

Curriculum Vitae [Shardha Jogee]

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Education

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

Professional Experience

- Sep. 2004–Present: Assistant Professor, Department of Astronomy, University of Texas at Austin, U.S.A. [tenure-track]
- July 2002–Aug. 2004: Assistant Astronomer, Space Telescope Science Institute (STScI)¹, U.S.A. [tenure-track]
- Nov 1998–May 2002: Postdoctoral Scholar, Caltech, U.S.A.
- 1994–1999: Research Assistant, Department of Astronomy, Yale University, U.S.A.
- 1994–1999: Teaching Assistant, Department of Astronomy, Yale University, U.S.A.

Dissertation

- Title: ‘Molecular gas and star Formation in the inner kiloparsec of starburst and non-starburst galaxies.’
- Dissertation Advisor: Prof. Jeffrey D. P. Kenney, Yale University, USA

Research Interests and Role in International Collaborations

- Research Interests : (1) Formation and evolution of galaxies as a function of redshift and environment (field, groups, clusters); (2) Impact of Bars and Interactions on Galaxy Evolution; (3) Starbursts and Active Galactic Nuclei.

¹STScI is the science and operations center for NASA’s Hubble Space Telescope and future next generation James Webb Space Telescope

- Member of five international science collaborations (GEMS, ACS-GOODS, STAGES, Coma ACS Treasury survey, and NICMOS-GOODS), which were set up from 2004 to 2007 to explore galaxy evolution and carry out some of the largest multiwavelength surveys of galaxies to date (see description below). My research group and I are leading the science on barred galaxies in the GEMS, STAGES, Coma, and NICMOS-GOODS collaborations. We are also leading some of the papers on the history and impact of galaxy interactions in the GEMS, STAGES, and Coma collaborations.

(a) 2004/05: *Galaxy Evolution from Morphology and SEDS* (GEMS; 135 HST orbits; <http://www.mpia.de/GEMS/gems.htm>): GEMS is one of the largest contiguous fields imaged with *HST* in 2 filters, and uses HST data along with COMBO-17, Spitzer, Chandra, and GALEX data to study the evolution of $\sim 8,000$ galaxies ($R_{\text{Vega}} < 24$) over the last 8 Gyr.

(b) 2005/06: *Space Telescope Abell 901/902 Survey* (STAGES; GO-10395; 80 HST orbits): STAGES probes the physical drivers of galaxy evolution in the cluster and supercluster environment of A901/902, using HST ACS, Spitzer, GALEX, Chandra, COMBO-17, and gravitational lensing data.

(c) 2006/07: *Coma Cluster HST ACS Treasury Survey* (GO-10861; 164 HST orbits): Uses HST ACS, Spitzer, GALEX, Chandra, and ground-based data for a benchmark study of Coma, the closest rich cluster in the local Universe.

(d) 2007/08: *Deep NICMOS imaging of GOODS* (GO-11082; 180 HST orbits): Uses HST NICMOS, along with Spitzer, GALEX, Chandra, ESA's XMM-Newton, and ground-based data to explore the assembly of disks at $z \sim 3$, and their activity.

Professional Societies

- American Astronomical Society (AAS)

External Funding Awarded

Summary of grant awards over 2003 to 2008:

- Total grant award = \$1,866,329 (with \$964,748 as PI, \$901,581 as Co-I)
- Science grants = \$1,171,329 (with \$869,748 as PI, \$301,581 as Co-I)
- Education and outreach grants = \$695,000 (with \$95,000 as PI, \$600,000 as Co-I)

Itemized details follow. For grants where I am a Co-I, the amounts listed are those allocated to me at UT with sole authority, and do not include the amounts allocated to investigators at other institutions.

1. 2003: \$558,000, PI, NASA Long Term Space Astrophysics grant
Period = Initially 03/17/2003 to 03/17/2008, now extended to 1/14/2010
'Structure and dynamics of local and intermediate redshift disks'
2. 2004: \$50,189, Co-I, NASA/Space Telescope Science Institute award (GO-10428)
Period = 08/01/2005 to 07/31/2006
'Colors of QSO host galaxies at $z=2$ and the evolution of their stellar masses'

3. 2005: \$72,977, Co-I, NASA/Space Telescope Science Institute award (GO-10395)
Period = 03/01/2005 to 02/28/2007
'Environmental drivers of galaxy evolution:HST survey of A901/902 supercluster'
4. 2006: \$311,748, PI, National Science Foundation grant.
Period = 09/1/2006 to 09/1/2009
'Bars and their Impact on Galaxy Evolution over the Last Eight Billion Years'
5. 2006: \$45,000, PI, NASA Education and Public Outreach award (NNG 06GB99G)
Period = 04/1/2006 to 03/31/2008
'Building a Bridge to Texas High School Science Teachers and Students'
6. 2006: \$57,105, Co-I, NASA/Space Telescope Science Institute award (GO-10861)
Period = 08/1/2006 to 08/1/2008
'An ACS Treasury Survey of the Coma Cluster'
7. 2007: \$68,268, Co-I, NASA/Space Telescope Science Institute award (GO-11082)
Period = 10/1/2007 to 09/30/2009
'NICMOS Imaging of GOODS'
8. 2007: \$50,000, PI, NASA Education and Public Outreach award (HST-EO-10861.35)
Period = 04/1/2007 to 03/31/2009
'A Cluster of Activities on Coma from the Hubble Space Telescope, StarDate, and McDonald Observatory'
9. 2008: \$600,000, Co-PI, National Science Foundation STEM award (DUE-0807140).
The grant is divided among 5 UT investigators from the UG Research center (S. Simmons), CS (J. S. Moore), Astronomy (S. Jogee), Math (K. M. Davis), Physics (S. E. Kopp).
Period = 09/1/2008 to 08/31/2013.
'Scientists for Tomorrow'

