

# Curriculum Vitae (Shardha Jogee)

## Address

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## Education

- Yale University, U.S.A – Astronomy – Ph.D. (1999), M. Phil. (1994), M. S. (1994).
- Cambridge University, England – Physics – B.A. (1992), M.A. (1995).

## Employment

- 2015–Present: Astronomy Department Chair, University of Texas at Austin.
- 2014–2015: Astronomy Department Associate Chair, University of Texas at Austin.
- 2014–Present: Professor, Astronomy, University of Texas at Austin.
- 2009–2013: Associate Professor, Astronomy, University of Texas at Austin.
- 2004–2008: Assistant Professor, Astronomy, University of Texas at Austin.
- 2002–2004: Assistant Astronomer, Space Telescope Science Institute.<sup>1</sup>
- 1998–2002: Postdoctoral Scholar, California Institute of Technology (Caltech)

**Summary of Grant Awards:** I have been awarded  $\sim$ \$3.4 M in external research and education grants over the period 2004 to 2017. Research grants account for  $\sim$ \$2.8 M, of which  $\sim$ \$2.2 M are from grants where I am the Principal Investigator. 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 the CV. In the past 3.5 years, I have been the PI of three successful NSF AAG grants (2014, 2015, 2017) and one NASA grant (2014) for a total of  $\sim$  \$1.6 M, of which  $\sim$  \$1.1 M was awarded to UT Austin: Below are a few selected awards:

1. PI: National Science Foundation Research Experience for Undergraduates (REU) grant, 2018-2021 (\$399,000): ‘*Frontier Research and Training in Astronomy for the 21st Century*’.
2. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2015-2018 (\$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*’.
3. UT PI: NASA, Strategic University Research Partnerships Program, 2014 (\$75,000): ‘*Galaxy Growth at  $z \sim 2 - 4$ : From Voids to Proto-Clusters.*’

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<sup>1</sup>Space Telescope Science Institute (STScI) oversees the scientific operations of NASA’s *Hubble Space Telescope* and the future James Webb Space Telescope.

4. 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.’*
5. PI: Norman Hackerman Advanced Research Program (NHARP) grant, 2010-2013 (\$149,000): *‘Student Support for VENGA: Understanding Galaxy Evolution in the Nearby Universe.’*
6. PI: NASA Long Term Space Astrophysics (LTSA) grant, 2003-2011 (\$558,000): *‘Structure and dynamics of local and intermediate redshift disks.’*
7. 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.’*
8. Co-PI: NSF STEM Undergraduate Education award (DUE-0807140), 2008 (\$600,000): *‘Scientists for Tomorrow.’*

**Summary of Publications:** As of October 2018, my publication record includes 188 publications of which 78 are peer-reviewed refereed publications in high impact journals. My publications have received over 7350 citations, my current citation rate is over 490 citations per year, and my h-index is 43. A detailed publication list is provided in Appendix B of the CV.

**Summary of Talks:** I have presented over 60 invited colloquia and talks at universities and conferences (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 the CV.

## Research Program

- **Overview:** 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?
- **International Science Collaborations:** I am a member of the following international science collaborations, which have conducted some of the largest or deepest galaxy surveys to date. Within these collaborations, my research group have *led* a dozen papers on the structure, merger, and assembly history of galaxies that have contributed to over 800 citations (among my total citations of  $\sim 6990$ ).
  - Galaxy Evolution from Morphology and SEDs (GEMS).<sup>2</sup>
  - Great Observatories Origins Deep Survey (GOODS).<sup>3</sup>
  - Hubble ACS Ultra Deep Field (HUDF).

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<sup>2</sup><http://www.mpia.de/GEMS/gems.htm>

