

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. Honors (1992), M.A. (1995)

Employment

- Sep 2015–Present: Astronomy Department Chair, University of Texas at Austin
- Sep 2014– August 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 Institute¹
- 1998–2002: Postdoctoral Scholar, California Institute of Technology (Caltech)
- 1992–1999: Research Assistant, Astronomy, Yale University

Grant Awards

- **Summary of Grant Awards:** Since 2003, I have received federal science and education grants totaling over 3 million USD (\$3,081,468). Science grants account for \$2,386,468 of which \$1,759,167 are from grants where I am the Principal Investigator (PI). Education and outreach grants account for \$695,000. 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.

1. PI: National Science Foundation, 2015 (\$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*’
2. UT PI: NASA, Strategic University Research Partnerships Program, 2014 (\$75,000): ‘*Galaxy Growth at $z \sim 2 - 4$: From Voids to Proto-Clusters*’
3. PI: National Science Foundation, 2014 (\$297,613): ‘*Unveiling the Assembly History of Galaxies by Dissecting their Structure, Chemical Evolution, and Stellar Populations*’

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

4. PI: Graduate School Diversity Mentoring Fellowship, 2014-15 (\$34,000)
5. PI: Cox Research Excellence Funds, matched with McDonald funds, 2014-16 (\$45,000): *'Surveys of the SHELA/HETDEX legacy field to Probe Obscured Star Formation as a Function of Environment at $z \sim 2 - 4$ '*
6. PI: Cox Research Excellence Funds, 2013 (\$12,000): *'Galaxy Evolution as a Function of Environment at $1.9 < z < 3.5$ with HETDEX'*
7. PI: Norman Hackerman Advanced Research Program (NHARP) grant, 2010-2013 (\$149,000): *'Student Support for VENGA: Understanding Galaxy Evolution in the Nearby Universe'*
8. PI: NASA Long Term Space Astrophysics (LTSA) grant, 2003-2011 (\$558,000): *'Structure and dynamics of local and intermediate redshift disks'*
9. PI: National Science Foundation (NSF) Grant, June 2006-2011 (\$311,748): *'Bars and their Impact on Galaxy Evolution over the Last Eight Billion Years'*
10. PI: NASA Education and Public Outreach award NNG 06GB99G, 2006 (\$45,000): *'Building a Bridge to Texas High School Science Teachers and Students'*
11. 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'*
12. Co-PI: NSF STEM Undergraduate Education award (DUE-0807140), 2008 (\$600,000): *'Scientists for Tomorrow'*
13. Co-PI: NASA Hubble Space Telescope award GO-11082, 2007 (180 orbits; \$68,268): *'NICMOS Imaging of GOODS'*
14. Co-I: Spitzer/HETDEX Cycle 8 grant, 2011 (\$325,720): *'Spitzer-HETDEX Exploratory Large Area (SHELA) Survey'*
15. Co-PI: NASA Hubble Space Telescope award GO-10861, 2006 (164 orbits; \$57,105): *'An ACS Treasury Survey of the Coma Cluster'*
16. Co-I: CalTech/JPL Spitzer grant (1288650), 2006 (\$53,042): *'Understanding the Blue-Sequence E/S0'*
17. 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'*
18. 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'*

Other Awards and Honors

1. Selected to represent UT College of Natural Sciences at the 2014 Leadership Texas Program for women leaders in industry, government, and academia.
2. College of Natural Science Teaching Excellence Award, UT Austin, Mar 2012
3. Board of Visitors Teaching Excellence Award, UT Austin, Dec 2011
4. Invited Plenary Talk at the 211th American Astronomical Society Meeting, 2008: *'Evolution of Disk Galaxies: New Insights and Future Challenges'*

5. American Association of University Women Educational Fellowship, 1996
6. Amelia Earhart Fellowship, Zonta International, 1996
7. Yale University J. F. Enders Research Fellowship, Yale University, 1995
8. Sigma Xi Grants-in-Aid of Research, Sigma Xi Society, 1995
9. Yale University J. F. Enders Research Fellowship, Yale University, 1995
10. Garfinkel Prize, Yale University, 1992
11. Elected to status of Fellow, Cambridge University, England, 1990-1992
12. Academic scholarship in Physics, Cambridge University, England, 1989-1992