Pending Funding

1. 2008: \$412,805, PI, National Science Foundation CAREER proposal
Period = 09/1/2009 to 08/31/2014.
'CAREER: Galaxy Evolution in a Hierarchical Universe'

Information on Publication Record

- Total no of papers in refereed journals as of 10/01/2008 = 43
- Total no of papers in conference proceedings as of 10/01/2008 = 61
- Total no of papers as Assistant Professor at UT Austin (Sep. 2004 to 10/01/2008) = 26 in refereed journals + 26 conference proceedings
- Total no of papers as postdoctoral fellow at Caltech (1999 to 2002) and as tenure-track assistant astronomer at the Space Telescope Science Institute (2002 to 2004) = 15 in refereed journals + 29 conference proceedings
- Total no of papers as graduate student at Yale University (1992 to 1998) = 2 in refereed journals + 6 conference proceedings

- **Clarification regarding papers with long author lists where I am first author or second author:** Over the period 2004 to 2008, my research group at UT Austin has included three beginning graduate students (A. Heiderman, T. Weinzirl, I. Marinova), two undergraduate Dean scholars (S. Miller and K. Penner), and postdoctoral fellow F. Barazza. Many of the papers led by my research group or me have long author lists as I am part of several large international science collaborations (GEMS, STAGES, Coma ACS Treasury survey, and NICMOS-GOODS). I provide the following explanatory notes to clarify our role in these collaborations and my role as second author.

(1) My research group and I are leading the science on barred galaxies in the GEMS, STAGES, Coma, and NICMOS-GOODS collaborations, and leading some of the papers on the history and impact of galaxy interactions in the GEMS, STAGES, and Coma collaborations.

(2) My publication record includes a number papers on bars and galaxy interactions, where I am the second author and the first author is one of the six members of my UT group. I would note that my contributions in such papers are highly substantial as none of my group members had prior expertise in any of these two areas, and in particular, these papers are the very first ones written by all five students. As outlined in my research statement, my contributions involved setting the scientific goals of the paper; developing the methodology, software, and machinery used in the bar and merger papers; working closely with group members on the analysis; and helping to write the final paper.

Publication List in Refereed Journals (43)

Letters at the end of each entry refer to the following categories: A is a leading role as group leader principal investigator, B is primary junior researcher, C is essential collaborator, D is peripheral collaborator. Numbers refer to the stage of career: 1 is as assistant professor at UT, 2 is as postdoctoral fellow at Caltech and tenure-track assistant astronomer at the Space Telescope Science Institute, and 3 is as graduate student. A ‘*’ sign designates unrefereed publications, and ‡ indicates invited chapter/articles.

1. **Jogee, S.**, Miller, S., Penner, K., Skelton, R. E., Conselice, C. J., Somerville, R. S., Bell, E. F., the GEMS collaboration, 2008, *The Astrophysical Journal*, submitted and refereed (anticipated publication date = Nov. 2008): ‘*History of Galaxy Interactions and Their Impact on Star Formation over the Last 7 Gyr from GEMS*’ [A.1]
2. Weinzirl, T., **Jogee, S.**, Khochfar, S., Burkert, A., & Kormendy, J. 2008, *The Astrophysical Journal*, submitted and refereed (arXiv:0807.0040; anticipated publication date = Nov. 2008): ‘*Bulge n and B/T in High Mass Galaxies: Constraints on the Origin of Bulges in Hierarchical Models*’ [A.1]
3. Marinova, I., **Jogee, S.**, Bacon, D. J., et al., & the STAGES collaboration, 2008, *The Astrophysical Journal*, submitted (anticipated publication date = Dec . 2008): ‘*Barred Galaxies in the Abell 901/2 supercluster with STAGES*’ [A.1]*