<sup>3</sup><http://www.stsci.edu/science/goods/>

- Space Telescope A901/902 Galaxy Evolution Survey (STAGES).<sup>4</sup>
  - HST ACS Treasury Survey of the Coma Cluster.<sup>5</sup>
  - GOODS-NICMOS Survey (GNS) of Massive Galaxies at  $z \sim 2$ .
  - The VIRUS-P Exploration of Nearby Galaxies (VENGA).
  - Hobby-Eberly Telescope Dark Energy Experiment (HETDEX).<sup>6</sup>
- **Research highlights:** Some key results from my group include: (a) While earlier work suggested a dearth of barred galaxies at early epochs, we were the first to demonstrate that strong stellar bars are common in massive disk galaxies over the last eight billion years, a period long enough for bars to drive significant secular evolution of galaxies (Jogee et al. 2004); (b) We showed that contrary to common lore, only at most 30% of the cosmic star formation rate density can be assigned to visible major mergers over half of the age of the Universe. We also set the first empirical constraints on the minor merger rate of galaxies over that epoch (Jogee et al. 2009); (c) We found that when the Universe was merely a few billion years old, the majority ( $> 60\%$ ) of massive galaxies were disk-dominated and over a third were ultra-compact (Weinzirl, Jogee et al. 2011). This result poses serious challenges to current state-of-the-art theoretical models.
  - **Current leadership role in SHELA/HETDEX:** I am the UT PI for the NSF-funded project (2015-2019) to conduct an *unprecedented study of how massive galaxies grow across different environments at the important epoch ( $1.9 < z < 3.5$ ) when massive proto-clusters collapsed into existence and star formation and black hole accretion peaked*. The project targets about 0.8 million massive galaxies in the SHELA/HETDEX field via a powerful combination of five existing photometric surveys from UV to far-infrared wavelengths and future HETDEX spectroscopy. The *humongous comoving volume* ( $0.45 \text{ Gpc}^3$  at  $1.9 < z < 3.5$ ) our data probe is over a factor of ten larger than volumes sampled to date by earlier datasets. This study will provide the best constraints to date on the most massive galaxies and proto-clusters in the Universe at  $1.9 < z < 3.5$  and thereby stringently test galaxy paradigms. My two graduate students are leading core papers in this project and initial results were presented at conferences in 2017 (Sherman, Jogee et al. 2017; Florez, Jogee, et al. 2017).
  - **Students and Postdocs Advised:** (a) 7 graduate students advised as main PhD or Masters advisor: Andreia Carillo, Jonathan Florez, Amanda Heiderman, Kyle Kaplan, Irina Marinova, Sydney Sherman, Tim Weinzirl. (b) 10 graduate students advised as part of their thesis and second-year committees: Yi-Kuan Chiang, Jason Jaacks, Sinclair Manning, Eva Noylola, Aaron Smith, Mimi Song, Matt Stevans, Rebecca Tippens, Benny Tsang, Nalin Vutisalchavakul. (c) 2 NASA-funded research analysts supervised: James Davies, Inge Heyer. (d) 4 postdoctoral fellows advised: Dr. Fabio Barazza, Dr Ingo Berentzen (in collaboration with Prof. Shlosman), Dr. Lei Hao, Dr. Tim Weinzirl. (e) Over 37 undergraduates students supervised: Dean's Scholar Sarah Miller; (awarded a Rhodes Scholarship in 2009), Dean's Scholar Kyle

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<sup>4</sup>[www.nottingham.ac.uk/ppzmeg/stages](http://www.nottingham.ac.uk/ppzmeg/stages)

<sup>5</sup>[astronomy.swin.edu.au/coma/](http://astronomy.swin.edu.au/coma/)

<sup>6</sup><http://hetdex.org/hetdex/>

Penner, Kyle Lake, Steven Roloff, Jack Long, Nicholas Watson, Rebecca Larson, and over 30 other undergraduate students in the Research Methods course I designed.

### **Service at the Departmental Level as Department Chair**

As Chair of the UT Astronomy Department (September 2015–present), my activities have included promoting an inclusive culture of excellence and innovation; development of a strategic vision plan for research and educational growth; faculty development (hiring, mentorship, evaluation, promotion, retention, and retirement); development of our educational mission and advancement of students and postdocs; improvement of space facilities; external relations and high-level philanthropy; staff development; governance, operations, and budget management. Examples of a few specific contributions are listed below. A detailed description is available upon request

