

Cumulative Bio-Bibliography
University of California, Santa Cruz
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Puragra Guhathakurta

Astronomer/Professor

University of California Observatories/University of California, Santa Cruz

ACADEMIC HISTORY

- 1980–1983 B.Sc. in Physics (Honours), Chemistry, and Mathematics, St. Xavier’s College,
University of Calcutta
1984–1985 M.Sc. in Physics, University of Calcutta Science College; transferred to Princeton
University after first year of two-year program
1985–1987 M.A. in Astrophysical Sciences, Princeton University
1987–1989 Ph.D. in Astrophysical Sciences, Princeton University (October)

POSITIONS HELD

- 1989–1992 Member, Institute for Advanced Study, School of Natural Sciences
1992–1994 Hubble Fellow, Astrophysical Sciences, Princeton University
1994 Assistant Astronomer, Space Telescope Science Institute (UPD)
1994–1998 Assistant Astronomer/Assistant Professor, UCO/Lick Observatory, University of
California, Santa Cruz
1998–2002 Associate Astronomer/Associate Professor, UCO/Lick Observatory, University of
California, Santa Cruz
2002–2003 Herzberg Fellow, Herzberg Institute of Astrophysics, National Research Council of
Canada, Victoria, BC, Canada
2002– Astronomer/Professor, UCO/Lick Observatory, University of California, Santa
Cruz
2009– Director, Science Internship Program, University of California, Santa Cruz
2012– Adjunct Faculty, Science Department, Castilleja School, Palo Alto, CA
2015 Visiting Faculty, Google Headquarters, Mountain View, CA
2015– Founder, Global SPHERE (STEM Programs for High-schoolers Engaging in
Research Early) Network

HONORS AND AWARDS

- 1985 National Talent Search Scholarship (annual all-India award)
1986 Thaw Prize in Astrophysics, Princeton University
1992–1994 Hubble Fellowship, Princeton University, Astrophysical Sciences
1997–2001 Alfred P. Sloan Research Fellowship, University of California, Santa Cruz
2002–2003 National Research Council of Canada’s 2001 Herzberg Memorial Prize and
Fellowship

RESEARCH SUPPORT

2016–2019	NASA/Space Telescope Science Institute “Massive Star Clusters and the Origin of Ultra-Diffuse Galaxies”	\$142,125
2016–2019	NASA/Space Telescope Science Institute “A Legacy Imaging Survey of M33”	\$40,612
2016–2019	NASA/Space Telescope Science Institute “Proper Motions of Two Local Prototype Dwarf Elliptical Galaxies NGC 147 and NGC 185”	\$15,001
2016–2019	NASA/Space Telescope Science Institute “Milky Way Cosmology: Laying the Foundation for Full 6-D Dynamical Mapping of the Nearby Universe”	\$20,112
2016–2019	National Science Foundation “HALO7D: The Chemical and Kinematic Dimensions of Milky Way Halo Assembly,” co-investigator with PI Rockosi	\$367,747
2015–2018	NASA/Space Telescope Science Institute “The Coma Cluster Core Project”	\$19,513
2015–2018	NASA/Space Telescope Science Institute “The Evolution of Metal-rich Asymptotic Giant Branch Stars”	\$3,141
2015–2018	NASA/Space Telescope Science Institute “Project AMIGA: Mapping the Circumgalactic Medium of Andromeda”	\$10,051
2015–2018	NASA/Space Telescope Science Institute “Resolved Halo Substructures Beyond the Local Group: The Assembly Histories of NGC 253 and NGC 5128”	\$14,704
2015–2019	NASA/Space Telescope Science Institute “The Nature of Compact Stellar Systems in Massive Galaxy Clusters Using the Hubble Frontier Fields”	\$128,829
2015	Visiting Faculty Salary from Google “Expansion and Diversification of the University of California Santa Cruz Science Internship Program”	\$122,115
2014–2017	National Science Foundation “Collaborative Research: Age-Dating M31’s Halo and Satellites – Testing the Lambda CDM Paradigm”	\$217,627

2014–2017	National Science Foundation “Collaborative Research: An Archaeological Survey for Substructure in the Stellar Halos of the Nearest Massive Galaxies”	\$65,104
2013–2016	NASA/Space Telescope Science Institute “Proper Motions of Distant Halo Stars: New Clues to Milky Way Structure, Evolution and Mass”	\$58,875
2012–2015	NASA/Space Telescope Science Institute “The Masses of Supernova Remnant Progenitors”	\$14,995
2011–2015	NASA/Space Telescope Science Institute “The Formation History of the Ultra-Faint Dwarf Galaxies”	\$46,188
2010–2017	NASA/Space Telescope Science Institute “A Panchromatic Hubble Andromeda and Triangulum Survey”	\$241,618
2010–2016	National Science Foundation “Collaborative Research: M31 Satellites Past and Present”	\$316,152
2009–2014	National Science Foundation “On the Origin of Abundance Inhomogeneities,” co-investigator with PI Smith	\$328,609
2008–2016	National Science Foundation “The DEEP3 Survey—Three Fundamental Tests of Galaxy Evolution,” one of three co-investigators with PI Faber	\$1,701,777
2008–2010	NASA/Space Telescope Science Institute “Direct Age Determination of the Local Group dE Galaxies NGC 147 and NGC 185”	\$25,717
2008–2010	NASA/Space Telescope Science Institute “The First Proper Motion Measurement for M31: Dynamics and Mass of the Local Group”	\$7,500
2008–2009	Institute for Geophysics and Planetary Physics—LLNL “Local Group Dwarf Galaxies and Hierarchical Galaxy Formation”	\$41,500
2006–2009	National Science Foundation “Collaborative Research: The Assembly History of the Andromeda Spiral Galaxy”	\$314,758
2006–2008	NASA/Space Telescope Science Institute “Direct Age Determination of the dE Galaxies NGC 147 and NGC 185”	\$50,000

2006–2008	NASA/Space Telescope Science Institute “The Formation History of Andromeda’s Extended Metal-Poor Halo”	\$75,010
2005–2008	National Science Foundation “Collaborative Research: The DEEP Survey—Emergence of the Modern Universe,” one of three co-investigators with PI Faber	\$1,305,439
2004–2006	NASA/Space Telescope Science Institute “The Evolution and Assembly of Galactic Disks: Integrated Studies of Mass, Stars and Gas in the Extended Groth Strip”	\$138,590
2004–2006	NASA/Space Telescope Science Institute “The Formation History of Andromeda”	\$72,528
2003–2006	National Science Foundation “Collaborative Research: Structure and Evolution of M31’s Stellar Halo from a Large-Scale Spectroscopic Survey”	\$116,598
2003–2004	University of California, Santa Cruz, Special Research Grant “The Stellar Halo of the Andromeda Spiral Galaxy”	\$9,000
2003–2004	Institute of Geophysics and Planetary Physics—LLNL “Dark Matter Content and Internal Dynamics of M31’s Dwarf Spheroidal Satellites”	\$32,224
2002–2003	Herzberg Memorial Prize (CAN \$25,000) and Fellowship (CAN \$150,000), National Research Council of Canada “M31 Stellar Populations, 47 Tucanae, and Galactic Cirrus”	\$127,522
2001–2002	Institute of Geophysics and Planetary Physics—LLNL “The Stellar Counterpart of Compact High Velocity Clouds,” PI/Faculty Advisor with L. Pittroff	\$19,540
2001–2002	NASA/Space Telescope Science Institute “A Snapshot Survey of Probable Nearby Galaxies”	\$10,613
2000–2005	National Science Foundation “Collaborative Research: The DEEP Survey of the Distant Universe,” one of three co-investigators with PI Faber	\$1,282,902
2000–2001	Institute of Geophysics and Planetary Physics—LLNL “Searching for Quasars in the MACHO Database,” PI/Faculty Advisor with M. Geha	\$19,348
1999–2002	NASA/Astrophysics Data Program “The Properties of Interstellar Dust Grains in IRAS Cirrus Clouds”	\$159,572

1999–2002	NASA/Space Telescope Science Institute “Taking the Measure of Planets in the Globular Cluster 47 Tucanae”	\$104,777
1999–2001	NASA/Space Telescope Science Institute “A Snapshot Survey of Probable Nearby Galaxies”	\$17,000
1999–2001	NASA/Space Telescope Science Institute “Nuclear Kinematics of the Dense Globular Cluster M15”	\$11,500
1997–2001	Alfred P. Sloan Research Foundation “Galaxy Evolution and the Centers of Dense Globular Clusters”	\$35,000
1997–2000	NASA/Graduate Student Research Program “Multiwavelength Study of the Evolution of Clusters and their Constituent Galaxies,” PI/Faculty Advisor with A. Shambrook	\$66,000
1997–1998	NASA/Space Telescope Science Institute “Probing the Fine-Scale Structure and Colors of Interstellar ‘Cirrus’ Clouds”	\$55,144
1997–1998	California Space Institute “The Structure and Dynamics of Distant Disk Galaxies”	\$20,356
1996–1998	NASA/Space Telescope Science Institute “Measuring Luminosity Evolution in $z = 0.3$ Field Galaxies from Internal Kinematics”	\$23,117
1996–1997	University of California, Santa Cruz, Faculty Research “The Structure and Evolution of Spiral Galaxies”	\$2,500
1995–2000	NASA/Long-Term Space Astrophysics “The Properties of Interstellar Dust Grains in ‘Cirrus’ Clouds”	\$272,400
1995–1996	California Space Institute “The Amount and Distribution of Dark Matter in Rich Galaxy Clusters at Moderate Redshifts”	\$29,739
1995–1996	University of California, Santa Cruz, Faculty Research “The Properties of Interstellar Dust Grains in ‘Cirrus’ Clouds”	\$2,000
1995–1996	University of California, Santa Cruz, Divisional Dean’s Seed Fund “The Near Infrared Tully-Fisher Relation of Field Galaxies at $z = 0.3$ ”	\$9,000
1994–1995	University of California, Santa Cruz, Faculty Research “The Mass-Luminosity Relation for Galaxies at $z = 0.3$: A Test of Galaxy Evolution”	\$2,000

BOOKS

1. *Discoveries and Research Prospects from 6- to 10-Meter-Class Telescopes II. Proc. SPIE 4834*, ed. P. Guhathakurta (Bellingham, WA: Society of Photo-optical Instrumentation Engineers), 2003.