4. Heiderman, A., **Jogee, S.**, Bacon, D. J., et al., & the STAGES collaboration, 2008, *The Astrophysical Journal*, submitted (anticipated publication date = Dec . 2008): ‘*Interacting Galaxies in the Abell 901/902 supercluster with STAGES*’ [A.1]*
5. Barazza, F. D., Jablonca, P., Desai, V., **Jogee, S.**, Aragón-Salamanca, A., & the ESO Distant Clusters Survey (EDisCS) collaboration 2008, *The Astrophysical Journal*, submitted and refereed (anticipated publication date = Dec. 2008): ‘*Frequency and properties of bars in cluster and field galaxies at intermediate redshifts from EDisCS*’ [C.1]
6. Chris, W. et al. & the STAGES collaboration, 2008, *Monthly Notices of the Royal Astronomical Society*, submitted and refereed (anticipated publication date = Nov . 2008): ‘*The STAGES view of red spirals and dusty red galaxies: Mass-dependent quenching of star-formation in cluster infall*’ [C.1]
7. Gray, M. et al. & the STAGES collaboration, 2008, *Monthly Notices of the Royal Astronomical Society*, submitted, (anticipated publication date = Nov. 2008): ‘*STAGES; the Space Telescope A901/2 Galaxy Evolution Survey*’ [C.1]*
8. Gallazi, A. et al. & the STAGES collaboration, 2008, *The Astrophysical Journal*, accepted (anticipated publication date = Nov . 2008): ‘*Obscured star formation in intermediate-density environments: A Spitzer study of the A901/902 supercluster*’ [D.1]
9. Barazza, F. D., **Jogee, S.**, & Marinova, I. 2008, *The Astrophysical Journal*, 675, 1194: ‘*Bars in Disk-Dominated and Bulge-Dominated Galaxies at $z \approx 0$: New Insights from 3600 SDSS Galaxies*’ [A.1]
10. Caldwell, J. A. R., McIntosh, D. H., Rix, H.-W., Barden, M., Beckwith, S. V. W., Bell, E. F., Borch, A., Heymans, C., Häußler, B.; Jahnke, K.; **Jogee, S.**, Meisenheimer, K., Peng, C. Y., Snchez, S. F., Somerville, R. S., Wisotzki, L., Wolf, Christian 2008, *Apjs*, 174, 136: ‘*GEMS Survey Data and Catalog*’ [C.1]
11. Somerville, R. S., Barden, M., Rix, H.-W., Bell, E. F., Beckwith, S. V. W.; Borch, A., Caldwell, J. A. R., Häußler, B., Heymans, C., Jahnke, K., **Jogee, S.**, McIntosh, D. H., Meisenheimer, K., Peng, C. Y.; Snchez, S. F., Wisotzki, L., Wolf, C. 2008, *The Astrophysical Journal*, 672, 776: ‘*An Explanation for the Observed Weak Size Evolution of Disk Galaxies*’ [D.1]
12. Carter, D. Goudfrooij, P., Mobasher, B., Ferguson, H. C., Puzia, T. H., Aguerri, A. L., Balcells, M.; Batcheldor, D., Bridges, T. J., Davies, J. I.; Erwin, P., Graham, A. W., Guzmán, R., Hammer, D., Hornschemeier, A., Hoyos, C., Hudson, M. J., Huxor, A., **Jogee, S.**, Komiyama, Y., Lotz, J., Lucey, J. R., Marzke, R., Merritt, D., Miller, B. W., Miller, N. A., Mouhcine, M., Okamura, S., Peletier, R. F., Phillipps, S., Poggianti, B. M.; Sharples, R. M., Smith, R. J.; Trentham, N., Tully, R. B., Valentijn, E., Verdoes K. G. 2008, 2008, *The Astrophysical Journals*, 176, 424: ‘*The HST/ACS Coma Cluster Survey: I - Survey Objectives and Design*’ [C.1]
13. 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, Monthly Notices of the Royal Astronomical Society, 385, 1431: ‘*The dark matter environment of the Abell 901/902 supercluster: a weak lensing analysis of the HST STAGES survey*’ [D.1]
14. Häußler B., McIntosh, D. H., Barden, M., Bell, E. F., Rix, H-W., Borch, A., Beckwith, S. V. W., Caldwell, J. A. R., Heymans, C., Jahnke, K., **Jogee, S.**, Kuposov, S. E., Meisenheimer, K., Snchez, S. F., Somerville, R. S., Wisotzki, L., Wolf, C. 2007, Apjs, 172, 615: ‘*GEMS: Galaxy Fitting Catalogs and Testing Parametric Galaxy Fitting Codes GALFIT and GIM2D*’ [D.1]
 15. Marinova, I. & **Jogee, S.** 2007, The Astrophysical Journal, 659, 1176: ‘*Characterizing Bars at $z \sim 0$ in the optical and NIR: Implications for the Evolution of Barred Disks with Redshift*’ [A.1]
 16. Barazza, F.D., **Jogee, S.**, Rix, H.-W., Barden, M. et al, 2006, The Astrophysical Journal, 643, 162: ‘*Color, Structure, and Star Formation History of Dwarf Galaxies over the last ~ 3 Gyr with GEMS and SDSS*’ [A.1]
 17. Berentzen, I., Shlosman, I., & **Jogee, S.** 2006, The Astrophysical Journal, 637, 582: ‘*Stellar Bar Evolution in Cuspy and Flat-Cored Triaxial CDM Halos*’ [C.1]
 18. Bell, E. F., Naab, T., McIntosh, D. H., Somerville, R. S., Caldwell, J. A. R., Barden, M., Wolf, Christian, Rix, H-W, Beckwith, S. V., Borch, A., Häußler, B., Heymans, C., Jahnke, K., **Jogee, S.**, Kuposov, S., Meisenheimer, K., Peng, C. Y., Sanchez, S. F., Wisotzki, L. 2006, The Astrophysical Journal, 640, 241: ‘*Dry Mergers in GEMS: The Dynamical Evolution of Massive Early-Type Galaxies*’ [C.1]
 19. Beckwith, S. V. W., Stiavelli, M., Koekemoer, A. M., Caldwell, J. A. R., Ferguson, H. C., Hook, R., Lucas, R. A., Bergeron, L. E., Corbin, M., **Jogee, S.**, Panagia, N., Robberto, M., Royle, P., Somerville, R. S., Sosey, M. 2006, AJ, 132, 1729: ‘*The Hubble Ultra Deep Field*’ [C.1]
 20. Heymans, C., Bell, E. F., Rix, H-W., Barden, M., Borch, A., Caldwell, J. A. R., McIntosh, D. H., Meisenheimer, K., Peng, C. Y., Wolf, C., Beckwith, S. V. W., Häußler, B., Jahnke, K., **Jogee, S.**, Sanchez, S. F., Somerville, R., Wisotzki, L. 2006, Monthly Notices of the Royal Astronomical Society, 371, L60: ‘*A weak lensing estimate from GEMS of the virial to stellar mass ratio in massive galaxies to $z \sim 0.8$* ’ [D.1]
 21. **Jogee, S.**, Scoville, N., & Kenney, J. D. P. 2005, The Astrophysical Journal, 630, 837: ‘*The Central Region of Barred Galaxies: Molecular Environment, Starbursts, and Secular Evolution*’ [A.1]
 22. Wolf, C., Bell, E. F., McIntosh, D. H., Rix, H.-W., Barden, M., Beckwith, S. V. W., Borch, A., Caldwell, J. A. R., Häußler, B., Heymans, C., Jahnke, K., **Jogee, S.**, Meisenheimer, K., Peng, C. Y., Snchez, S. F., Somerville, R. S., Wisotzki, L. 2005, The Astrophysical Journal, 630, 771: ‘*GEMS: Which Galaxies Dominate the $z \sim 0.7$ Ultraviolet Luminosity Density?*’ [C.1]

