committee, the Senate Finance Committee, and the House Appropriations Committee (2016)
7. Invited talk on ‘*Cosmic Explorations, Interdisciplinary Partnerships, and STEM Education*’, [National Association of Women Business Owners](#) (2017).
8. Presentation of Astronomy program milestones and research highlights to the [McDonald Observatory and Department of Astronomy Board of Visitors](#) (with 200+ members) twice a year (2015 to 2019).
9. Various research and STEM-related presentations to CNS, Astronomy, and Physics groups (CNS Women in Natural Sciences (WINS), UG women in Physics UWIP), Astronomy Student Association (ASA)) (2016-17).
10. 2012: AAS Press Release entitled “Hubble Study Challenges Galaxy Major Mergers as Largest Driver of Galaxy Evolution”, by Jogee, S., Weinzirl, T., Conselice, C., and the GOODS-NICMOS Survey team
11. 2010: Speaker and Member of Guest Panel at the Bullock Texas State History Museum to commemorate the 20th anniversary of the *Hubble Space Telescope* and introduce the Hubble IMAX movie
12. 2009: Delivered a videoconference talk and hosted a Q&A session with a science class at the Khabele School in Austin (for early childhood through 12th grade kids).
13. 2009–2010: Produced an outreach video on YouTube entitled ”Radical Transformations: Studying the Coma Cluster”, featuring faculty and graduate students conducting research on the Coma cluster, using Hubble Space Telescope data :
<http://www.youtube.com/stardatemagazine#p/u/8/hvSzVW1KACE>
<http://www.youtube.com/mcdonaldobservatory#p/u/14/INHQxhqVtKQ>
14. 2008–2010: Led the US-based EPO program for the HST ACS Treasury Survey of the Coma cluster. Worked with the McDonald EPO office to produce five Stardate radio programs on the Coma cluster, which were aired on May 5 to 9, 2008, to a weekly audience of over ten million people. An additional 250,000 Spanish-speaking people were reached via The Universo radio program. Other deliverables include the nationally-distributed Universo Teacher’s Guide; class activities related to the ACS Treasury Survey of Coma Cluster; and a Viewspace movie shown in museums across the country.

15. 2008: Joint NASA/UT Austin/McDonald Observatory Press Conference: 'Study from Hubble, Spitzer Space Telescopes Reveals Cosmic Fireworks Fizzled Out at Universe Reached Mid-Life'.
16. 2006: Invited speaker, River Oaks Club, Houston, Texas
17. 2004: Press Conference at AAS 203rd meeting, Atlanta: '*Hubble Makes Mosaic of 10,000 Galaxies*'. Press coverage in ACS news, Sky and Telescope, MSNBC, Reuters, Space News, Science Daily, Astro News German Max Planck Society Press Release Astrobiology magazine, etc