ARTICLES IN REFEREED PROFESSIONAL JOURNALS

1. Interstellar Dust in Shapley-Ames Elliptical Galaxies. M. Jura, D.-W. Kim, G.R. Knapp, and P. Guhathakurta. *ApJL*, **312**, L11–L15, 1987.
2. A VLA HI Survey of Virgo Cluster Spirals: II. Rotation Curves. P. Guhathakurta, J.H. van Gorkom, C.G. Kotanyi, and C. Balkowski. *AJ*, **96**, 851–866, 1988.
3. HI Observations of the Elliptical Galaxies NGC 2974 and NGC 5018. D.-W. Kim, P. Guhathakurta, J.H. van Gorkom, M. Jura, and G.R. Knapp. *ApJ*, **330**, 684–694, 1988.
4. IRAS Flux Densities for Early-Type Galaxies. G.R. Knapp, P. Guhathakurta, D.-W. Kim, and M. Jura. *ApJS*, **70**, 329–387, 1989.
5. Temperature Fluctuations in Interstellar Grains: I. Computational Method and Evaporation of Small Grains. P. Guhathakurta and B.T. Draine. *ApJ*, **345**, 230–244, 1989.
6. Optical Characteristics of Galactic 100 μ m Cirrus. P. Guhathakurta and J.A. Tyson. *ApJ*, **346**, 773–793, 1989.
7. What the Longest Exposures from the *Hubble Space Telescope* Will Reveal. J.N. Bahcall, P. Guhathakurta, and D.P. Schneider. *Science*, **248**, 178–183, 1990.
8. A Redshift Limit for the Faint Blue Galaxy Population from Deep *U* Band Imaging. P. Guhathakurta, J.A. Tyson, and S.R. Majewski. *ApJL*, **357**, L9–L12, 1990.
9. On the Population of HI Dwarf Galaxies. D.H. Weinberg, A. Szomoru, P. Guhathakurta, and J.H. van Gorkom. *ApJL*, **372**, L13–L16, 1991.
10. The Clustering of Faint Galaxies. G. Efstathiou, G. Bernstein, N. Katz, J.A. Tyson, and P. Guhathakurta. *ApJL*, **380**, L47–L50, 1991.
11. Evidence for Dwarf Stars at $D \sim 100$ kpc Near the Sextans Dwarf Spheroidal Galaxy. A. Gould, P. Guhathakurta, D. Richstone, and C. Flynn. *ApJ*, **388**, 345–353, 1992.
12. Constraints on Baryonic Dark Matter in the Galactic Halo and Local Group. D. Richstone, A. Gould, P. Guhathakurta, and C. Flynn. *ApJ*, **388**, 354–361, 1992.

13. Globular Cluster Photometry with the *Hubble Space Telescope*. I. Description of the Method and Analysis of the Core of 47 Tucanae. P. Guhathakurta, B. Yanny, D.P. Schneider, and J.N. Bahcall. *AJ*, **104**, 1790–1817, 1992.
14. Photometric Calibration of NGS/POSS and ESO/SRC Plates Using the NOAO PDS Measuring Engine. II. Surface Photometry. R.M. Cutri, F.J. Low, and P. Guhathakurta. *PASP*, **105**, 106–113, 1993.
15. The Near-Infrared Tully-Fisher Relation: A Preliminary Study of the Coma and Abell 400 Clusters. P. Guhathakurta, G. Bernstein, S. Raychaudhury, M. Haynes, R. Giovanelli, T. Herter, and N. Vogt. *PASP*, **105**, 1022–1027, 1993.
16. The 1990 Calán/Tololo Supernova Search. M. Hamuy, J. Maza, M.M. Phillips, N.B. Suntzeff, M. Wischnjewsky, R.C. Smith, R. Antezana, L.A. Wells, L.E. Gonzales, P. Gigoux, M. Navarrete, F. Barrientos, R. Lamontagne, M. DellaValle, J.E. Elias, A.C. Phillips, S.C. Odewahn, J.A. Baldwin, A.R. Walker, T. Williams, C.R. Sturch, F.K. Baganoff, B.C. Chaboyer, R.A. Schommer, H. Tirado, M. Hernandez, P. Ugarte, P. Guhathakurta, S.B. Howell, P. Szkody, P.C. Schmidtke, and J. Roth. *AJ*, **106**, 2392–2407, 1993.
17. Cold, Warm, and Hot Gas in the Late-Stage Merger NGC 7252. J.E. Hibbard, P. Guhathakurta, J.H. van Gorkom, and F. Schweizer. *AJ*, **107**, 67–89, 1994.
18. Globular Cluster Photometry with the *Hubble Space Telescope*. II. *U*, *V*, and *I* Measurements of M15. B. Yanny, P. Guhathakurta, J.N. Bahcall, and D.P. Schneider. *AJ*, **107**, 1745–1763, 1994.
19. Tests of the Tully-Fisher Relation. I. Scatter in Infrared Magnitude versus 21 cm Width. G. Bernstein, P. Guhathakurta, S. Raychaudhury, R. Giovanelli, M.P. Haynes, T. Herter, and N. Vogt. *AJ*, **107**, 1962–1976, 1994.
20. The Properties of an HI-Selected Galaxy Sample. A. Szomoru, P. Guhathakurta, J.H. van Gorkom, J.H. Knapen, D.H. Weinberg, and A.S. Fruchter. *AJ*, **108**, 491–506, 1994.
21. Detection of Lens Candidates for the Double Quasar Q2345 + 007. P. Fischer, J.A. Tyson, G. Bernstein, and P. Guhathakurta. *ApJL*, **431**, L71–74, 1994.
22. WFPC2 Observations of the Globular Cluster M30. B. Yanny, P. Guhathakurta, D.P. Schneider, and J.N. Bahcall. *ApJL*, **435**, L59–L62, 1994.
23. Globular Cluster Photometry with the *Hubble Space Telescope*. III. Blue Stragglers and Variable Stars in the Core of M3. P. Guhathakurta, B. Yanny, J.N. Bahcall, and D.P. Schneider. *AJ*, **108**, 1786–1809, 1994.

24. The Type Ia Supernova 1989B in NGC 3627 (M66). L.A. Wells, M.M. Phillips, N.B. Suntzeff, S.R. Heathcote, M. Hamuy, M. Navarrete, M. Fernandez, W.G. Weller, R.A. Schommer, R.P. Kirshner, B. Leibundgut, S.P. Willner, R. Peletier, E.M. Schlegel, J.C. Wheeler, R.P. Harkness, D.J. Bell, J.M. Matthews, A.V. Filippenko, J.C. Shields, M. Richmond, D. Jewitt, J. Luu, H.D. Tran, P.N. Appleton, E.I. Robson, J.A. Tyson, P. Guhathakurta, J.A. Eder, H.E. Bond, M. Potter, S. Veilleux, A.C. Porter, R.M. Humphreys, K.A. Janes, T.B. Williams, E. Costa, M.T. Ruiz, J.T. Lee, J.H. Lutz, R.M. Rich, P.F. Winkler, and N.D. Tyson. *AJ*, **108**, 2233–2250, 1994.
25. A Catalog of Digital Images of 113 Nearby Galaxies. Z. Frei, P. Guhathakurta, J.E. Gunn, and J.A. Tyson. *AJ*, **111**, 174–181, 1996.
26. Globular Cluster Photometry with the *Hubble Space Telescope*. V. WFPC2 Study of M15's Central Density Cusp. P. Guhathakurta, B. Yanny, D.P. Schneider, and J.N. Bahcall. *AJ*, **111**, 267–282, 1996.
27. Stellar Variability in the Central Populations of 47 Tucanae from WF/PC Observations with the *Hubble Space Telescope*. II. Binary Systems. P.D. Edmonds, R.L. Gilliland, P. Guhathakurta, L.D. Petro, A. Saha, and M.M. Shara. *ApJ*, **468**, 241–260, 1996.
28. BVRI Light Curves for 29 Type Ia Supernovae. M. Hamuy, M.M. Phillips, N.B. Suntzeff, R.A. Schommer, J. Maza, R. Antezana, M. Wischnjewsky, G. Valladares, C. Muenia, L.E. Gonzales, R. Aviles, L.A. Wells, R.C. Smith, M. Navarrete, R. Covarrubias, G.M. Williger, A.R. Walker, A.C. Layden, J.H. Elias, J.A. Baldwin, M. Hernandez, H. Tirado, P. Ugarte, R. Elston, N. Saavedra, F. Barrientos, E. Costa, P. Lira, M.T. Ruiz, C. Anguita, X. Gomez, P. Ortiz, M. Della Valle, J. Danziger, J. Storm, Y.-C. Kim, C. Bailyn, E.P. Rubenstein, D. Tucker, S. Cersosimo, R.A. Mendez, L. Siciliano, W. Sherry, B. Chaboyer, R.A. Koopmann, D. Geisler, A. Sarajedini, A. Dey, N.D. Tyson, R.M. Rich, R. Gal, R. Lamontagne, N. Caldwell, P. Guhathakurta, A.C. Phillips, P. Szkody, C. Prosser, L.C. Ho, R. McMahan, G. Baggley, K.-P. Cheng, R. Havlen, K. Wakamatsu, K. Janes, M. Malkan, F.K. Baganoff, P. Seitzer, M. Shara, C. Sturch, J. Hesser, A.N.P. Hartig, J. Hughes, D. Welch, T.B. Williams, H. Ferguson, P.J. Francis, L. French, M. Bolte, J. Roth, S. Odewahn, S. Howell, and W. Krzeminski. *AJ*, **112**, 2408–2437, 1996.
29. The Luminosity-Linewidth Relation as a Probe of the Evolution of Field Galaxies. P. Guhathakurta, K. Ing, H.-W. Rix, M.M. Colless, and T. Williams. *J. Kor. A. Soc.*, **29**, S63–S64, 1996.
30. Probing the Cores of Dense Globular Clusters with the *Hubble Space Telescope*. P. Guhathakurta. *J. Kor. A. Soc.*, **29**, S139–S140, 1996.
31. Globular Cluster Photometry with the *Hubble Space Telescope*. VI. WF/PC-I Observations of the Stellar Populations in the Core of M13. R.L. Cohen, P. Guhathakurta, B. Yanny, D.P. Schneider, and J.N. Bahcall. *AJ*, **13**, 669–681, 1997.
32. Internal Kinematics of Distant Field Galaxies. I. Emission Linewidths for a Complete Sample of Faint Blue Galaxies at $z \sim 0.25$. H.-W. Rix, P. Guhathakurta, M.M. Colless, and K. Ing. *MNRAS*, **285**, 779–792, 1997.