23. McIntosh, D. H., Bell, E. F., Rix, H-W, Wolf, C., Heymans, C., Peng, Chien Y., Somerville, R. S., Barden, M., Beckwith, S. V. W., Borch, A., Caldwell, J. A. R., Häußler, B., Jahnke, K., **Jogee, S.**, Meisenheimer, K., Snchez, S. F., Wisotzki, L. 2005, *The Astrophysical Journal*, 632, 191: ‘*The Evolution of Early-type Red Galaxies with the GEMS Survey: Luminosity-size and Stellar Mass-size Relations Since $z=1$* ’ [D.1]
24. Grogin, N. A., Conselice, C. J., Chatzichristou, E., Alexander, D. M., Bauer, F. E., Hornschemeier, A., **Jogee, S.**, Koekemoer, A. M., et al. 2005, *The Astrophysical Journal*, 627, L97: ‘*AGN Host Galaxies at z 0.4-1.3: Bulge-dominated and Lacking Merger-AGN Connection*’ [C.1]
25. Heymans, C., Brown, M. L., Barden, M., Caldwell, J. A. R., Jahnke, K., Rix, H-W., Taylor, A., Beckwith, S.V.W., Bell, E. F., Borch, A., Häußler, B., **Jogee, S.**, McIntosh, D. H., Meisenheimer, K., Peng C. Y., Sanchez, S. F., Somerville, R. S., Wisotzki, L., & Wolf, C. 2005, *Monthly Notices of the Royal Astronomical Society*, 361, 160: ‘*Cosmological weak lensing with the HST GEMS survey*’ [D.1]
26. Barden, M., Beckwith, S.V.W., Bell, E. F., Borch, A., Caldwell, J. A. R., Häußler, B., Heymans, C., Jahnke, K., **Jogee, S.**, McIntosh, D. H., Meisenheimer, K., Peng C. Y., Rix, H-W., Sanchez, S. F., Somerville, R. S., Wisotzki, L., & Wolf, C. 2005, *The Astrophysical Journal*, 635, 959: ‘*GEMS: The Size Evolution of Disk Galaxies*’ [D.1]
27. **Jogee, S.**, Barazza, F., Rix, H-W., Shlosman, I., Barden, M., Wolf, C. W., Davies, J., Heyer, I., Beckwith, S. V. W., Bell, E. F., et. al. 2004, *The Astrophysical Journal Letters*, 615, L105: ‘*Bar Evolution Over the Last Eight Billion Years: A Constant Fraction of Strong Bars in GEMS*’ [A.1]
28. Mobasher, M., **Jogee, S.**, Dahlen, T., de Mello, D., Lucas, R. A., Conselice, C. J., Grogin, N. A., & Livio M. 2004, *The Astrophysical Journal Letters*, 600/2, 74: ‘*Structure and Evolution of Starburst and Normal Galaxies in the GOODS*’ [C.2]
29. Conselice, C. J., Grogin, N. A., **Jogee, S.**, Lucas, R. A., de Mello, D., Gardner, J. P., Mobasher, M., & Ravindranath, S. 2004, *The Astrophysical Journal Letters*, 600/2, 9: ‘*Observing the formation of the Hubble sequence in GOODS Hubble Space Telescope Images*’ [C.2]
30. Ravindranath, S., Ferguson, H. C., Conselice, C., Giavalisco, M., Dickinson, M., Chatzichristou, E., de Mello, D., Fall, M., Gardner, J. P., Grogin, N. A., Hornschemeier, A., **Jogee, S.**, Koekemoer, A., Kretchmer, C., Livio, M., Mobasher, M. & Somerville, R. 2004, *The Astrophysical Journal Letters*, 604: ‘*Evolution of Disk Galaxies in the GOODS CDF-S Field: Number densities and size distribution*’ [C.2]
31. Giavalisco et al. 2004, *The Astrophysical Journal Letters*, 600/2, 1: ‘*The Great Observatories Origins Deep Survey: The Hubble Space Telescope Observing Program*’ [D.2]