Research Interests

- **Overview of Research Interests:** My research addresses cardinal questions on the evolution of galaxies as a function of redshift and environment. How do galaxies grow their stars, black holes, and dark matter halos across cosmic times and vastly different environments (field, groups, clusters)? What is the role played by theoretically-predicted growth modes, (e.g., violent mergers of galaxies) and more ‘quiescent’ modes (e.g., gas accretion along cosmological filaments and secular evolution driven by bars) in the global star formation and black hole activity ?

In the last decade, my group has been addressing these questions (e.g., Jogee et al. 2004, 2005, 2009; Heiderman, Jogee, et al. 2009; Marinova, Jogee et al. 2007, 2009, 2012; Weinzirl, Jogee et al. 2009, 2011, 2013; Barazza et al. 2008, 2009a, 2009b, etc), by quantifying the merger rate, star formation rate, and black hole activity of galaxies, and conducting ‘structural archaeology’ – the census of core stellar structures (classical bulges, stellar disks, and bars) at different cosmic epochs. We also work closely with internationally recognized theorists (e.g., Drs. Burkert, Hopkins, Hernquist, Khochfar, and Somerville) to perform detailed comparisons of empirical results with theoretical predictions in order to improve the model baryonic physics and advance galaxy evolution paradigms.

- **Leadership Role in SHELA/HETDEX:** I am co-leading scientific investigations of “Galaxy Evolution in Different Environments at $1.9 < z < 3.5$ in the SHELA/HETDEX Survey” The HETDEX/SHELA 28 deg² subfield will allow an unprecedented study of galaxies along different parts of the cosmic web at redshifts of $1.9 < z < 3.5$, over a phenomenal ~ 0.5 Gpc³ comoving volume, which hosts several tens of Coma-type and several hundreds of Virgo-type proto-clusters.
- **Leadership Role in VENGA:** Since 2009, I am a member of the VIRUS-P Exploration of Nearby Galaxies (VENGA; PI: G. Blanc), a powerful integral field spectroscopic survey of a large sample of 30 nearby representative spirals, conducted with over 150 nights of observing time using the VIRUS-P Integral Field Unit (IFU) on the 2.7m telescope at McDonald Observatory. I am the Principal Investigator of successful NHARP grant (2010-2013), and NSF grants (2014–2017) on VENGA. The NHARP grant has supported graduate students for proposing and conducting 60% of observations for the VENGA survey; for developing the data reduction pipeline; and conducting scientific analyses. VENGA is now 99% complete and provides a

phenomenal database of $\sim 44,000$ independent spectra, delivering exquisite, high-quality, spatially-resolved (on sub-kpc scales) moderate resolution ($\sim 5 \text{ \AA}$ FWHM at 5000 \AA), blue and red spectra out to large radii in the spiral galaxies mapped. It is spawning a wide range of scientific investigations on star formation (Blanc et al. 2010, 2012), chemical evolution of spirals (Kaplan, Jogee, Kewley et al. 2015), AGN (Hao et al. in prep.), stellar populations and star formation history (Song et al. in prep.).

- **Leadership Role in Large International Science Collaborations:** I am a Co-Investigator on five international science collaborations, which have conducted some of the largest and deepest space-based survey of galaxies to date with the *Hubble Space Telescope*, including the GEMS² (Rix et al. 2004); GOODS³ (Giavalisco et al. 2004); STAGES⁴ (Gray et al. 2009); The Hubble ACS Treasury survey of Coma⁵ (Carter et al. 2008); and the GOODS-NICMOS Survey (GNS) of Massive Galaxies (Conselice et al. 2011). Within these five science collaborations, my research group and I led core papers on the structure, merger, and assembly history of galaxies (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, etc).