33. Tests of the Tully-Fisher Relation. II. Scatter Using Optical Rotation Curves. S. Raychaudhury, K. von Braun, G.M. Bernstein, and P. Guhathakurta. *AJ*, **113**, 2046–2053, 1997.
34. Optical Light Curves of the Type Ia Supernovae SN 1990N and SN 1991T. P. Lira, N.B. Suntzeff, M.M. Phillips, M. Hamuy, J. Maza, R.A. Schommer, R.C. Smith, L.A. Wells, R. Aviles, J.A. Baldwin, J.H. Elias, L. Gonzales, A. Layden, M. Navarrete, P. Ugarte, A.R. Walker, G.M. Williger, F.K. Baganoff, A.P.S. Crotts, R.M. Rich, N.D. Tyson, A. Dey, P. Guhathakurta, J. Hibbard, Y.-C. Kim, D.M. Rehner, E. Siciliano, J. Roth, P. Seitzer, and T.B. Williams. *AJ*, **115**, 234–246, 1998.
35. Optical Spectroscopy of Galactic Cirrus Clouds: Extended Red Emission in the Diffuse Interstellar Medium. A. Szomoru and P. Guhathakurta. *ApJL*, **494**, L93–L97, 1998.
36. Deep Optical Imaging of the Bright Seyfert Galaxy NGC 5548: A Long, Very Low Surface Brightness Tail. J.A. Tyson, P. Fischer, P. Guhathakurta, P. McIlroy, R. Wenk, J. Huchra, L. Macri, L. Neuschaefer, V. Sarajedini, K. Glazebrook, K. Ratnatunga, and R. Griffiths. *AJ*, **116**, 102–110, 1998.
37. Isolating Red Giant Stars in M31's Elusive Outer Spheroid. D.B. Reitzel, P. Guhathakurta, and A. Gould. *AJ*, **116**, 707–722, 1998.
38. Globular Cluster Photometry with the *Hubble Space Telescope*. VII. Color Gradients and Blue Stragglers in the Central Region of M30 from Wide Field Planetary Camera 2 Observations. P. Guhathakurta, Z.T. Webster, B. Yanny, D.P. Schneider, and J.N. Bahcall. *AJ*, **116**, 1757–1774, 1998.
39. Properties of Two New M31 Dwarf Spheroidal Companions from Keck Imaging. E.K. Grebel and P. Guhathakurta. *ApJL*, **511**, L101–L105, 1999.
40. Extinction Curves, Distances, and Clumpiness of Diffuse Interstellar Dust Clouds. A. Szomoru and P. Guhathakurta. *AJ*, **117**, 2226–2243, 1999.
41. An Extremely Lithium-Rich Bright Red Giant in the Globular Cluster M3. R.P. Kraft, R.C. Peterson, P. Guhathakurta, C. Sneden, J.P. Fulbright, and G.E. Langer. *ApJL*, **518**, L53–L56, 1999.
42. The Dwarf Spheroidal Galaxy DDO 44: Stellar Populations and Distance. I.D. Karachentsev, M.E. Sharina, E.K. Grebel, A.E. Dolphin, D. Geisler, P. Guhathakurta, P.W. Hodge, V.E. Karachentseva, A. Sarajedini, and P. Seitzer. *A&A*, **352**, 399–405, 1999.
43. Radial Color Gradient and Main-Sequence Mass Segregation in M30 (NGC 7099). J.H. Howell, P. Guhathakurta, and A. Tan. *AJ*, **119**, 1259–1267, 2000.
44. Magnitude Bias of Microlensed Sources Toward the Large Magellanic Cloud. H.S. Zhao, D.S. Graff, and P. Guhathakurta. *ApJL*, **532**, L37–L40, 2000.

45. Breaking the Disk/Halo Degeneracy with Gravitational Lensing. A.H. Maller, L. Simard, P. Guhathakurta, J. Hjorth, A.O. Jaunsen, R.A. Flores, and J.R. Primack. *ApJ*, **533**, 194–202, 2000.
46. Dynamical Mass Estimates for the Halo of M31 from Keck Spectroscopy. N.W. Evans, M.I. Wilkinson, P. Guhathakurta, E.K. Grebel, and S.S. Vogt. *ApJL*, **540**, L9–L12, 2000.
47. Resolving the Controversy Over the Core Radius of 47 Tucanae (NGC 104). J.H. Howell, P. Guhathakurta, and R.L. Gilliland. *PASP*, **112**, 1200–1211, 2000.
48. The Local Universe. I.D. Karachentsev, V.E. Karachentseva, W.K. Huchtmeier, E.K. Grebel, D. Geisler, P. Guhathakurta, P.W. Hodge, A. Sarajedini, P. Seitzer, and A.E. Dolphin. *Kinematika i Fizika Nebesnykh Tel.* **Sup. 3**, 121–124, 2000.
49. *Hubble Space Telescope* Photometry of the Dwarf Spheroidal Galaxy ESO 410–G005. I.D. Karachentsev, M.E. Sharina, E.K. Grebel, A.E. Dolphin, D. Geisler, P. Guhathakurta, P.W. Hodge, V.E. Karachentseva, A. Sarajedini, and P. Seitzer. *ApJ*, **542**, 128–136, 2000.
50. Dwarf Spheroidal Galaxies in the M81 Group Imaged with WFPC2. I.D. Karachentsev, V.E. Karachentseva, A.E. Dolphin, D. Geisler, E.K. Grebel, P. Guhathakurta, P.W. Hodge, A. Sarajedini, P. Seitzer, and M.E. Sharina. *A&A*, **363**, 117–129, 2000.
51. A Lack of Planets in 47 Tucanae from a *Hubble Space Telescope* Search. R.L. Gilliland, T.M. Brown, P. Guhathakurta, A. Sarajedini, E.F. Milone, M.D. Albrow, N.R. Baliber, H. Bruntt, A. Burrows, D. Charbonneau, P. Choi, W.D. Cochran, P.D. Edmonds, S. Frandsen, J.H. Howell, D.N.C. Lin, G.W. Marcy, M. Mayor, D. Naef, S. Sigurdsson, C.R. Stagg, D.A. VandenBerg, S.S. Vogt, and M.D. Williams. *ApJL*, **545**, L47–L51, 2000.
52. SX Phoenicis Stars in the Core of 47 Tucanae. H. Bruntt, S. Frandsen, R.L. Gilliland, J. Christensen-Dalsgaard, J.O. Petersen, P. Guhathakurta, P.D. Edmonds, and G. Bono. *A&A*, **371**, 614–625, 2001.
53. The Type Ic SN 1990B in NGC 4568. A. Clocchiatti, N.B. Suntzeff, M.M. Phillips, A.V. Filippenko, M. Turatto, S. Benetti, E. Capellaro, R. Avilés, R. Covarrubias, K. DeGioia-Eastwood, M. Dickinson, C. Goiffes, P. Guhathakurta, M. Hamuy, S.R. Heathcote, B. Leibundgut, T. Matheson, M. Navarrete, M. Perez, A. Phillips, A. Piemonte, M.T. Ruiz, J.C. Shields, C. Smith, H. Spinrad, C.R. Sturch, J.A. Tyson, and L. Wells. *ApJ*, **553**, 886–896, 2001.
54. The Stellar Content and Distance of UGC 4483. A.E. Dolphin, L. Makarova, I.D. Karachentsev, V.E. Karachentseva, D. Geisler, E.K. Grebel, P. Guhathakurta, P.W. Hodge, A. Sarajedini, and P. Seitzer. *MNRAS*, **324**, 249–256, 2001.
55. WFPC2 Observations of Two Dwarf Spheroidal Galaxies in the M81 Group. I.D. Karachentsev, M.E. Sharina, A.E. Dolphin, D. Geisler, E.K. Grebel, P. Guhathakurta, P.W. Hodge, V.E. Karachentseva, A. Sarajedini, and P. Seitzer. *A&A*, **375**, 359–365, 2001.