32. Rix, H.-W., Barden, M., Beckwith, S.V.W., Bell, E. F., Borch, A., Caldwell, J. A. R., Häußler, B., Jahnke, K., **Jogee, S.**, McIntosh, D. H., Meisenheimer, Peng C. Y., Sanchez, S. F., Somerville, R. S., Wisotzki, L., & Wolf, C., ApJS, 152, 163 (astro-ph/0401427): ‘*GEMS: Galaxy Evolution from Morphologies and SEDs*’ [C.2]
33. Bell, E. F., McIntosh, D. H., Wolf, C., Barden, M., Caldwell, J. A. R., Rix, H.-W., Beckwith, S. V. W., Borch, A., Jahnke, K., **Jogee, S.**, Meisenheimer, K., Peng, C. Y., Sanchez, S. F., Somerville, R. S., and Wisotzki, L. 2004, The Astrophysical Journal Letters, 600, 11: ‘*Red Sequence Galaxies at $z \approx 0.7$: Dusty or Old*’ [C.2]
34. Jahnke, K., Barden, M., Beckwith, S.V.W., Bell, E. F., Borch, A., Caldwell, J. A. R., Häußler, B., Rix, H.-W., **Jogee, S.**, McIntosh, D. H., Meisenheimer, Peng C. Y., Sanchez, S. F., Somerville, R. S., Wisotzki, L., & Wolf, C. 2004, The Astrophysical Journal, 614, 568: ‘*UV light from young stars in GEMS quasar host galaxies at $1.8 < z < 2.75$* ’ [D.2]
35. Sanchez, S. F., Barden, M., Beckwith, S.V.W., Bell, E. F., Borch, A., Caldwell, J. A. R., Häußler, B., Rix, H.-W., Jahnke, K., **Jogee, S.**, McIntosh, D. H., Meisenheimer, Peng C. Y., Somerville, R. S., Wisotzki, L., & Wolf, C. 2004, The Astrophysical Journal, 614, 586: ‘*Colors of Active Galactic Nucleus Host Galaxies at $0.5 < z < 1.1$ from the GEMS Survey*’ [D.2]
36. **Jogee, S.**, Shlosman, I., Laine, S., Englmaier, P., Scoville, N. Z., Knapen, J. H., & Wilson, C. D. 2002, The Astrophysical Journal, 575, 156: ‘*Gas Dynamics in the Barred Spiral NGC 5248: Fueling a Circumnuclear Starburst Ring of Super Star Clusters*’ [A.2]
37. **Jogee, S.**, Knapen, J. H., Laine, S., Shlosman, I., Scoville, N. Z., & Englmaier, P. 2002, The Astrophysical Journal Letters, 570, L55 (astro-ph/0201208): ‘*Discovery and Implications of a New Large-Scale Stellar Bar in NGC 5248*’ [A.2]
38. Hartman, R. C., Boettcher, M. et al., 2001, The Astrophysical Journal, 553, 683: ‘*Multi-Epoch Multiwavelength Spectra and Models for Blazar 3C 279*’ [C.2]
39. Shepherd, D. S.; **Jogee, S.**; Kulkarni, S. R.; Frail, D. A. 1999, GRB CN, 455, 1: ‘*GRB 991208 - OVRO detection.*’ [C.2]
40. **Jogee, S.**, Kenney, J. D. P., & Smith, B. J. 1999, The Astrophysical Journal, 526, 665 (astro-ph/9907085): ‘*A nuclear bar feeding molecular gas into a powerful central starburst in NGC 2782*’ [A.2]
41. Smith, B. J., Curtis, S., Kenney, J. D. P., & **Jogee, S.** 1999, AJ, 117, 1237: ‘*The Molecule-Rich tail of the peculiar galaxy NGC 2782 (Arp 215)*’ (astro-ph/9811239): [C.2]
42. **Jogee, S.**, Kenney, J. D. P., & Smith, B. J. 1998, The Astrophysical Journal Letters, 494, L185: ‘*The remarkable starburst-driven outflow in NGC 2782*’ [B.3]
43. Bailyn, C. D., Orosz, J. A., Girard, T. M., **Jogee, S.** et al. 1995, Nature, Vol. 374. p 701: ‘*The optical counterpart of the superluminal source GRO J1655-40*’ [B.3]

Invited Chapter in Books

1. Invited chapter in ‘Physics of Active Galactic Nuclei at all Scales’, 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 in the field of AGN research: ‘*Fueling and Evolution of AGN: Internal and External Triggers*’ [A.1]‡

Publication List in Conference Proceedings (61)

1. **Jogee, S.** 2008, Proceedings of IAU Symposium 254 ‘The Galaxy Disk in a Cosmological Context’, Copenhagen, Denmark (June 2008, invited contribution): ‘*Galaxy Interactions, Star Formation History, and Bulgeless Galaxies*’ [A.1]*‡
2. Hemenway, M. K., **Jogee, S.**, Fricke, K., Worhatch, R., & Ruberg, L. 2008, Astronomical Society of the Pacific Conference Series, 389, 83 [C.1]*
3. **Jogee, S.** 2007, Workshop on ‘Galaxy and Black Hole Evolution: Towards a Unified View’, University of Arizona TAP (*talks by invitation only*): ‘*Fueling the Black Hole: Internal and External Triggers*’ [A.1]*‡
4. **Jogee, S.**, Miller, S., Penner, K.; Bell, E. F., Zheng, X. Z, Papovich, C., Conselice, C., Skelton, R. E., Somerville, R. S., Rix, H. W., Robaina, A. R., Barazza, F. D., Barden, M., Borch, A., Beckwith, S. V. W., Caldwell, J. A. R., Haeussler, B., Heymans, C., Jahnke, K., McIntosh, D. H., Meisenheimer, K., Peng, C. Y., Robaina, A. R., Sanchez, S. F., Wisotzki, L., Wolf, C. 2008, in Formation and Evolution of Galaxy Disks, ed. J. G. Funes, S. J., & E. M. Corsini (San Francisco: ASP), in press (arXiv:0802.3901): ‘*Frequency and Impact of Galaxy Mergers and Interactions over the last 7 Gyr*’ [A.1]*
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11. **Jogee, S.**, Miller, S., Penner, K.; Bell, E. F., Zheng, X. Z, Papovich, C., Conselice, C., Skelton, R. E., Somerville, R. S., Rix, H. W., Robaina, A. R., Barazza, F. D., Barden, M., Borch, A., Beckwith, S. V. W., Caldwell, J. A. R., Haeussler, B., Heymans, C., Jahnke, K., McIntosh, D. H., Meisenheimer, K., Peng, C. Y., Robaina, A. R., Sanchez, S. F., Wisotzki, L., Wolf, C. 2007, BAAS, 211, #126.06: *'Star Formation in Interacting and Normal Galaxies over the last 7 Gigayears'* [A.1]*
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14. Marinova, I., **Jogee, S.**, Bacon, D., Balogh, M., Barden, M., Barazza, F. D., Bell, E. F., Boehm, A., Caldwell, J. A. R., Gray, M. E., Häußler, B., Heymans, C., Jahnke, K., van Kampen, E., Koposov, S., Lane, K., McIntosh, D. H., Meisenheimer, K., Peng, C. Y., Rix, H. W., Sanchez, S. F., Taylor, A., Wisotzki, L., Wolf, C., Zheng,