1. Development of a **strategic vision plan** for advancing our research program in both core areas and interdisciplinary fields, while maximizing our science leadership in the future Giant Magellan Telescope (GMT) for which UT is a major founding partner with a contribution goal of \$100 M.
2. Leadership role in the **self-study** of the Astronomy program, culminating in a **positive and constructive external review** in March 2017
3. Over three years, I oversaw the **retirement of six members (27%)** of the faculty, **the hires of three top-tier faculty members** in star formation (Offner), near-field cosmology (Hawkins), and planetary science (Morley), the **retention of three faculty members** in extragalactic science and the **early promotion and tenure** of one faculty member (Finkelstein). We have also improved **faculty diversity** by hiring two leading female scientists (thereby tripling the number of female TT faculty) and our first African American faculty
4. Recipient (as PI) of a **NSF Research Experience for Undergraduates (REU) grant award** (~ \$0.4 M) in 2017 to support the UT Astronomy Department as a national REU site for ‘Frontier Research and Training in Astronomy for the 21st Century’ This grant adds to two other active NSF grants I hold as PI, and contributes towards a **total award of \$1.1 M between 2014 and 2017**.
5. Development of a **new state-of-the-art UG research and teaching computer lab** by securing funds (~ \$350,000) through philanthropy (aided by a video <https://youtube/i2qOmYnK3mg>), matching funds from the UT College of Natural Sciences, and department resources. This lab is essential for a research-centered model of education in our UG program whose size has doubled over the last five years.
6. Development of a **UT Astronomy Planetary Science program** through an inter-disciplinary collaboration between the Astronomy program, the Jackson School of Geosciences (JSG), and the Department of Molecular Biosciences. Showcased UT Astronomy to the Heising-Simons Foundation (HSF) leading UT to now be **one of the 10 elite astronomy programs in the nation who can compete yearly for this HSF Prize Postdoctoral Fellowship..**

7. **Philanthropic initiatives and fundraising** for the \$5 M Astronomy Research Endowed Excellence Fund (AREEF) and the next-generation Giant Magellan Telescope (GMT) for which UT is a major founding partner with a contribution goal of \$100 M. **Cultivation and stewardship** of the McDonald Observatory and Department of Astronomy Board of Visitors with 200+ members.
8. Development of resources for the **training, mentorship, and professional development of postdocs and graduate students**, including updates to the graduate curriculum, summer support for graduate students, a resource site for postdocs<sup>7</sup> and a network of informal mentors<sup>8</sup>.
9. **Advancement of an inclusive culture** that fosters a broader participation of women and under-represented groups in STEM. We have improved the **diversity of our faculty** (see item 3); **reduced salary and resource inequity**; implemented **best practices** for hires, evaluation, and admission; and provided support for equity groups, I serve as a member of the Heising-Simons Foundation (HSF) Physics and Astronomy Leadership Council. I have been recently appointed to the University Faculty Gender Equity Council by the Provost (Oct. 2018).
10. **Strategic outreach and external relations** including presentations to the State of Texas Legislative Staff, the National Association of Women Business Owners, and Voice America one hour radio interview.<sup>9</sup>

### Other Service at the Departmental Level

- Chair, Search Committee for the Astronomy Academic Program Coordinator (2016)
- Member, Search Committee for the McDonald Observatory and Astronomy Department Director of Development (2016)
- Member, Search Committee for the McDonald Observatory and Astronomy Department Director of Business Administration (2016)
- Astronomy Department Associate Chair (Sep. 2014–Aug. 2015)
- Chair, Graduate Studies Executive Committee (GSEC) (2012–2014)
- Member, Faculty Search Committee (2011–2012)
- Member, Faculty Evaluation Committee (2011–2013)
- Chair, Extragalactic Research Group (2010–2012)
- Member, Graduate Admission Committee, UT Austin (2009–Present)
- Undergraduate Advisor, Astronomy Department, UT Austin (2005–2009)

### Service at the College and University Level

- Selected for the University of Texas Executive Management and Leadership Program (UTEMPLP), sponsored by the Provosts Office (Jan–May 2018).

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<sup>7</sup>[www.as.utexas.edu/astronomy/education/postdocs.html](http://www.as.utexas.edu/astronomy/education/postdocs.html)

<sup>8</sup>[www.as.utexas.edu/astronomy/education/postdocs.html](http://www.as.utexas.edu/astronomy/education/postdocs.html)

<sup>9</sup>[www.voiceamerica.com/episode/93888](http://www.voiceamerica.com/episode/93888)

- Selected to represent UT Austin in the Leadership Texas Program for women leaders in industry, government, and academia (2014)
- Member of the Advisory Council for the Texas Institute for Discovery Education in Science (TIDES) (2014–2015)
- Member of the UT College of Natural Sciences (CNS) Strategic Planning Task Force set by up the CNS Dean Linda Hicke. The task force advised and worked collaboratively with the Dean in creating a dynamic and innovative five-year plan for the college’s future I led the white paper on “Graduate Student Support” and co-authored the white paper on “Faculty Hiring Practices” (2012–2013).
- Member of the UT CNS Strategic Planning Implementation Teams for graduate student support (led by Associate Dean Dean Appling), and for increasing the success of students from traditionally underrepresented groups in STEM fields (led by Associate Deans Sacha Kopps and Shelley Payne) (2013–2014).
- Member, Dean’s Scholars Steering Committee, UT Austin (2006–2009)
- CNS Course and Curriculum representative, UT Austin (2005–2006)