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182. Kinematically-Decoupled Cores in Dwarf Ellipticals in the Virgo Cluster: Implications for Infallen Groups in Clusters. E. Toloba, P. Guhathakurta, G. van de Ven, A. Boselli, T. Lisker, R. Peletier, and the SMAKCED collaboration. *BAAS*, **223**, 428.06, 2014.

183. Carbon Stars in Andromeda. I. Detection and Spectroscopic Properties. K. Hamren, E. Toloba, C. Dorman, P. Guhathakurta, M. Chang, S. Guha, the PHAT collaboration, and the SPLASH collaboration. *BAAS*, **223**, 434.02, 2014.
184. Carbon Stars in Andromeda. II. Demographics and Photometric Properties. P. Guhathakurta, K. Hamren, C. Dorman, E. Toloba, A. Seth, J. Dalcanton, A. Nayak, the PHAT collaboration, and the SPLASH collaboration. *BAAS*, **223**, 434.03, 2014.
185. Detecting Reddening by Dust for Star Clusters in the Andromeda Galaxy. A. Cohn, C. Dorman, P. Guhathakurta, and the PHAT collaboration. *BAAS*, **223**, 442.31, 2014.
186. The C/M Ratio in the Disk of M31. K. Hamren, M.L. Boyer, P. Guhathakurta, the SPLASH collaboration, and the PHAT collaboration. *BAAS*, **225**, 133.06, 2015.
187. Dissecting the Milky Way Disk with LAMOST. J.L. Carlin, H.J. Newberg, C. Liu, T.C. Beers, X. Chen, K. Grabowski, P. Guhathakurta, S. Lépine, X. Liu, A.-L. Luo, H.-J. Tian, B. Yanny, H. Yuan, H. Zhang, G. Zhao, Y. Zhao, and Z. Zheng. *BAAS*, **225**, 142.16, 2015.
188. Stellar Kinematics and Structural Properties of Virgo Cluster Dwarf Early-Type Galaxies from the SMAKCED Project. E. Toloba, P. Guhathakurta, R. Peletier, A. Boselli, T. Lisker, E. Emsellem, J.D. Simon, G. van de Ven, and the SMAKCED collaboration. *BAAS*, **225**, 212.04, 2015.
189. Next Generation Virgo Survey Photometry and Keck/DEIMOS Spectroscopy of Globular Cluster Satellites of Dwarf Elliptical Galaxies in the Virgo Cluster. P. Guhathakurta, E. Toloba, E.W. Peng, B. Li, S. Gwyn, L. Ferrarese, P. Côté, J. Chu, L. Sparkman, S. Chen, S. Yagati, M. Muller, and the Next Generation Virgo Survey collaboration. *BAAS*, **225**, 212.05, 2015.
190. Kinematic Anomalies in Dwarf Elliptical Galaxies: New Constraints on Current Evolutionary Models. A. Nene, A. Wu, E. Toloba, and P. Guhathakurta. *BAAS*, **225**, 248.03, 2015.
191. Centaurus A through the Eye of the PiSCES: A Plethora of New Satellites and Streams. D. Crnojević, D.J. Sand, N. Caldwell, P. Guhathakurta, B.A. McLeod, A. Seth, J.D. Simon, J. Strader, and E. Toloba. *BAAS*, **225**, 248.05, 2015.
192. New, Faint Satellite Galaxies of NGC 253. D.J. Sand, D. Crnojević, N. Caldwell, P. Guhathakurta, B.A. McLeod, A. Seth, J.D. Simon, and J. Strader. *BAAS*, **225**, 248.06, 2015.
193. Comparing Chemical Compositions of Dwarf Elliptical Galaxies and Globular Clusters. J. Chu, L. Sparkman, E. Toloba, and P. Guhathakurta. *BAAS*, **225**, 248.22, 2015.
194. Flux Calibration and Spectral Typing of the SPLASH Sample. C. Chang, N. Vemuri, K. Hamren, and P. Guhathakurta. *BAAS*, **225**, 250.20, 2015.
195. The Kinematics of Dwarf Carbon Stars. K.A. Plant, B.H. Margon, P. Guhathakurta, and C.M. Rockosi. *BAAS*, **225**, 342.04, 2015.

196. Uncovering the Detailed Structure and Dynamics of Andromeda's Complex Stellar Disk. C. Dorman, P. Guhathakurta, A. Seth, J. Dalcanton, L. Widrow, the SPLASH team, and the PHAT team. *BAAS*, **225**, 429.01, 2015.
197. The Dearth of Lithium-Rich Red Giants in Globular Clusters. A.J. Zhang, E.N. Kirby, and P. Guhathakurta. *BAAS*, **225**, 449.08, 2015.
198. A New Coadded Spectroscopy Technique: Kinematics of NGC 4449's Tidal Stream. P. Guhathakurta, E. Toloba, A.J. Romanowsky, and J.P. Brodie. *BAAS*, **227**, 118.08, 2016.
199. HALO7D: Disentangling the Milky Way Accretion History with Observations in 7 Dimensions. E.C. Cunningham, A. Deason, P. Guhathakurta, C.M. Rockosi, R.P. van der Marel, and S.T. Sohn. *BAAS*, **227**, 326.03, 2016.
200. Extreme Runaway Dwarf Carbon Stars. K.A. Plant, B.H. Margon, P. Guhathakurta, G.P. Laughlin, and J.A. Munn. *BAAS*, **227**, 341.15, 2016.
201. Studying the Structure and Dynamics of the Subcomponents of the Milky Way. M. Wang, A. Mukherjee, J. Lin, P. Guhathakurta, M.A. Fardal, S.T. Sohn, E. Cunningham, A.J. Deason, E. Toloba, S. Keoliya, R.P. van der Marel, and C.M. Rockosi. *BAAS*, **227**, 342.21, 2016.
202. Studying the Structure and Dynamics of the Subcomponents of the Andromeda Galaxy. J. Lin, A. Mukherjee, M. Wang, P. Guhathakurta, M.A. Fardal, S.T. Sohn, E. Cunningham, A.J. Deason, E. Toloba, S. Keoliya, R.P. van der Marel, and C.M. Rockosi. *BAAS*, **227**, 342.22, 2016.
203. Discovery of Remote Globular Cluster Satellites of M87. L. Sparkman, R. Guo, E. Toloba, P. Guhathakurta, E.W. Peng, L. Ferrarese, and P. Côté. *BAAS*, **227**, 342.23, 2016.
204. The Frequency of Lithium-Rich Giants in Globular Clusters. E.N. Kirby, P. Guhathakurta, A.J. Zhang, J. Hong, M. Guo, R. Guo, J.G. Cohen, and K.M. Cunha. *BAAS*, **227**, 404.06, 2016.
205. M31AGES: Studying the Intermediate-aged Populations in the Satellites, Smooth Halo, and Substructure of Andromeda. K. Hamren, R. Beaton, P. Guhathakurta, S.R. Majewski, and the M31AGES Survey Team. *BAAS*, **227**, 441.04, 2016.
206. Studying the Nature of Runaway Stars Using Andromeda's Massive Stellar Population. J. Bulkley, A. Seth, C. Johnson, J. Dalcanton, R. Guhathakurta, C. Dorman, K. Hamren, N. Caldwell, and B. Williams. *APS Meeting Abstracts*, #S11.003.

PRESS RELEASES AND MEDIA COVERAGE

1. Participated in PBS Television Series (KCET, Los Angeles, CA); *The Astronomers*. "Episode: Where is the Rest of the Universe?" September 1990.

2. American Astronomical Society press release “The Many Faces of IRAS 100 micron Cirrus Clouds,” by P. Guhathakurta, R.M. Cutri, J.H. van Gorkom, and G.R. Knapp; January 1991.
3. American Astronomical Society press release “A CCD Mosaic Image of M31,” by P. Guhathakurta, S. Raychaudhury, and A. Berlind; June 1994.
3. Space Telescope Science Institute/UCSC press release “*Hubble* Peers Deep into the Heart of the Densest Known Star Cluster”, by P. Guhathakurta, B. Yanny, D.P. Schneider, and J.N. Bahcall; December 1995.
4. Participated in PBS Television Series (KTEH, San Jose, CA); “Real Science.” Segment: Astronomy Research with the *Hubble Space Telescope*, September 1996.
5. UCSC press release “UC Santa Cruz Astronomers Describe Two Newly Discovered Galaxies, Companions of the Nearby Andromeda Galaxy,” by E.K. Grebel and P. Guhathakurta; January 1999.
6. American Astronomical Society press release “*HST* Snapshot Survey of Nearby Dwarf Galaxy Candidates,” by P. Seitzer, E. K. Grebel, A. E. Dolphin, D. Geisler, P. Guhathakurta, P. W. Hodge, I. D. Karachentsev, V.E. Karachentseva, and A. Sarajedini; January 2000.
7. UCSC press release “Is There an Extreme Warp in the Stellar Disk of the Andromeda Galaxy?” by P. Guhathakurta, P. Choi, and D.B. Reitzel; January 2001.
8. Participated in PBS Television Series (KQED, San Francisco, CA); “Digital West.” Segment: State of the Skies, January 2001.
9. Interviewed for British Broadcasting Corporation (BBC) Science Radio (San Francisco, CA); The DEEP Survey and DEIMOS Spectrograph, March 2001.
10. Space Telescope Science Institute press release “*Hubble* Discovers Black Holes in Unexpected Places,” by R. van der Marel, J. Gerssen, P. Guhathakurta, R. Peterson, C. Pryor, M. Rich, K. Gebhardt, and L. Ho; September 2002.
11. UCSC press release “Astronomers Detect a Faint Debris Trail in the Andromeda Galaxy, More Evidence of Galactic Cannibalism,” by P. Guhathakurta and D.B. Reitzel; January 2003.
12. Panelist at Science Writers’ Workshop, Space Telescope Science Institute, Baltimore, MD; “The Stellar Halo of the Andromeda Spiral Galaxy” and “The Formation and Evolution of Dwarf Elliptical Galaxies,” May 2003.
13. UCSC and UC Berkeley press release “Astronomers Reveal the First Detailed Maps of Galaxy Distribution in the Early Universe,” by DEEP2 Team; July 2003.
14. Interviewed for British Broadcasting Corporation (BBC) Radio documentary on galaxy formation, UCSC; September 2003.