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15. Weinzirl, T., **Jogee, S.**, & Barazza, F. 2007, BAAS, 211, #97.09: ‘*Constraining Galaxy Evolution With Bulge+Disk+Bar Decomposition*’ [A.1]*
16. Miller, S., **Jogee, S.**, Penner, K., Conselice, C., Bell, E. F., Zheng, X. Z., Papovich, C., Skelton, R. E., Somerville, R. S., Robaina, A. R., Rix, H. W., Barazza, F. D., Barden, M., Borch, A., Caldwell, J. A. R., Haeussler, B., Heymans, C., Jahnke, K., McIntosh, D. H., Meisenheimer, K., Peng, C. Y., Sanchez, S. F., Wisotzki, L., Wolf, C. 2007, AAS Meeting Abstracts, 211, #52.05: ‘*Characterizing Interacting Galaxies out to z 0.8 Using CAS and Visual Classification*’ [A.1]*
17. Barazza, F. D., **Jogee, S.**, & Marinova, I. 2007, IAU Symposium, 235, 76: ‘*Constraints on Bars in the Local Universe from 5000 SDSS Galaxies*’ [A.1]*
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25. **Jogee, S.**, Barazza, F., Rix, H.-W., Davies, J., Heyer, I., Barden, M., Beckwith, S. V. W., Bell, E. F., et al. 2004, in Penetrating Bars through Masks of Cosmic Dust: The Hubble Tuning Fork Strikes a New Note, eds. D. Block, K. Freeman, R. Groess, I. Puerari, & E.K. Block (Dordrecht: Kluwer), p. 291: *‘Evolution and Impact of Bars over the Last Nine Gyr: Early Results from GEMS’* [A.1]*‡
26. **Jogee, S.**, GEMS Collaboration, & GOODS Team 2004, BAAS, 65.03: *‘Evolution and Impact of Large-Scale Bars in the last 10 Gyr’* [A.2]*‡
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46. Ravindranath, S., Conselice, C., Chatzichristou, E., de Mello, D., Ferguson, H. C., Gardner, J. P., Giavalisco, M., Grogin, N. A., Hornschemeier, A., **Jogee, S.** et al. 2003, BAAS, 201, #06.11: '*Evolution of Structural Parameters of Galaxies in the GOODS-South field*' [D.2]*
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48. **Jogee, S.** 2001, IAU Symposium, Vol. 205, Galaxies and Their Constituents at the Highest Angular Resolution, eds. R. T. Schilizzi, S. Vogel, F. Paresce, & M. Elvis (San Francisco: ASP), 228: '*Molecular ISM and Star Formation Efficiency in the Central Kpc*' [A.2]*
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51. **Jogee, S.** Baker, A. J., Sakamoto, K., & Scoville N. Z. 2001, BAAS, 198, #74.04: '*Molecular Gas in Active and Quiescent Galactic Nuclei*' [A.2]*
52. **Jogee, S.** 2001, to appear in Proceeding of the July 2001 Center for Star Formation Studies Workshop, Santa Cruz, ed. D. Hollenbach: '*Circumnuclear Gas Transport and Star Formation Triggers*' [A.2]*‡

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56. Jogee, S., Kenney, J. D. P., & Smith, B. J. 1999, in Proceedings of IAU Symposium 186, Galaxy Interactions at Low and High Redshift, ed. D. Sanders, & J. Barnes (Dordrecht: Kluwer Academic Publishers), 357: ‘*The Interplay between the Nuclear Bars, Central Starburst, and Remarkable Outflow in NGC 2782*’ [B.3]*
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58. Jogee, S. 1997, BAAS, 191, #89.01: ‘*Molecular Gas and Starbursts in the Circumnuclear Region of Spirals*’ [B.3]*
59. Kenney, J., & Jogee, S. 1997, in Proceedings of the 7th Annual Maryland Astrophysics Conference: Star Formation Near and Far, eds. S. Holt & L. Mundy, p 247: ‘*Dynamical Influences on Star Formation in Spiral Galaxies*’ [B.3]*
60. Jogee, S., & Kenney, J. D. P. 1996, in Proceedings of IAU Colloquium 157, Barred Galaxies, ed. R. Buta, D. A. Crocker, & B. G. Elmegreen (San Francisco: ASP), ASP Conference Series 91, 230: ‘*CO kinematics, star formation, and dynamical evolution of the lensed starburst NGC 4102*’ [B.3]*
61. Bailyn, C. D., Jogee, S., Orosz, J. A., & Hjellming, R. M. 1994, IAU Circ., 6060, 1 ed. Green, D. W. E: ‘*X-Ray Nova in Scorpius*’ [B.3]*