Research Group and Advisees

- *Graduate Students Advised as man Advisor:* Andreia Carillo (2016-Present, Graduate Student, UT Austin); Sydney Sherman (2015-Present, Graduate Student, UT Austin); Jonathan Florez (2015-Present, Graduate Student, UT Austin); Kyle Kaplan (Dec 2011–Present, Graduate Student, UT Austin); Tim Weinzirl (Nov. 2006–2013, UT Austin; short-listed for Hubble Fellowship in 2013); Irina Marinova (Sep. 2005–2011, UT Austin; currently adjunct faculty at Southwestern University); Amanda Heiderman (Sep. 2006–2009, Graduate Student, UT Austin).
- *Graduate Students Advised as part of Thesis and Second-year Committees* Sinclair Manning (2016-Present, UT Austin; Graduate Student, UT Austin); Jason Jaacks (2013-Present, Graduate Student, UT Austin); Aaron Smith (2013-Present, Graduate Student, UT Austin); Benny Tsang (2013-Present, Graduate Student, UT Austin); Matt Stevans (2013-Present, Graduate Student, UT Austin); Rebecca Tippens (2014-Present, Graduate Student, UT Austin); Yi-Kuan Chiang (2012-2015, Graduate Student, UT Austin); Nalin Vutisalchavakul (2012-2015, Graduate Student, UT Austin); Eva Noylola (Graduate Student, UT Austin).
- *Master Level Data and Research Analyst:* James Davies (2004–2006, STScI); Inge Heyer (2003-2004, STScI)

²<http://www.mpia.de/GEMS/gems.htm>

³<http://www.stsci.edu/science/goods/>; Our involvement in GOODS is only peripheral due to conflicts of interest with GEMS

⁴www.nottingham.ac.uk/ppzmeg/stages

⁵astronomy.swin.edu.au/coma/

- *Undergraduates:* Dean’s Scholar Sarah Miller (UT Austin; awarded a Rhodes Scholarship and joined the graduate astrophysics program at Oxford University in 2009); Dean’s Scholar Kyle Penner (UT Austin; joined Ph.D. program at the University of Arizona in 2009); Kyle Lake (UT Austin); Steven Roloff (UT Austin); Jack Long (UT Austin); Nicholas Watson (UT Austin); Rebecca Larson (UT Austin).
- *Postdoctoral Fellows:* Dr. Fabio Barazza (UT Austin) Dr Ingo Berentzen (Univ. of Kentucky, in collaboration with Prof. Shlosman); Dr Tim Weinzirl (2013-present).

Partial List of Colloquia and Talks at International Conferences

Summary: I have given over 55 invited colloquia and talks at universities and research conferences (e.g., in USA, England, France, Germany, the Netherlands, Italy, Spain, Chile, South Africa, etc)

1. Invited Talk on “Developing a Department Vision Plan”, UT Academic Leadership Symposium (Aug. 2016)
2. Presentation of the education and research mission of the Astronomy department and its synergy with McDonald Observatory to the Texas Legislative Staff. Attendees included staff from Governor Abbott’s office, the Office of the Speaker, the House Appropriations Committee staff, the Senate Higher Education Committee staff, and the Senate Finance Committee staff (July 2016).
3. Astronomy Department Chair’s presentation to the Astronomy Board of Visitors (July 2016)
4. Astronomy Department Chair’s presentation to the Astronomy Board of Visitors (Feb. 2016)
5. Presentation of the Astronomy Department’s Budget Priorities to the CNS Budget Council (Dec. 2015)
6. Presentation of the Astronomy Department’s Strategic Vision Plan at the Dean’s retreat for Department Chairs (Aug. 2015)
7. 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.
8. Invited Talk on ‘Assembly of Massive Galaxies: Emerging Insights and Outstanding Challenges’, Monash University, Australia, June 2015
9. Invited colloquium, Physics & Astronomy Department, University of Alabama, January 2015
10. Invited Talk at the conference on “The Triggering Mechanisms for Active Galactic Nuclei”, Lorentz Center, Leiden, The Netherlands (July 2013)⁶
11. Invited talk at the conference on “ High redshift galaxies with CCAT”, University of Colorado, USA (Sep 2012; by invitation only)⁷