### Service at the National and International Level

- Referee for internationally established journals, including the *Astrophysical Journal* (ApJ), *Astrophysical Journal Letters* (ApJL), *Astronomy & Astrophysics* (A&A), and *Monthly Notices of the Royal Astronomical Society* (MNRAS) (2000–Present)
- Invited member of the Heising-Simons Foundation Physics and Astronomy Leadership Council (PALC) with a planned award of \$75,000 to develop local and national initiatives to recruit, retain, and advance women in STEM (2017).
- UT representative on the American Astronomical Society (AAS) Department Chairs Council (Sep. 2015–Present)
- 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 NASA *Hubble Space Telescope* Time Allocation Panel (2006–present)
- Member of the Giant Magellan Telescope (GMT) science working group (2008–2009)
- Member of the Cerro Chajnantor Atacama Telescope (CCAT) science working group (2006–2012)
- Member of the Home Planning Team for the Hubble ACS Ultra Deep Field (HUDF) conducted with NASA’s *Hubble Space Telescope*. I led and co-authored two planning documents: (1) “*Planning of the ACS Ultra Deep Field*”, by Joglee, S., Ferguson, H., Stiavelli, M., Panagia, N., and Riess, A. ; (2) “*Radio and Sub-mm Considerations for the ACS Ultra Deep Field*”, by Koekomoer, A., Joglee, S., Beckwith, S. V. W., and Stiavelli, M.. ([www.stsci.edu/hst/udf](http://www.stsci.edu/hst/udf))

- Member of the Scientific Organizing Committee for the 3rd North American ALMA Science Center Meeting, held in Oct. 2009
- Chair of the Scientific Organizing Committee for the conference entitled ‘Galaxy Evolution: Emerging Insights and New Challenges’, held at UT Austin in Nov. 2008 (<http://www.as.utexas.edu/utgal08/>)
- Member of the Scientific Organizing Committee for the conference on galaxy dynamics along the Hubble sequence, held in Italy in 2008 (<http://www.astro.unipd.it/omega08/>)
- Member of the Scientific Organizing Committee for the STScI Symposium (May 2003)
- ACS Contact Scientist Lead and User Support Lead for the Advanced Camera for Surveys on the Hubble Space Telescope, Space Telescope Science Institute. I supervised the work of 12 instrument scientists for Phase II proposals (2002–2004)
- Member of the Caltech OVRO Time Allocation Committee (1999–2002)

## Academic and Teaching Awards

- College of Natural Science Teaching Excellence Award, UT Austin (2012)
- Board of Visitors Teaching Excellence Award, UT Austin (2011)
- 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)
- Yale University J. F. Enders Research Fellowship, Yale University (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)

**Selected 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)
- Voice America one hour radio interview<sup>10</sup> highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)
- Invited to lead a feature video for “The Universe” exhibit hall in the new Perot Museum of 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)
- Used a UT Award for Instructional Innovation Techniques along with funding from NASA and NSF, to develop the *Galaxies and Cosmos Explorer Tool (GCET)*<sup>11</sup>, 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.
- 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 Astronomy program Board of Visitors (with 240 members) twice a year (Feb. 2016, July 2016, Feb. 2017, July 2017).

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<sup>10</sup>[www.voiceamerica.com/episode/93888](http://www.voiceamerica.com/episode/93888)