Technical Reports (3)

1. Koekomoer, A., Jogee, S., Beckwith, S. V. W., and Stiavelli, M. 2003: ‘*Radio and Sub-mm Considerations for the ACS Ultra Deep Field*’ [C.2]*
2. Jogee, S., Ferguson, H., Stiavelli, M., Panagia, N., and Riess, A., 2002: ‘*Planning of the ACS Ultra Deep Field*’ [A.2]*
3. Jogee, S. 2003: ‘*A primer for ACS instrument reviews of Phase II proposals*’ [A.2]*

Awards and Honors

- Invited Plenary Lecture, American Astronomical Society, 2008
- McDonald Observatory Postdoctoral Fellowship, 1999 (declined)
- Columbus Postdoctoral Fellowship, 1999 (declined)
- American Association of University Women Educational Fellowship, 1996
- Amelia Earhart Fellowship, Zonta International, 1996
- Yale University J. F. Enders Fellowship, Yale University, 1995
- Sigma Xi Grants-in-Aid of Research, Sigma Xi Society, 1995
- Yale University J. F. Enders Research Grant, Yale University, 1995
- Garfinkel Prize, Yale University, 1992
- Academic scholarship in Physics, Cambridge University, England, 1989-1992
- Elected to status of Fellow, Cambridge University, England, 1990-1992

Postdocs Supervised

- 2004-2007: Postdoctoral Fellow Dr. Fabio Barazza, UT Austin (Dr. Barazza was hired at UT and funded under my NASA and NSF grants. He is now at EFPL in Switzerland, working in the European Southern Observatory Distant Cluster Survey or EDisCS collaboration.)
- 2004-2007: Postdoctoral Fellow Dr Ingo Berentzen, University of Kentucky (Dr. Berentzen was hired and funded jointly under my NASA grant and others grants of Prof. Shlosman. He is now at the Center for Astronomy in Heidelberg, Germany.)
- 2007–Present: Postdoctoral Fellow Dr. Lei Hao, UT Austin (Dr. Hao was hired under HETDEX grants. I am the main faculty supervisor on a science project with her and the second author on the resulting science papers.)

Graduate Students and Masters Research Assistants Supervised

- 2005–Present: Graduate Student Irina Marinova, UT Austin
- 2006–Present: Graduate Student Amanda Heiderman, UT Austin
- 2006–Present: Graduate Student Tim Weinzirl, UT Austin
- 2004–2006: Masters Level Data and Research Analyst, James Davies, STScI
- 2003–2005: Masters Level Data and Research Analyst, Inge Heyer, STScI
- 2001–2002: Graduate Student Naveen Reddy, Caltech

Undergraduate Students Supervised

- 2005–2008: Undergraduate Dean’s Scholar Kyle Penner, UT Austin (accepted in the graduate program at the University of Arizona in 2008)
- 2006–2008: Undergraduate Dean’s Scholar Sarah Miller, UT Austin (awarded a Rhodes Scholarship in 2008 and will join the graduate program at Oxford)
- 2005–2006: Undergraduate Kyle Lake, UT Austin
- 2005–2006: Undergraduate Steven Roloff, UT Austin
- 2005–2006: Undergraduate Liz Aiello, UT Austin

Teaching and Educational Activities

- Invited chapter in ‘*Physics of Active Galactic Nuclei at all Scales*’, 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 in the field of AGN research.
- 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 allow undergraduate students to actively engage in exploring the evolution of galaxies over a large fraction of the age of the Universe. (<http://www.as.utexas.edu/gcet/>)
- Initiated and developed a new course entitled ‘Practical Introduction to Research in Astronomy and Astrophysics’ for 2009, to better prepare undergraduates for research and support the CNS Undergraduate Research Initiative.
- 2009, Fall: AST 104/49535, Undergraduate Astronomy Seminar
- 2008, Spr.: AST 358/49520, Galaxies and the Universe (Undergrad. science major)
- 2007, Spr.: AST31c/49030, Gravitational Dynamics (Graduate, science major)
- 2007, Spr.: AST 386s/49060, Extragalactic Seminar (Graduate, science major)
- 2006, Fall: AST 301/50405, Intro to Astronomy (Undergrad., non-science major)
- 2006, Fall: AST 386s/50585, Extragalactic Seminar (Graduate, science major)
- 2006, Spr.: AST 358/48195, Galaxies and the Universe (Undergrad. science major)
- 2006, Spr.: AST 386s/48260, Extragalactic Seminar (Graduate, science major)
- 2005, Fall: AST 301/48310, Intro to Astronomy (Undergrad., non-science major)
- 2005, Spr.: AST 386s/46875, Extragalactic Seminar (Graduate, science major)
- 2005: Lecturer for Honors colloquium, UT Austin
- 2003: Invited lecturer on AGN Research, European Southern Observatory
- 2001: Guest lecturer for ‘Gas Dynamics & ISM’ Graduate course, Caltech
- 1999–2002: Training of new OVR0 observers for mm interferometry, Caltech

Departmental and College/University Service

- 2008–Present: Member and UT representative of the Giant Magellan Telescope (GMT) science working group
- 2008: Member of working group for SACS accreditation of the UG program
- 2008: Organizer and Chair of the Scientific Organizing Committee for an international meeting at UT, entitled ‘Galaxy Evolution: Emerging Insights and New Challenges’. This meeting is designed to bring the top scientists worldwide working on galaxy evolution to UT Austin in Nov. 2008: (<http://www.as.utexas.edu/utgal08/>)
- 2005–2007: Member of the CCAT 25-m telescope UT science working group
- 2005–Present: Undergraduate Advisor, Astronomy Department, UT Austin