⁶<http://www.lorentzcenter.nl/lc/web/2013/559/program.php3?wsid=559&venue=Oort>

⁷<http://www.ccatobservatory.org/index.cfm/events.details?eventID=388>

12. 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)⁸
13. Invited colloquium, Harvard University, Institute for Theory and Computation, USA (Mar 2011)
14. Invited talk at the workshop on “Pioneering into the Extragalactic Frontier with the Giant Magellan Telescope”, TAMU, USA (Mar 2011)
15. 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)
16. Invited talk at the Max Planck Institute for Extraterrestrial Physics (MPE), Germany (May 25, 2011)
17. Invited talk at the “Starbursts 2010” workshop, Granada, Spain (June 2010)
18. Invited talk at the Ringberg workshop on ”Galaxies in the Distant Universe: Dynamics, Gas, and Early Evolution”, Germany (May 2010)
19. Contributed talk at the Fourth North American ALMA Science Center Conference on ‘Assembly, Gas Content and Star Formation History’, Charlottesville, Virginia, USA (Oct 2009).
20. Invited talk at the Galaxy Evolution Workshop organized by Harvard University and Keck Foundation, USA (Feb 2009; by invitation only)
21. Invited review talk at the conference on bar dynamics along the Hubble sequence, Italy (Aug. 2008)
22. Invited talk at the International Astronomical Union (IAU) Symposium 254, ‘The Galaxy Disk in a Cosmological Context’, Copenhagen, Denmark (June 2008)
23. Invited colloquium at the Harvard University, Institute for Theory and Computation, USA (Feb. 2008)
24. Invited colloquium at the University of California at Santa Cruz, USA (Jan. 2008)
25. Invited Plenary Talk at the 211th American Astronomical Society Meeting, USA (Jan. 2008): ‘*Evolution of Disk Galaxies: New Insights and Future Challenges*’
26. 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).
27. Invited colloquium at the University of Arizona, USA (Nov. 2007)
28. Contributed talk at the conference on ‘Formation and Evolution of Galaxy Disks’, Rome, Italy (Oct. 2007)
29. Invited colloquium at the Space Telescope Science Institute, USA (May 2006)
30. Contributed talk at the conference on ‘Galaxies and Structures Through Cosmic Times’, Venice, Italy (March 2006)

⁸<http://www.mpia-hd.mpg.de/~DISKS/home.html>

31. Invited talk at the conference on ‘The Origin of the Hubble Sequence’, Vulcano, Italy (June 2005)
32. Invited talk at the conference on ‘Dynamics of Galaxies’, Las Vegas, USA (May 2005)
33. 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’*
34. 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)
35. Invited lecturer for the Lecture Series on on AGN Research organized by the European Southern Observatory, Santiago, Chile (Dec. 2003)
36. Invited talk at the MPE/MPIA Ringberg conference on ‘Center of Galaxies’, Germany (Nov. 2002)
37. Invited talk, Starburst Series, NASA Goddard Space Flight Center, USA (Sep. 2002)
38. Contributed talk at the Meudon conference on ‘Active Galactic Nuclei: from Central Engine to Host Galaxy’, France (July 2002)
39. Invited talk at the Center for Star Formation Studies, University of Santa Cruz, USA (July 2001)
40. 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.