<sup>11</sup><http://www.as.utexas.edu/gcet/>



## LIST OF APPENDICES FOR THE CURRICULUM VITAE

- Appendix A: Select List of Grant Awards
- Appendix B: Select List of 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  $\sim$ \\$3.4M USD in external research and education grants over the period 2004 to 2017. Research grants account for  $\sim$ \\$2.8 M, of which  $\sim$ \\$2.2 M are from grants where I am the Principal Investigator. Education and outreach grants account for  $\sim$ \\$0.7 M. For multi-institution grants, the grant amounts listed above only include 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: National Science Foundation Research Experience for Undergraduates (REU) grant, 2018-2021 (\\$399,000): *'Frontier Research and Training in Astronomy for the 21st Century'*
2. PI: National Science Foundation Astronomy and Astrophysics Grant (AAG), 2015-2018 (\\$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'*
3. Award for strategic initiatives by the Heising-Simons Foundation, 2017 (\\$50,000)
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, 2014-16 (\\$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: Cox Research Excellence Fund, 2013 (\\$12,000): *'Galaxy Evolution as a Function of Environment at  $1.9 < z < 3.5$  with HETDEX'*
9. PI: Norman Hackerman Advanced Research Program (NHARP) grant, 2010-2013 (\\$149,000): *'Student Support for VENGA: Understanding Galaxy Evolution in the Nearby Universe'*
10. PI: NASA Long Term Space Astrophysics (LTSA) grant, 2003-2011 (\\$558,000): *'Structure and dynamics of local and intermediate redshift disks'*
11. 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'*
12. PI: NASA Education and Public Outreach award (NNG 06GB99G), 2006 (\\$45,000): *'Building a Bridge to Texas High School Science Teachers and Students'*
13. 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'*
14. Co-PI: NSF STEM Undergraduate Education award (DUE-0807140), 2008 (\\$600,000): *'Scientists for Tomorrow'*

15. Co-PI: NASA Hubble Space Telescope award GO-11082, 2007 (180 orbits; \$68,268): *'NICMOS Imaging of GOODS'*
16. Co-I: Spitzer/HETDEX Cycle 8 grant, 2011 (\$325,720): *'Spitzer-HETDEX Exploratory Large Area (SHELA) Survey'*
17. Co-PI: NASA Hubble Space Telescope award GO-10861, 2006 (164 orbits; \$57,105): *'An ACS Treasury Survey of the Coma Cluster'*
18. Co-I: CalTech/JPL Spitzer grant (1288650), 2006 (\$53,042): *'Understanding the Blue-Sequence E/S0'*
19. 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'*
20. 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 2018, my publication record includes 188 publications, of which 78 are peer-reviewed refereed publications in high impact journals. My publications have received over 7350 citations, my current citation rate is over 490 citations per year, and my h-index is 43.
- My refereed papers are published in recognized high-impact journals, which are listed in the publication list under the following acronyms:
  - ApJ: The Astrophysical Journal
  - ApJL: The Astrophysical Journal Letters
  - ApJS: The Astrophysical Journal Supplement
  - ARA: Annual Reviews of Astronomy and Astrophysics
  - AJ: The Astronomical Journal
  - A&A: Astronomy & Astrophysics Journal
  - A&A Suppl.: Astronomy & Astrophysics Supplement
  - JCAP: Journal of Cosmology and Astroparticle Physics
  - MNRAS: Monthly Notices of the Royal Astronomical Society
  - Nature: Nature Journal
  - PASP: Publications of the Astronomical Society of the Pacific
- Many of my papers have long author lists as I am a member of seven large international science collaborations, which are conducting some of the largest and deepest survey of galaxies to date, using NASA's *Hubble Space Telescope* (GEMS (Rix et al. 2004); GOODS (Giavalisco et al. 2004); the Hubble ACS Treasury survey of Coma (Carter et al. 2008); STAGES (Gray et al. 2009); the GOODS-NICMOS Survey or GNS (Conselice et al. 2011)), and the ground-based McDonald Observatory (VENGA (Blanc et al. 2013); HETDEX (Hill et al. 2008)). 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; Heiderman, Jogee, et al. 2009; Weinzirl, Jogee, et al. 2009, 2011, 2013; Barazza et al. 2006, 2008, 2009a, 2009b; Kaplan, Jogee et al. 2013 in preparation; Hao, Jogee et al. 2013 in preparation; etc). My contributions are significant in papers led by graduate students, undergraduate students, and postdoctoral fellows in my research group, including 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.