15. Participated in documentary on US science education by independent film maker Robert Enteen, Woods Hole, MA, July 2004.
16. Participated in documentary on the Sun and its effect on humans by independent film maker Peter Sorcher, Santa Cruz, CA; September 2004.
17. UCSC press release “A Simple Survey Yields a Cosmic Conundrum,” July 2006.
18. Interviewed about Mercury transit for the Banana Slug News (UCSC TV station)/interviewer: Victoria Wilder-Eisenberg, November 2006.
19. Interviewed for short documentary entitled “Stargazers” for UCSC student film/interviewer: Hiroki Ono, November 2006.
20. UCSC press release “Astronomers Discover an Enormous Halo of Red Giant Stars around Andromeda”; accompanying press conference at the Seattle AAS meeting, January 2007.
21. University of Massachusetts press release “Evidence of Ancient Galactic Collision Found, Confirmed by UMass Amherst Astronomer’s Model”; accompanying press conference at the Seattle AAS meeting, January 2007.
22. AEGIS special issue (UCB) and NASA/STScI video of *HST*/ACS poster of EGS, March 2007.
23. Quoted in a *San Francisco Chronicle* article about the impending collision between our Milky Way and the Andromeda galaxies, May 2007.
24. Quoted in a *Discover* magazine article about the Local Group, where our group’s discovery of M31’s stellar halo is cited, August 2007.
25. Nature Research Highlights writeup of Gilbert et al. (2007) article on the discovery of M31’s SE shelf and its relation to the giant southern stream, October 2007.
26. Interviewed for National Geographic News article about the Majewski et al. (2007) article about the discovery of the dynamical rogue Andromeda dwarf satellite And XIV, November 2007.
27. Discovery Channel program featuring Fardal et al. (2008) article on the detailed forensic reconstruction of M31’s giant southern stream, July 2008.
28. Astronomy magazine article on galaxy cannibalism featuring the SPLASH group’s work on the giant southern stream in Andromeda; on-line blog on this topic hosted by associate editor Dan Pendick; January–April 2009.
29. Gave radio interview about how astronomers measure distances to stars for Science Update (scienceupdate.com) of the AAAS; program: Why is it?; interviewer: Corrina Wu, March 2009.

30. Interviewed by Yudhijit Bhattacharjee for two Science magazine articles, one about extreme adaptive optics and direct searches for exoplanets and the other about the TMT/GMT rivalry, May 2009.
31. Guest at the Richard Dawkins Foundation for Reason and Science fundraising event, Rosewood Sandhill Resort, Menlo Park, October 2009.
32. UCSC News & Events story and Harker School release on Harker students earning Intel Science Talent Search semi-finalist/finalist spots, January 2010.
33. Expert commentator on AAS press release on “Astronomers Map the Shape of Galactic Dark Matter” by David Law, Steve Majewski, and Kathryn Johnston, Washington, D.C., January 2010.
34. AAS press conference on “Galaxies Stirred, But Not Shaken” based paper on “Tidal Streams in Andromeda’s Halo” and associated UCSC/NSF/Keck Observatory/Subaru press releases, Washington, D.C., January 2010.
35. UCSC News & Events article on “Cannibal Galaxies and Chemical Abundances: High School Physical Science Interns Explore the Universe,” by Dan White; Santa Cruz, CA, July 2010.
36. Castilleja School News Alert “Summer of Science” and video, by Katherine Kirsch; Palo Alto, CA, July 2010.
37. Harker News article: “A New California Record: Seven Intel Semifinalists”; San Jose, CA, January 2011.
38. UCSC News & Events article on “UCSC Faculty Mentor Intel Science Contest Finalists,” by Tim Stephens; Santa Cruz, CA, February 2011.
39. Quoted in City on a Hill Press article about Illingworth & Bouwens’ discovery of $z \sim 10$ galaxy candidate; interviewed by Kara Foran; Santa Cruz, CA, February 2011.
40. Interviewed by Ellen Morgan, Australian exchange student in newswriting journalism at UCSC, about Illingworth & Bouwens’ discovery of $z \sim 10$ galaxy candidate; Santa Cruz, CA, February 2011.
41. Science magazine article entitled “Galaxy Evolution: Milky Way Researchers’ Home Away From Home,” by Yudhijit Bhattacharjee prominently featured the SPLASH group's work, July 1 2011 issue.
42. UCSC University News article entitled “Milky Way Destined for Head-on Collision with Andromeda Galaxy,” by Tim Stephens; Santa Cruz, CA, May 2012; accompanying NASA and STScI press releases and NASA press conference.
43. Presentation about the Thirty-Meter Telescope at “Science/Engineering Boot Camp for Journalists on Computational Astronomy: from Planets to Cosmos”; Santa Cruz, CA, June 2012.

44. NASA/STScI press release “Hubble Unmasks Ghost Galaxies”; Baltimore, MD, July 2012.
45. Quoted extensively in Sky & Telescope magazine article entitled “Cosmic Web Weeds Dwarf Galaxies,” by Camille Carlisle, about recent article on the arXiv on ram-pressure by the cosmic web and the missing satellites problem, November 2012.
46. San Jose Mercury News article “Galactic surprise: New find overturns theories how our galaxy evolved” about paper led by Susan Kassin on the luminosity-linewidth of distant galaxies; January 2013.
47. Interviewed by Tia Ghose of LiveScience about AAS poster led by my SIP students Zareen Choudhury and Caroline Debs on runaway massive hot young stars in M31; January 2013.
48. NASA/STScI/UCSC press release “Stellar Motions in Outer Halo Shed New Light on Milky Way Evolution” about work with A. Deason and R.P. van der Marel; February 2013.
49. UCSC press release “UCSC internships for high school students yield success in science contests”, October 2013.
50. Interviewed (along with Josée Band) by Dana Sundblad for feature on “Getting Girls to Thrive in STEM” in the Castilleja School’s Full Circle publication, December 2013.
51. Participated in “JWST Hangout on Air” at the 223rd AAS meeting in Washington DC, a live-streamed discussion with Tony Darnell (Social Media Manager at STScI) and Alberto Conti (Northrop Grumman) about galaxy evolution studies including research by high school students, January 2014.
52. Interviewed by Kiet Do, reporter for Channel 5 KPIX (CBS) San Francisco, for a story about the conversion of San Jose’s streetlights from low-pressure sodium lamps to white light LED lamps and the impact on Lick Observatory, February 2014.
53. International Innovation (Research Media Ltd.) reports “High School Scientists” and “Galactic Exploration” about the UCSC Science Internship Program and the SPLASH collaboration’s research highlights, respectively, July 2014.
54. Palo Alto Weekly News story “Stoking a passion for science” about the UCSC Science Internship Program (reporter: Veronica Weber), July 2014.
55. Imagine magazine (publication of Johns Hopkins University Center for Talented Youth) story “Star Studies” about the UCSC Science Internship Program written by SIP alumna Zareen Choudhury, September 2014.
56. Telegraph (Kolkata, India) article “Sky’s the limit for these girls” about three high school students’ participation in the 2014 Pacific Astronomy and Engineering Summit in Hilo, HI mentored by E. Cunningham and me (reporter: Jhinuk Mazumdar), December 2014.

57. UCSC press release (joint with WMKO) “Study of Andromeda’s stellar disk indicates more violent history than Milky Way” about work with C. Dorman, January 2015.
58. Presentation at press conference about Lick Observatory and LED streetlighting, Miner Park, San Jose, CA (with Mayor Sam Liccardo, Councilmember Ash Kalra, et al.; covered by KTVU TV, KGO radio, Chinese newspapers TVB USA and Sing Tao), February 2015.
59. UCSC press release “UC Santa Cruz professor aims to expand science internships for high school students” about a collaboration with Google to expand and diversify the Science Internship Program on a national/global scale, February 2015.
60. Talk at TEDx Harker School conference “The Importance of Engaging Youth in Research: An Astronomer’s Perspective”, October 2015.
61. Mentioned in article “Sky above, earth below and everything in between” by Devi Kar in The Telegraph (Kolkata, India), February 2016.