- 2006–Present: Member of Dean’s Scholars Steering Committee, UT Austin
- 2005–2006: CNS Course and Curriculum representative, UT Austin
- 2005: Member of selection committee for the Mc Donald Fellowship, UT Austin

Community Education and Public Outreach

- 2006–2008: As PI, I led the Education and Public Outreach (EPO) program for the international ACS Treasury Survey of the Coma cluster in the USA. Worked with the McDonald EPO office to produce 5 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 Universo Teacher’s Guide and class activities related to the ACS Treasury Survey of Coma Cluster. A Viewspace movie has been developed and is being shown in national museums across the country, starting Sep. 2008.
- 2006–2008: Developed EPO program sponsored by NASA and NSF, in collaboration with the McDonald EPO office, entitled ‘*Building a Bridge to Texas High School Science Teachers and Students*’.
- 2006–2008: 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)*, an online tool to allow undergraduate students to actively engage in exploring the evolution of galaxies over a large fraction of the age of the Universe (<http://www.as.utexas.edu/gcet/>). Google Sky has initiated discussions to feature GCET activities on their site.
- 2008: National Geographic, Jan 2008, media coverage: ‘*Hidden Black Holes, Swinging Young Universe Exposed*’
- 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*’.
- 2006: Invited speaker, River Oaks Club, Houston, Texas
- 2004: Invited Speaker, Mc Donald Observatory, Board of Visitor’s Meeting
- 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
- 2003: Space Telescope Science Institute Press Release: ‘*The Secret Lives of Galaxies Unveiled in Deep Survey*’
- 2002: Space Telescope Science Institute Popular Talks sponsored by the Science Division: ‘*The Violent Nature of Galaxies*’

Lectures, Colloquia, and Invited Talks

- 2008: Invited colloquium, National Research Council of Canada, Herzberg Institute of Astrophysics, Canada
- 2008: Invited colloquium, University of British Columbia, Canada
- 2008: Invited review talk, Conference on Bar Pattern Speeds, Italy
- 2008: Invited talk, International Astronomical Union Symposium 254, Denmark
- 2008: Invited colloquium, Harvard University, Inst. for Theory and Computation
- 2008: Invited colloquium, University of California at Santa Cruz
- 2008: Invited Plenary Talk, 211th American Astronomical Society Meeting
- 2007: Invited talk, workshop on ‘Galaxy and Black Hole Evolution: Towards a Unified View’, University of Arizona (talks by invitation only)
- 2007: Invited colloquium, University of Arizona
- 2007: Selected talk, Conference on ‘Formation and Evolution of Galaxy Disks’, Italy
- 2006: Invited colloquium, Space Telescope Science Institute
- 2006: Selected talk, Conference on ‘Galaxies and Structures Through Cosmic Times’, Italy
- 2005: Invited talk, Conference on ‘The Origin of the Hubble Sequence’, Italy
- 2005: Invited talk, Conference on ‘Dynamics of Galaxies’, Las Vegas
- 2004: Invited review talk, AAS Session 65, Galaxy Structure
- 2004: Selected talk, Conference on ‘Penetrating Bars through Masks of Cosmic Dust: The Hubble Tuning Fork Strikes a New Note’, South Africa.
- 2003: Invited lecturer on AGN Research. European Southern Observatory
- 2002: Invited talk, Conference on ‘Center of Galaxies’, Ringberg, Germany
- 2002: Invited talk, NASA Goddard Space Flight Center, Starburst Series
- 2002: Selected talk, Conference on ‘Active Galactic Nuclei’, France
- 2001: Invited talk, Center for Star Formation Studies, University of Santa Cruz
- 2001–2007: Miscellaneous Colloquia/Seminars/Team Workshops: University of Florida; Leiden Observatory; University of Massachusetts; NASA Goddard Space Flight Center (GSFC); Space Telescope Science Institute (STScI); California Institute of Technology (Caltech); Max Planck Institute for Astronomy (MPA) in Heidelberg, Germany; University of Nottingham, England.

Professional National and International Public Service

- 2008–Present: UT Member the Giant Magellan Telescope science working group
- 2007–Present: Member of ALMA North American Science Advisory Committee.
- 2008–Present: Member of Scientific Organizing Committee for the 3rd North American ALMA Science Center Meeting

- 2008: Chair of the Scientific Organizing Committee for the conference entitled ‘Galaxy Evolution: Emerging Insights and New Challenges’, to be held at UT Austin in Nov. 2008 (<http://www.as.utexas.edu/utgal08/>)
- 2008: Member of the Scientific Organizing Committee for the conference on galaxy dynamics along the Hubble sequence, held in Italy in Aug. 2008 (<http://www.astro.unipd.it/omega08/>)
- 2007-2008: Invited to review grant proposals for NSF and NASA (declined due to date conflicts)
- 2006: Member of NASA’s Hubble Space Telescope Cycle 15 Time Allocation Panel
- 2005–2007: Member of the CCAT 25-m telescope UT science working group
- 2004: Member of the home planning team for the Hubble ACS Ultra Deep Field, the deepest Hubble Space Telescope optical imaging survey to date.
- 2003: Member of the Scientific Organizing Committee for the STScI Symposium.
- 2000–Present: Referee for articles in *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *Astronomy & Astrophysics*
- 1999–2002: Member of the OVRO Time Allocation Committee, Caltech
- 1999–2000: Organizer of the Astronomy Department Science Talks, Caltech