### Refereed Publications

1. Sherman, S., **Jogee, S.**, Florez, J. et al 2018, MNRAS, in prep.: *'The Mass Function of Massive Galaxies over  $z$  1.5 to 4 from the SHELA/HETDEX Survey'*

2. Florez, J., **Jogee, S.**, Sherman, S. et al 2018, MNRAS, in prep.: ‘*Star Formation in AGN Hosts and Inactive Galaxies over  $z$  1.5 to 4 from the SHELA/HETDEX Survey*’
3. Kawinwanichakij, L., Casey, P., Wold, I. et al. including **Jogee, S.** 2018, ApJ, in prep.: ‘*Dark Energy Camera Catalog for the SHELA Survey: On the Lack of Evolution of Stellar Mass Function of Massive Galaxies*’
4. Wold, I., Kawinwanichakij, L., Stevans, M. L. et al. including **Jogee, S.** 2018, ApJ, submitted: ‘*Dark Energy Camera Catalog for the SHELA Survey*’
5. 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*’
6. 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)*’
7. 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)*’
8. 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*’
9. Papovich, C. et al. including **Jogee, S.** 2016, ApJS, 224, 28: ‘*The Spitzer-HETDEX Exploratory Large-area Survey*’
10. 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*’
11. Hoyos, C. et al. including **Jogee, S.** 2016, MNRAS, 455, 295: ‘*Linking the structural properties of galaxies and their star formation histories with STAGES*’
12. Cordero, J. P. et al. including **Jogee, S.** 2016, ApJL, 817, L6: ‘*Dry Merger Rate and Post-merger Fraction in the Coma Cluster Core*’
13. 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*’
14. Hao., L. **Jogee, S.**, Barazza, F., & Marinova, I. 2016, MNRAS, in preparation: ‘*Bars in Starbursts and AGNs – A Quantitative Reexamination*’
15. 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*’

16. 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*’
17. 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*’
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### Technical Publications

174. Koekomoer, A., **Jogee, S.**, Beckwith, S. V. W., and Stiavelli, M. 2003: '*Radio and Sub-mm Considerations for the ACS Ultra Deep Field*' (<http://www.stsci.edu/science/udf>)
175. **Jogee, S.**, Ferguson, H., Stiavelli, M., Panagia, N., and Riess, A., 2002: '*Planning of the ACS Ultra Deep Field*' (<http://www.stsci.edu/science/udf>)
176. **Jogee, S.** 2003: '*A primer for ACS instrument reviews of Phase II proposals*' (<http://www.stsci.edu/hst/acs/phase2support/>)

### Appendix C: Select List of Talks

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

1. Department Chair's Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (July 2017)
2. Invited talk on "Cosmic Explorations, Interdisciplinary Partnerships, and STEM Education", National Association of Women Business Owners (April 2017)
3. Department Chair's Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2017)
4. Voice America one hour radio interview<sup>12</sup> highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)
5. Presentation of "Department Strategic Vision Plan and Challenges for the Next Decade", Astronomy Program Strategic Retreat (Sep. 2016)
6. Invited Talk on "Developing a Department Vision Plan", UT Academic Leadership Symposium (Aug. 2016)
7. 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)
8. Department Chair's Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (July 2016)
9. Department Chair's Presentation on Astronomy Program Milestones and Research Highlights to the Astronomy Board of Visitors (Feb. 2016)
10. Presentation of the Astronomy Department's Budget Priorities to the CNS Budget Council (Dec. 2015, Dec. 2016)
11. Presentation of the Astronomy Department's Strategic Vision Plan at the Dean's retreat for Department Chairs (Aug. 2015)
12. 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.
13. Invited Talk on 'Assembly of Massive Galaxies: Emerging Insights and Outstanding Challenges', Monash University, Australia, June 2015
14. Invited colloquium, Physics & Astronomy Department, University of Alabama, January 2015
15. Invited Talk at the conference on "The Triggering Mechanisms for Active Galactic Nuclei", Lorentz Center, Leiden, The Netherlands (July 2013)<sup>13</sup>

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<sup>12</sup>[www.voiceamerica.com/episode/93888](http://www.voiceamerica.com/episode/93888)

<sup>13</sup><http://www.lorentzcenter.nl/lc/web/2013/559/program.php3?wsid=559&venue=Oort>