UNIVERSITY SERVICE

Astronomy and Astrophysics Department and UCO Administrative Appointments

- 1994–1995 Coordinator, FLASH seminar series, Lick Observatory
- 1994– Member, Ph.D. Qualifying/Thesis Defense Examination Committee for 16 UCSC A&A Department students
- 1995–1996 Member, Preliminary Examination Committee
- 1996 Faculty Representative, NSF/AAS Western Regional workshop on “The Future of Astronomy Graduate Programs,” Tuscon, Arizona, November
- 1997 Chair, Graduate Career Opportunities Committee
- 1997–1999 Member, Graduate Student Advising Committee
- 1998–2002 Member, Preliminary Examination Committee
- 1998–2009 Assistant to Burton Jones, Lick Observatory’s Liaison with the San Jose Streetlighting Division
- 1999 Representative, Preview Day for Graduate School Applicants
- 2001 Member, Colloquium Committee (Fall)
- 2001 Chair, Preliminary Examination Committee
- 2000–2001 Member, UCO/Lick Faculty Recruitment Committee
- 2003–2006 Member, Graduate Advising Committee
- 2003–2008 Associate Department Chair
- 2003–2014 Graduate Representative
- 2003–2014, 2016–present
Chair (2003–2012)/co-chair (2013–2014, 2016–), Graduate Admissions Committee; initiated Skype video interviews in Spring 2009
- 2005–2012 Member, Development Committee (A&A Department and UCO/Lick Observatory)
- 2007–2008 Chair, Graduate Advising Committee
- 2010–2014 Lick Observatory Liaison with the San Jose Streetlighting Division
- 2012–2014 UCO Development Coordinator
- 2012–2014 Chair, Keck UC Extragalactic Time Allocation Committee

- 2014, 2016–present Scheduler, Keck UC telescope time
 2016 Graduate Curriculum Committee

UC Santa Cruz Administrative Appointments

- 1999 Member, Ad-Hoc Committee for Promotion to Tenure
 2001–2002 Member, Committee on Teaching
 2004 Member, Committee on Academic Personnel, Ad-Hoc Committee for Appointment
 2005 Chair, Ad-Hoc Committee for Promotion to Tenure
 2006 Graduate Admissions Review Portal (GARP) Steering Committee
 2007 Chair, Ad-Hoc Committee for Promotion to Tenure
 2007 Member, Academic Information Systems (AIS)/MyUCSC working group, Spring
 2007–2008 Subcommittee Chair, Committee on Academic Freedom, to deal with a specific complaint to Senate Executive Committee
 2007–2010 Member, Committee on Academic Freedom
 2012– Member, Independent Substantive Review (Conflict of Interest) Committee
 2013–2014 Member, Committee on Academic Freedom
 2013–2016 UCSC representative to AURA (Association of Universities for Research in Astronomy)

Other Activities

- 1995–1997 Co-PI, Echelle Spectrograph and Imager (ESI) on Keck Telescope
 1998 Helped prepare for NSF review panel's site visit for CfAO
 1999–2000 CfAO building users' group
 1999–2000 Videoconferencing lead, CfAO (with Sandra Faber)
 2000 Presentation for Ed Frank, potential donor (with Joseph Miller and Burton Jones)
 2000–2001 California Extremely Large Telescope (CELT) Instrument Working Group
 2001 Presentation for Ben Lutch, Graham Spencer and other Excite.com co-founders at Mount Hamilton (with Remington Stone)
 2001 Presentation and DEIMOS tour for Ben Lutch and Graham Spencer (Excite.com co-founders) at UCSC (with Joseph Miller, Sandra Faber, and Remington Stone)
 2001 Facilitated ESI multi-slit echelle mode (with Judith Cohen and Robert Goodrich)
 2001 CfAO Astronomical Science summary presentation at year 2 NSF site visit
 2001 DEIMOS tour and presentation for new UC Regent: George Marcus
 2001–2002 Videoconferencing for the A&A Department (with Sandra Faber)
 2002 Participated in UC Regents visit
 2002–2004 Supervision of Lick Observatory web page design (with Robin Horn née Witmore)
 2003 Participated in Carmel fund-raising event hosted by Trustee Marion Cope
 2003 Facilitated use of multi-slit spectroscopy through "megamasks" on DEIMOS using narrow-band Ca triplet filter
 2004 Supervised computer arrangements for new first-year graduate students
 2004–2005 Keck Observatory Science Steering Committee (SSC)
 2005 Courted potential donors from Cisco, Rick Sanford and Kim Gibbons, at Lick Observatory, Mt Hamilton, CA
 2005 Presentation for The Indus Entrepreneurs (TiE) group at fund-raising event with Chancellor Denice Denton and three other UCSC faculty members at UCSC

- 2005 Judge, Annual Graduate Student Research Symposium at UCSC
- 2005 Campus representative, meeting with Western Association of Schools and Colleges (WASC) accreditation team on the effectiveness of graduate programs
- 2005 Principal scientist and science team member for the TMT Deployable Annular Imaging Spectrograph for the Investigation of the Evolution of Structure (DAISIES) instrument led by the University of Wisconsin (PI: Andrew Sheinis) and UCSC. Instrument not selected for TMT
- 2005 Science team member for the Thirty-Meter Telescope (TMT) Wide-Field Optical Spectrograph (WFOS) instrument led by Canada: Roberto Abraham (University of Toronto) and Patrick Coté (Herzberg Institute of Astrophysics, Victoria)
- 2005–2009 Co-Chair (for UC), Thirty-Meter Telescope Science Advisory Council
- 2008– Member, TMT/MOBIE science team
- 2009 Main lecture at “A New View of the Universe” reception hosted by Keck Observatory, Atherton, CA; 30 donors/prospects; “Our Place in the Cosmos: The Andromeda Galaxy and Galaxy Cannibalism”
- 2009 Main lecture at “An Evening Under the Stars” event hosted by Keck Observatory, Kohala, HI; 200 donors/prospects; “Our Place in the Cosmos: The Andromeda Galaxy and Galaxy Cannibalism”
- 2009 Two lectures as part of Keck Observatory Advancement’s “Evenings with Astronomers” series, Hawaii; “M31—The Galaxy Next Door”
- 2010 Lecture at Astronomy Salon, Saratoga, CA; 30 donors/prospects; “Galaxies and our Place in the Cosmos”
- 2010 Lecture (with Greg Laughlin) for Achievement Rewards for College Scientists Foundation annual donors meeting, University of California San Francisco Mission-Bay, San Francisco, CA; “Our Place in the Cosmos”
- 2010 Hosted Kabir Chattopadhyay and family (neighbors of Anu Luther) at UCSC (with Enrico Ramirez-Ruiz)—follow-up of Astronomy Salon
- 2010 Fielded astronomy questions (with E. Ramirez-Ruiz and R. Bernstein) at a salon-style dinner hosted by Rakesh and Dipti Mathur at their home, Saratoga, CA
- 2011 Facilitated the dissertation project of Julie Posselt (U. of Michigan Education Dept Ph.D. student visiting UCSC working on graduate school selection criteria)
- 2011 Presented new idea about astronomy-friendly LED lighting for future streetlighting at Municipal Solid-state Street Lighting Consortium (with Dale Kane and Nancy Klanton), San Jose, CA
- 2011 Interviewed by Reynal Guillen (NSF postdoc, UCLA) for his project on students from underrepresented minorities – topics included research mentoring, outreach, graduate admissions, teaching large introductory classes at UCSC, the COSMOS program, design of research projects, and use of large data sets
- 2011 Gave a talk entitled “Our Place in the Cosmos” to 75–100 students and participated in a panel discussion (with Tyrus Miller and Allison Galloway) at the SACNAS (Society for the Advancement of Hispanics/Chicanos and Native Americans in Science) annual conference, Tech Museum, San Jose, CA
- 2011 Gave a talk on behalf of Keck Advancement to prospective donor group from Omaha: “Our Place in the Cosmos”, Keck HQ, Waimea, HI
- 2011 Hosted/co-hosted two different summit visits and Keck tours: (1) with Jeff Dean (Google) and his daughter Victoria Dean (UCSC SIP intern, Castilleja student), and (2) with Jim Chang (Stanford surgeon and Castilleja parent), Mauna Kea, HI; Dean made a donation of \$10K to W.M. Keck Observatory at the end of his tour

- 2011 Helped coordinate Lick Observatory's participation in the Bay Area Science Festival (with John Wareham and Graeme Smith) and gave a public lecture: "Astronomy and Cosmology (not to be confused with Astrology, Gastronomy, and Cosmetology)", Mount Hamilton, CA
- 2011 Gave a Google Tech talk: "Our Place in the Cosmos" – in part to advertise the SIP program, Mountain View, CA; hosts: Jeff Dean and Boris Debic (Google)
- 2011 Spoke at an astronomy salon hosted by Rakesh and Dipti Mathur at their home, Saratoga, CA – aimed at fundraising for the SIP program and UCSC graduate fellowships in astronomy; talk title: "Mergers and Acquisitions: The Lives and Times of Galaxies"
- 2011–2013 Member of the UCSC COSMOS committee to restructure this summer program for high school students; committee convened/chaired by Professor Richard Hughey, Vice Provost and Dean of Undergraduate Education
- 2012–2014 Worked with Gordon Ringold (Director, UCSC's Silicon Valley Initiative), Srin Madala (CEO, Softsol), and Robert Irion (Director, UCSC's Science Writing Program) to try to set up a UCSC/KQED science writing competition and award
- 2012 Gave a talk entitled "Astronomy & Cosmology (not to be confused with astrology, gastronomy, and cosmetology)" to 12 students from the UC Santa Cruz chapter of SACNAS (Society for the Advancement of Hispanics/Chicanos and Native Americans in Science), UCSC
- 2012 Spoke to a women's group, residents of Silver Creek Valley Country Club, San Jose, CA; responded to a request made to UCO/Lick Observatory; talk title: "Mergers and Acquisitions: The Lives and Times of Galaxies"
- 2013 Invited to serve on panel for "Astronomy Live! Tonight" hosted by Timothy Ferris and to speak about "Galaxies: Island Universes?"; reception on the occasion of the W.M. Keck Observatory 20th anniversary celebration, Waimea, HI
- 2013 Led astronomy workshop for 30 middle school students from Shoreline School in Santa Cruz (assisted by Claire Dorman and Katie Hamren); first annual Middle School Summit at UCSC as part of the Santa Cruz County College Commitment (S4C)/coordinator: Michelle Whittingham, associate vice chancellor of Enrollment Management and interim director of Financial Aid and Scholarships
- 2013 Worked with Dan Zevin (CSE/SSL Berkeley), Joell Hanson (principal), Mark Hanson (technical consultant), and Dave Chisholm (teacher) and others to set up a partnership between Prospect High School, Saratoga, CA and Lick Observatory
- 2014 Judge, Graduate Research Symposium, UCSC
- 2014 The Science Internship Program paid out ~ \$150,000 in graduate student mentor stipends and ~ \$25,000 in post-doctoral/staff researcher stipends over the summer
- 2014–2015 Collaboration with artist Diana Thater on a Milky Way themed video art installation as part of the "Beta Space" series at the San Jose Museum of Art
- 2015 Sabbatical visit to Google, Mountain View, CA to work on expansion and diversification of the Science Internship Program and to do a computational project: creating a grid of synthetic stellar spectra to measure the chemical abundances of stars in the Milky Way halo from the HALO7D project
- 2015 Gave a series of three Google Tech talks: "Astrophysics Lecture Series – 1. The Universe of Galaxies; 2. Relativity & Black Holes; 3. The Early Universe" – in part to advertise the SIP program, Mountain View, CA; host: Ira Pramanick (Google)

- 2016 Hosted outreach event (public talk, Keck/DEIMOS remote observing) at W.M. Keck Observatory headquarters, Waimea, HI for a group of Hawai Prep Academy high school students, Castilleja School girls, teachers, and parents.