Service at the Departmental Level

- Astronomy Department Chair overseeing vision plan, operations, and budget of a department with over 180 members. (Sep. 2015–Present)
- *Four-Year Transition Plan of Faculty Retirement and Hires*: In Fall 2015, I submitted a four-year faculty retirement and hiring transition plan for the period 2016-2021 to the Dean’s office in order to outline the expected large fraction ($\sim 30\%$) of faculty retirements, negotiate the resulting new faculty hires, and secure exceptions to CNS rules in order for us to meet our research and educational goals during the transition years. (Nov 2015–Present)
- *Centralization of Astronomy IT Services by CNS IT Services*: In order to ensure minimum disruption to our research and education mission during the centralization of Astronomy IT services by CNS IT Services (ITS), I set up a transition plan to ensure that CNS ITS understood, addressed, and planned for our complex needs, operations, and working environment before the full transition happened in Fall 2016. The plan involved regular planning meetings with CNS ITS, the formation of an an Astronomy IT Advisory Committee to gather information on the complex and specialized needs of different constituents, townhall-style meetings between CNS ITS and users, and tailored individual plans. (Oct. 2015– Present)

- *New UG Computer Lab for Our Research-Centered UG Program*: Currently leading a plan to build a new UG computer lab for our research-centered UG program and secure funding (\$270,000). Led successful proposal for the Astronomy department to receive \$50,000 from CNS to increase the number of computers in our UG computer lab from 18 to 37. (Nov. 2015–Present)
- *Dean’s Strategic Graduate Fellowship*: Led successful proposal for the Astronomy department to receive a Dean’s Strategic Graduate Fellowship (over \$40,000) for one of our entering graduate students. (Spring 2016)
- *Astronomy Program NSF REU Proposal*: PI of pending NSF REU proposal (‘REU Site: Frontier Research and Training in Astronomy for the 21st Century’; \$300,000) submitted to NSF. (Aug. 2016)
- *Open House for Texas Legislative Staff*: Co-led the organization of the Astronomy Program open house for Texas Legislative Staff and presented an overview of the education and research mission of the Astronomy department and its synergy with McDonald Observatory. (July 2016)
- *Astronomy Program Strategic Retreat*: Co-led the organization of the first strategic retreat (over the last nine years) for the Astronomy program in 2016. The retreat provided a forum for discussions on how to advance our top-ranked astronomy program and build a stronger sense of community. (June to Sep. 2016)
- *External Review of the Astronomy Department and McDonald Observatory*: Co-leading the department self-study for the external review of the the Astronomy Program scheduled every eight years. (Mar. 2016–Present)
- *Philanthropic Cultivation and Fund-Raising*: Philanthropic cultivation of our Astronomy Program Board of Visitors (218 members), Alumni groups, and other prospects. Expanded our alumni network (which included only a few hundred members in 2015) to several thousands. Help to fund-raise for our strategic priorities, including research support for graduate students and postdoctoral fellows and the Giant Magellan Telescope. (Sep. 2015– Present)
- *Mentoring and Professional Development of Postdocs and Graduate Students*: Set up initiatives for improved mentoring and professional development of postdocs and graduate students, including a new website for postdocs (featuring contacts, mentoring and professional development resources, funding and research opportunities, resources for advising undergraduates, and University resources), a network of informal mentors, and new guidelines for the Postdoc Mentoring Committee. (Nov. 2015–Aug. 2016)
- Department lead for faculty tenure and promotion case (Mar. 2016 to Sep. 2017)
- Department lead for faculty tenure and promotion case. (March 2016 to Present)
- Chair, Search Committee for the Astronomy Department Program Coordinator; (May-June 2016)
- Member, Search Committee for the McDonald Observatory and Astronomy Department Director of Development. (Mar-May. 2016)

- Member, Search Committee for the McDonald Observatory and Astronomy Department Director of Business Administration. (Feb.-Mar 2016)
- Astronomy Department Chair Designate (Jan 2015–Aug 2015)
- Astronomy Department Associate Chair (2014–Aug 2015)
- Member, Graduate Studies Executive Committee (GSEC) (2014–Present)
- Chair, Graduate Studies Executive Committee (GSEC) (2012–2014)
- Chair, Graduate Studies Council (GSC) (2012–present)
- Member, Faculty Search Committee (2011–2012)
- Member, Evaluations Committee (2011–2013)
- Chair, Extragalactic Research Group (2010-2012)
- Member, Strategic Vision Committee (Astronomy), UT Austin (2009–2010)
- Member, Graduate Admissions Committee, UT Austin (Sep. 2009–Present)
- Undergraduate Advisor, Astronomy Department, UT Austin (2005–2009)
- Member, Selection committee for Mc Donald Fellowship, UT Austin (2005)