16. Invited talk at the conference on “ High redshift galaxies with CCAT”, University of Colorado, USA (Sep 2012; by invitation only)<sup>14</sup>
17. 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) <sup>15</sup>
18. Invited colloquium, Harvard University, Institute for Theory and Computation, USA (Mar 2011)
19. Invited talk at the workshop on “Pioneering into the Extragalactic Frontier with the Giant Magellan Telescope”, TAMU, USA (Mar 2011)
20. 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)
21. Invited talk at the Max Planck Institute for Extraterrestrial Physics (MPE), Germany (May 25, 2011)
22. Invited talk at the “Starbursts 2010” workshop, Granada, Spain (June 2010)
23. Invited talk at the Ringberg workshop on ”Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution”, Germany (May 2010)
24. Contributed talk at the Fourth North American ALMA Science Center Conference on ‘Assembly, Gas Content and Star Formation History’, Charlottesville, Virginia, USA (Oct 2009).
25. Invited talk at the Galaxy Evolution Workshop organized by Harvard University and Keck Foundation, USA (Feb 2009; by invitation only)
26. Invited review talk at the conference on bar dynamics along the Hubble sequence, Italy (Aug. 2008)
27. Invited talk at the International Astronomical Union (IAU) Symposium 254, ‘The Galaxy Disk in a Cosmological Context’, Copenhagen, Denmark (June 2008)
28. Invited colloquium at the Harvard University, Institute for Theory and Computation, USA (Feb. 2008)
29. Invited colloquium at the University of California at Santa Cruz, USA (Jan. 2008)
30. Invited Plenary Talk at the 211th American Astronomical Society Meeting, USA (Jan. 2008): ‘*Evolution of Disk Galaxies: New Insights and Future Challenges*’
31. 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).
32. Invited colloquium at the University of Arizona, USA (Nov. 2007)
33. Contributed talk at the conference on ‘Formation and Evolution of Galaxy Disks’, Rome, Italy (Oct. 2007)
34. Invited colloquium at the Space Telescope Science Institute, USA (May 2006)

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<sup>14</sup><http://www.ccatobservatory.org/index.cfm/events.details?eventID=388>

<sup>15</sup><http://www.mpia-hd.mpg.de/~DISKS/home.html>

35. Contributed talk at the conference on ‘Galaxies and Structures Through Cosmic Times’, Venice, Italy (March 2006)
36. Invited talk at the conference on ‘The Origin of the Hubble Sequence’, Vulcano, Italy (June 2005)
37. Invited talk at the conference on ‘Dynamics of Galaxies’, Las Vegas, USA (May 2005)
38. 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’*
39. 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)
40. Invited lecturer for the Lecture Series on on AGN Research organized by the European Southern Observatory, Santiago, Chile (Dec. 2003)
41. Invited talk at the MPE/MPIA Ringberg conference on ‘Center of Galaxies’, Germany (Nov. 2002)
42. Invited talk, Starburst Series, NASA Goddard Space Flight Center, USA (Sep. 2002)
43. Contributed talk at the Meudon conference on ‘Active Galactic Nuclei: from Central Engine to Host Galaxy’, France (July 2002)
44. Invited talk at the Center for Star Formation Studies, University of Santa Cruz, USA (July 2001)
45. 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

### Courses Taught and Selected 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)
- 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 and 2015
- 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)*<sup>16</sup>, an online tool to 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)

### Selected Outreach Activities

1. Invited talk on “Cosmic Explorations, Interdisciplinary Partnerships, and STEM Education”, National Association of Women Business Owners (2017)
2. Voice America one hour radio interview<sup>17</sup> highlighting UT Astronomy, academic leadership, and my journey as a female astronomer (2016)

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<sup>16</sup><http://www.as.utexas.edu/gcet/>

<sup>17</sup>[www.voiceamerica.com/episode/93888](http://www.voiceamerica.com/episode/93888)



3. 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)
4. Presentation of Astronomy program milestones and research highlights to the Astronomy program Board of Visitors (240 members) twice a year (Feb. 2016, July 2016, Feb, 2017, July 2017).
5. 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).
6. Awarded a Graduate School Diversity Mentoring Fellowship and acting as mentor for a first-year female graduate student (2014-15).
7. 2012: Invited to lead a feature video for "The Universe" exhibit hall in the new Perot Museum of Science in Dallas, Texas, to encourage students to pursue STEM careers.
8. 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
9. 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
10. 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).
11. 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>
12. 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. 250,000 Spanish-speaking people were also 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.
13. 2006–2010: Used a UT FAST Tex Award for Instructional Innovation Techniques, along with funding from NASA and NSF, to develop the *Galaxies and Cosmos Explorer Tool (GCET)*<sup>18</sup>, an online tool to actively engage the general public, high school students, and undergraduate students in exploring the evolution of galaxies over a large fraction of the age of the Universe.

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<sup>18</sup><http://www.as.utexas.edu/gcet/>

14. 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'.
15. 2006: Invited speaker, River Oaks Club, Houston, Texas
16. 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