PROFESSIONAL ACTIVITIES

Consultative or Other Service to Civic, State, or National Governmental Agencies

- 1990–1995 Referee, National Optical Astronomy Observatories (CTIO) observing proposals
 1991–1999 Reviewer, National Science Foundation grant proposals
 1995 Reviewer, NASA/*Hubble Space Telescope* Cycle 6 proposals
 1998 Reviewer, CalSpace grant proposals
 2000 Member, NASA Space Interferometry Mission AO panel
 2000–2002 Member, National Optical Astronomy Observatories TAC panel
 2001 Reviewer, NASA/*Hubble Space Telescope* Cycle 11 proposals
 2001–2002 Member, Hubble Fellowship selection panel
 2002 Chair, SPIE Conference AS01–4834 on “Discoveries and Research Prospects from 6- to 10-Meter-Class Telescopes II” (Waikoloa, HI); tasks: putting together program committee, invited review talks, and overall schedule of talks/posters
 2002 Referee, Canada-France-Hawaii Telescope observing proposals
 2003 Member, Large Synoptic Survey Telescope Stellar Populations panel
 2006 Member, review panel for NASA’s Astrophysics Data Program; Baltimore, MD, October
 2006 Participant in effort to forge closer Indo-US astronomy ties (led by Shri Kulkarni at Caltech)
 2007 Panelist, *Hubble Space Telescope* Cycle 16 proposals, Baltimore, MD; March
 2007 Member, Extragalactic science panel, *Spitzer Space Telescope* Cycle 4 proposals, Pasadena, CA
 2007–2008 Member, MAGIQ preliminary and detailed design review committee (Keck Observatory acquisition and guiding system), Waimea, HI, March–August
 2007 Member, Scientific Organizing Committee, TMT Science Workshop, July 2007
 2007 Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC)
 2009–2010 Member, Electromagnetic Observations from Space (EOS) Program Panel of the National Research Council’s Astro2010 Astronomy and Astrophysics Decadal Survey
 2010 Member, *Hubble Space Telescope* Cycle 18 proposal review panel, Space Telescope Science Institute, Baltimore, MD
 2010–2011 Referee, Subaru Open Use proposals for 2010B, 2011A, and 2011B semester for proposals related to Nearby Galaxies, Local Group, and Milky Way
 2011 Member, Hubble Fellowship selection committee, Space Telescope Science Institute, Baltimore, MD
 2011 Reviewer, National Science Foundation grant proposals in the panel “Populations, Abundances, Surveys and Structure”, NSF headquarters, Washington DC
 2011–2013 Member, first international time allocation committee for China’s new Telescope Access Program, which gives Chinese astronomers access to CFHT, Palomar 5-m, MMT, and Magellan

- 2012 Chair, Hubble Fellowship selection committee, Space Telescope Science Institute, Baltimore, MD
- 2012 Reviewer, National Science Foundation grant proposals in the panel “Populations, Abundances, Surveys and Structure”, NSF headquarters, Washington DC
- 2012 Reviewer, National Science Foundation grant proposals in the panel “High Redshift Galaxies”, NSF headquarters, Washington DC
- 2013 Member, *Hubble Space Telescope* Cycle 21 proposal review panel on galaxies, Space Telescope Science Institute, Baltimore, MD
- 2015 Reviewer, National Science Foundation grant proposals, NSF headquarters, Washington DC

External Membership on Examination Committees

- 1993 John Hibbard, Ph.D. thesis defense (Columbia U)
- 1999 Ariyeh Maller, Ph.D. thesis defense (UCSC/Physics)
- 2004 Jonathan Gehan, MS thesis defense (U Victoria)
- 2009 Erik Tollerud, Ph.D. topic defense (UC Irvine)
- 2009 Peter Manning, Ph.D. topic defense (UCSC–SCIPP/Physics)
- 2008 Janet Colucci, Ph.D. topic defense (U Michigan)
- 2010 Janet Colucci, Ph.D. thesis defense (U Michigan)
- 2011 Chengze Liu, final postdoc exam (KIAA, Beijing, China)

Invited Talks at Conferences

- 1990 STScI workshop, “Evolution of Galaxies at High Redshift,” Baltimore, MD; Redshift Constraints from Deep UBRI Imaging, April.
- 1991 XXVIth Rencontre de Moriond, “Early Observable Universe from Diffuse Backgrounds,” Les Arcs, France; Redshift Constraints and Clustering of Faint Galaxies, March.
- 1992 STScI Symposium, “Blue Stragglers,” Baltimore, MD; *HST* Study of Blue Stragglers in 47 Tuc and M15, July.
- 1993 First Symposium on “Infrared Cirrus and Diffuse Interstellar Clouds,” Tucson, AZ; Optical Studies of High-Latitude Dust, May.
- 1993 Sixth Asian-Pacific Regional Meeting of the IAU, Pune, India; Faint Blue Galaxies and Gravitational Lensing by Galaxy Clusters, August.
- 1993 Workshop on “Dense Stellar Systems,” Santa Barbara, CA; The Cores of 47 Tuc and M15, September.
- 1994 Winter School, “Large-Scale Structure & Cosmology,” Mysore, India; three lectures, November.
- 1995 Annual meeting of the American Association for the Advancement of Science (AAAS), Symposium title—“Year of Discovery with *HST*,” Atlanta, GA, Great Balls of Stars, February.
- 1995 Aspen Summer Workshop on “Dense Stellar Systems,” Aspen, CO; The Center of M15 as revealed by *HST*/WFPC2, June.
- 1995 International Astronomical Union 174, “Dynamical Evolution of Star Clusters,” Tokyo, Japan; *HST* Studies of the Dense Central Regions of Globular Clusters, August.
- 1996 Asian Pacific Regional meeting, Pusan, Korea; Globular Cluster Cores, August.

- 1997 Green Bank Meeting, "Highly Redshifted Radio Lines," Green Bank, WV; Luminosity-Line-width Relation as a Probe of Galaxy Evolution, October.
- 1997 International Astronomical Union, Joint Discussion 15, "Stellar Dynamics," Kyoto, Japan; Evolved Stellar Populations in Globular Cluster Cores, August.
- 1997 Santa Cruz Summer Meeting, "Galactic Halos," Santa Cruz, CA; Stars in Local Group Suburbia: Red Giants in M31's Outer Spheroid and a Search for Stars in the Magellanic Stream, August.
- 1997 Symposium on "Star Clusters," Mt. Sorak, Korea; Density Profiles and Stellar Populations of Dense Globular Cluster Cores, February.
- 1998 International Astronomical Union Colloquium No. 171, "The Low Surface Brightness Universe," Cardiff, UK; Optical Cirrus, July.
- 1999 "Invencao" conference, Sao Paulo, Brazil; Subtract the Sky, August.
- 2000 American Museum of Natural History workshop, "Stellar Collisions," New York, NY; Stellar collisions and Mergers in Real Space Versus Pixel Space, May.
- 2000 SPIE meeting, "Discoveries and Research Prospects with 8- to 10-Meter-Class Telescopes," Munich, Germany; Keck Studies of M31's Stellar Halo, March.
- 2001 Annual meeting of the American Association for the Advancement of Science (AAAS), Symposium title—"From Gas to Galaxies: A Cosmic Conundrum," San Francisco, CA; The M31 Subgroup: A Fossil Record of Galaxy Formation and Evolution, February.
- 2001 Ringberg workshop, "Low Mass Galaxies and Constraints on Dark Matter," Ringberg Castle, Germany; Metallicity and Kinematics of the M31 Dwarf Satellites, August.
- 2001 Yale workshop, "Intrinsic Shapes of Galaxy Halos," New Haven, CT; Keck Spectroscopy of Red Giants in M31's Stellar Halo, June.
- 2002 Herzberg Institute of Astrophysics mini-workshop, "Galaxies," Victoria, BC, Canada; M31: A Fossil Record of Galaxy Formation and Evolution, August.
- 2003 Banff International Research Station workshop, "Galaxy Formation: A Herculean Challenge," Banff, Canada; The Outskirts of M31: Keck Spectroscopy of Red Giants, November.
- 2003 Institute for Advanced Studies, Hebrew University workshop, "Galaxy Formation," Jerusalem, Israel; M31's Stellar Halo: Substructure, Dynamics and Metallicity, and Dwarf Spheroidal Satellites of M31 and Dwarf Ellipticals in Virgo (two talks), June.
- 2003 Kavli Institute for Theoretical Physics conference, "Globular Clusters: Formation, Evolution, and the Role of Compact Objects," Santa Barbara, CA; A Deep, High-Resolution Study of the Core of 47 Tucanae, January.
- 2003 Space Telescope Science Institute symposium, "The Local Group as an Astrophysical Laboratory," Baltimore, MD; The Halo and Companions to M31, May.
- 2005 Mass and Mystery in the Local Group, Institute of Astronomy, Cambridge, U.K.; "M31's Extended Halo: Structure, Dynamics, and Metallicity," July.
- 2005 Resolved Stellar Populations, Cancun, Mexico; "M31's Extended Halo: Dynamics, (Sub)Structure, and Chemical Abundance" (review talk), April.
- 2006 Applications of Gravitational Lensing: Unique Insights into Galaxy Formation and Evolution, Kavli Institute for Theoretical Physics, Santa Barbara, CA; "Substructure in M31's Stellar Halo," October.