Service at College and University Level

- Member of the Advisory Council for the newly created 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 plan for the college’s future (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) (July 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)
- 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, 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 Jogee, 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., Jogee, S., Beckwith, S. V. W., and Stiavelli, M.. (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)

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)

- I initiated and developed a new course entitled ‘AST 376: 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)*⁹, 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)

Education and Public Outreach (EPO)

1. Awarded a Graduate School Diversity Mentoring Fellowship and acting as mentor for a first-year female graduate student (2014-15)
2. 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.
3. 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
4. 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
5. 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).
6. 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>

⁹<http://www.as.utexas.edu/gcet/>

7. 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.
8. 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)*¹⁰, 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.
9. 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’.
10. 2006: Invited speaker, River Oaks Club, Houston, Texas
11. 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

PUBLICATIONS

Summary of Publication Record (as of Oct 15, 2016)

- 77 refereed publications, 6389 citations, h-index=40, g-index=80
- 181 total publications, 6568 citations
- Citation rate: 537 citations per year (from NASA ADS metric tool)
- 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
 - ARAA: 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

¹⁰<http://www.as.utexas.edu/gcet/>

- 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. 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*’
2. Papovich, C. et al. including **Jogee, S.** 2016, ApJS, 224, 28: ‘*The Spitzer-HETDEX Exploratory Large-area Survey*’
3. 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*’
4. Hoyos, C. et al. including **Jogee, S.** 2016, MNRAS, 455, 295: ‘*Linking the structural properties of galaxies and their star formation histories with STAGES*’
5. 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*’
6. Hao, L., **Jogee, S.**, Barazza, F., & Marinova, I. 2016, MNRAS, in preparation: ‘*Bars in Starbursts and AGNs – A Quantitative Reexamination*’
7. 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*’
8. 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*’

9. 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*’
10. 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*’
11. 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*’
12. 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*’
13. 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*’
14. 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*’
15. Chiang, C.-T., Wullstein, P., Jeong, D., et al. including **Jogee, S.** 2013, JCAP, 12, 30: ‘*Galaxy redshift surveys with sparse sampling*’
16. 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 $z \sim 0$* ’
17. Blanc, G. A., Weinzirl, T., Song, M., et al., including **Jogee, S.** 2013, AJ, 145, 138: ‘*The VIRUS-P Exploration of Nearby Galaxies (VENGA): Survey Design, Data Processing, and Spectral Analysis Methods*’
18. Blanc, G. A., Schrubba, A., Evans, N. J., II, **Jogee, S.** et al. 2013, ApJ, 764, 117: ‘*The VIRUS-P Exploration of Nearby Galaxies (VENGA): The X CO Gradient in NGC 628*’
19. Böhm, A., et al., including **Jogee, S.** 2013, A&A, 549, A46: ‘*AGN host galaxies at redshift $z \sim 0.7$: peculiar or not?*’
20. Marinova, I., **Jogee, S.**, Weinzirl, T. and the Coma ACS Treasury Survey team 2012, ApJ, 746, 136 ‘*The HST/ACS Coma Cluster Survey. VIII. Barred Disk Galaxies in the Core of the Coma Cluster*’
21. Hoyos, C., et al., including **Jogee, S.** 2012, MNRAS, 419, 2703: ‘*A New Automatic Method to Identify Galaxy Mergers I. Description and Application to the STAGES Survey*’
22. Simon, P., et al., including **Jogee, S.** 2012, MNRAS, 419, 998: ‘*Spatial matter density mapping of the STAGES Abell A901/2 supercluster field with 3D lensing*’
23. Maltby et al. , including **Jogee, S.** 2012, MNRAS, 419, 669: ‘*The environmental dependence of the structure of outer galactic discs in STAGES spiral galaxies*’

24. Weinzirl, T., **Jogee, S.**, Conselice C., and the GOODS NICMOS Survey collaboration 2011, ApJ, 743, 87: ‘*Insights on the Formation, Evolution, and Activity of Massive Galaxies From Ultra-Compact and Disky Galaxies at $z = 2 - 3$* ’
25. den Brok, M., et al., including **Jogee, S.** 2011, MNRAS, 414, 3052: ‘*The HST/ACS Coma Cluster Survey - VI. Colour gradients in giant and dwarf early-type galaxies*’
26. Conselice, C. J., et al., including **Jogee, S.** 2011, MNRAS, 413, 80 : ‘*The Hubble Space Telescope GOODS NICMOS Survey: Overview and the Evolution of Massive Galaxies at $1.5 < z < 3$* ’
27. Grützbauch, R. et al., including **Jogee, S.** 2011, MNRAS, 1504: ‘*The relationship between star formation rates, local density and stellar mass up to $z \approx 3$ in the GOODS NICMOS Survey*’
28. Yagi, M., et al., including **Jogee, S.** 2010, AJ, 140, 1814 : ‘*A dozen new galaxies caught in the act: Gas stripping and extended emission line regions in the Coma cluster*’
29. Hammer, D., et al., including **Jogee, S.** 2010, ApJS, 191, 143: ‘*The HST/ACS Coma Cluster Survey. II. Data Description and Source Catalogs*’
30. Hopkins, P. F., Somerville, R. S., Cox, T. J., Hernquist, L. **Jogee, S.**, Keres, D., Ma, C.-P., Robertson, B., & Stewart K. 2009, MNRAS, 397, 802: ‘*The Effects of Gas on Morphological Transformation in Mergers: Implications for Bulge and Disk Demographics*’
31. **Jogee, S.**, Miller, S., Penner, K., Skelton, R. E., Conselice, C. J., Somerville, R. S., Bell, E. F., the GEMS collaboration 2009, ApJ, 697, 1971: ‘*History of Galaxy Interactions and Their Impact on Star Formation over the Last 7 Gyr from GEMS*’
32. Weinzirl, T., **Jogee, S.**, Khochfar, S., Burkert, A., & Kormendy, J. 2009, ApJ, 696, 411: ‘*Bulge n and B/T in High Mass Galaxies: Constraints on the Origin of Bulges in Hierarchical Models*’
33. Marinova, I., **Jogee, S.**, Heiderman, I., & the STAGES collaboration 2009, ApJ, 698, 1639: ‘*Barred Galaxies in the Abell 901/2 supercluster with STAGES*’
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35. Barazza, F. D., Wolf, C., Gray, M. E., **Jogee, S.**, & the STAGES collaboration 2009, A&A, 508, 665: ‘*Relating basic properties of bright early-type dwarf galaxies to their location in Abell 901/902*’
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38. Gray, M. & the STAGES collaboration, including **Jogee, S.** 2009, MNRAS, 393, 1275: *'STAGES: the Space Telescope A901/2 Galaxy Evolution Survey'*
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40. Wolf, C. & the STAGES collaboration, including **Jogee, S.** 2009, MNRAS, 393, 1302: *'The STAGES view of red spirals and dusty red galaxies: Mass-dependent quenching of star-formation in cluster infall'*
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45. Heymans, C., Gray, M. E., Peng, C. Y., Van Waerbeke, L., Bell, E. F., Wolf, C., Bacon, D., Balogh, M., Barazza, F. D., Barden, M., Boehm, A., Caldwell, J. A. R., Häußler, B., Jahnke, K., **Jogee, S.**, van Kampen, E., Lane, K., McIntosh, D. H., Meisenheimer, K., Mellier, Y., Sanchez, S. F.; Taylor, A. N., Wisotzki, L., Zheng, X. 2008, MNRAS, 385, 1431: *'The dark matter environment of the Abell 901/902 supercluster: a weak lensing analysis of the HST STAGES survey'*
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