- 2006 Deconstructing the Local Group—Dissecting Galaxy Formation in our Own Background, Aspen Center for Physics, Aspen, CO; “A Sample of Results from the AEGIS Survey,” June.
- 2006 Deconstructing the Local Group—Dissecting Galaxy Formation in our Own Background, Aspen Center for Physics, Aspen, CO; “Dwarf Galaxies in the Local Group and Beyond,” June.
- 2006 Local Group Cosmology, Aspen Center for Physics, Aspen, CO; “The Stellar Halo of the Andromeda Spiral Galaxy,” February.
- 2007 Astrophysical Probes of Dark Matter, University of California (Center for Cosmology), Irvine, CA; “M31’s Extended Stellar Halo and Dwarf Satellites,” March.
- 2007 Science in the Era of TMT, University of California (Center for Cosmology), Irvine, CA; “Studying Galaxy Assembly in the Local Volume in the TMT Era,” July.
- 2007 The Globular Cluster-Dwarf Galaxy Connection, University of Michigan, Ann Arbor, MI; “M31’s Dwarf Galaxy Building Blocks,” August.
- 2008 Building the Milky Way (workshop) and Back to the Galaxy II (conference), Kavli Institute for Theoretical Physics, Santa Barbara, CA; “The SPLASH Survey and Hierarchical Galaxy Halo Formation,” September.
- 2008 Galactic Structure and the Structure of Galaxies, Ensenada, Mexico; “Lessons from M31,” March.
- 2009 The Milky Way and the Local Group—Now and in the Gaia Era, Heidelberg, Germany; “Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation,” August.
- 2009 Southern Cross Astrophysics Conference Series: II. Galaxy Metabolism, Sydney, Australia; “The SPLASH Survey and the Progressive Stages of Hierarchical Galaxy Formation,” June.
- 2009 Unveiling the Mass: Extracting and Interpreting Galaxy Masses conference, Queen University, Kingston, Ontario, Canada; “Galaxy Dynamics and Mass Constraints from the SPLASH Survey: From Local Group to Dwarf Satellite Scales,” June.
- 2010 2010 Hubble Fellows Symposium (special 20th anniversary edition), Baltimore, MD; “Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation” and “Hubble Fellow Family Tree,” March.
- 2011 KraftFest, UCSC, Santa Cruz, CA; “The Stellar Halo of M31: Chemical Abundance Patterns and Coadded Spectra,” July.
- 2011 Santa Cruz Galaxy Workshop, UCSC, Santa Cruz, CA; “M31’s Unusual Bulge,” August.
- 2012 The Great Andromeda Galaxy: A Workshop to Celebrate Martin Schwarzschild’s Centennial, Princeton University, Princeton, NJ; “M31 and the Deathly Halos: Results from the SPLASH Survey,” June.
- 2013 Keck Observatory 20th Anniversary Science Meeting, Kohala, HI; “Mergers and Acquisitions by the Andromeda Galaxy as Documented by Keck,” March.
- 2014 Panelist, Mentoring of students, Annual workshop for National Science Foundation Astronomy & Astrophysics Postdoctoral Fellows, Washington, DC, January.
- 2014 Talk at the French-American International School’s Friends of STEM and TeenTechSF’s informational evening about national science fair competitions, San Francisco, CA; coordinator: Marc Robert Wong; “The UCSC SIP program and Preparing to Compete in the Siemens and Intel Science Competitions,” January.

- 2014 Nuclear Clusters in Galaxies and the Role of the Environment, Lorentz Centre, Leiden, The Netherlands; “Spectroscopy of the Nuclei and Globular Cluster Satellites of Virgo Cluster Dwarf Elliptical Galaxies,” June.
- 2014 Unsolved Problems in Astrophysics and Cosmology, Eötvös University, Budapest, Hungary; “Unsolved Problems in Galaxy Formation: Dwarf Galaxies and the Andromeda and Milky Way Halos,” July.
- 2014 Thirty-Meter Telescope Science Forum, International Science Definition Team session on Milky Way and Galaxies, Tucson, AZ; “Summary of Contributions – Nearby Galaxies” and “Getting Ready for TMT by Pushing the Keck Telescope to its Limits,” July.
- 2014 Santa Cruz Galaxy Workshop, Santa Cruz, CA; “HALO7D: Looking at and through the Milky Way,” August.
- 2014 Knappfest, Princeton, NJ; “The Outskirts of Galaxies,” September.
- 2015 Santa Cruz Galaxy Workshop, UCSC, Santa Cruz, CA; “Dynamics of the Outskirts of Galaxies: Some Results from the NGVS,” August.
- 2016 Bay Area High School Research Symposium, Stanford University, Stanford, CA; “The UCSC Science Internship Program and the Global SPHERE Network,” February.
- 2016 Maximizing Science in the Era of LSST: A Community-based Study of Needed US OIR Capabilities, Biosphere 2, Oracle, AZ; study group on “Milky Way and Resolved Stellar Populations,” May.
- 2016 Southern Spectroscopic Survey Workshop, Argonne National Lab, Lemont, IL; “Local Dwarf Galaxies,” August.
- 2016 A Symposium to Celebrate the Life of Michael A. Jura, UCLA, Los Angeles, CA; “Studying Dust for Dust’s Sake: How Mike Jura Inspired a Young Astronomer,” September.

Seminars and Colloquia

- 1988 National Radio Astronomy Observatory, Socorro, NM; “Ultradeep Imaging of Faint Galaxies,” July.
- 1989 Princeton University Ph.D. Thesis Seminar, Princeton, NJ; “The Night Sky at Low Surface Brightness: Optical Cirrus Clouds and Distant Field Galaxies,” May.
- 1992 Indian Institute of Astrophysics, Bangalore, India; “Optical Properties of IRAS 100 Micron Cirrus Clouds,” September.
- 1992 National Centre for Radio Astronomy, Pune, India; “Evolution of Faint Blue Field Galaxies,” September.
- 1992 Raman Research Institute, Bangalore, India; “Using *HST* to Probe the Core of 47 Tuc,” September.
- 1992 Rutgers University, New Brunswick, NJ; “Faint Blue Galaxies,” July.
- 1992 Tata Institute of Fundamental Research, Bombay, India; “The Nature and Evolution of Faint Field Galaxies,” September.
- 1993 Indian Institute of Astrophysics, Bangalore, India; “Faint Blue Field Galaxies,” August.
- 1993 Pennsylvania State University, State College, PA; “Faint Blue Galaxies,” July.
- 1993 Raman Research Institute, Bangalore, India; “Near Infrared Tully-Fisher Relation in the Coma Supercluster,” August.

- 1994 University of California, San Diego, CA; “*HST* Studies of Dense Globular Cluster Cores,” November.
- 1994 University of Maryland, College Park, MD; “Near Infrared Tully-Fisher Relation in the Coma Supercluster,” February.
- 1995 Lawrence Livermore National Laboratory, Livermore, CA; “*HST* Studies of the Central Regions of Dense Globular Clusters,” February.
- 1995 Steward Observatory/National Optical Astronomy Observatories, Tucson, AZ; “Using *HST* to Study Dense Globular Cluster Cores,” October.
- 1995 University of Nevada, Las Vegas, NV; “Density Profiles and Stellar Populations of Dense Globular Cluster Cores,” September.
- 1995 University of Washington, Seattle, WA; “Density Profiles and Stellar Populations of Dense Globular Cluster Cores,” November.
- 1996 Cerro-Tololo Interamerican Observatory, La Serena, Chile; “Evolution and Internal Kinematics of Distant Field Galaxies,” February.
- 1997 National Radio Astronomy Observatory, Charlottesville, VA; “Stars in Local Group Suburbia: Red Giants in M31’s Outer Spheroid and a Search for Stars in the Magellanic Stream,” October.
- 1997 National Radio Astronomy Observatory, Socorro, NM; “Evolution and Internal Kinematics of Distant Field Galaxies,” June.
- 1997 Ohio State University, Columbus, OH; “Evolution and Internal Kinematics of Distant Field Galaxies,” November.
- 1997 Pontificia Universidad Catolica, Santiago, Chile; “El Enigma de las Galaxias Azules Debiles,” April.
- 1997 Seoul National University, Seoul, Korea; “Faint Blue Galaxies: Evolution and Internal Kinematics,” February.
- 1997 Yonsei University, Seoul, Korea; “Near Infrared Tully-Fisher Relation in Coma” and “Red Giants in M31’s Outer Spheroid,” February.
- 1998 Raman Research Institute, Bangalore, India; “Optical Cirrus,” September.
- 1999 Herzberg Institute of Astrophysics, Victoria, BC, Canada; “Optical Cirrus,” March.
- 1999 Observatories of the Carnegie Institution of Washington, Pasadena, CA; “The Outer Stellar Halo of M31 and the Milky Way Galaxy,” October.
- 1999 Observatorio Nacional, Rio de Janeiro, Brazil; “Studies of M31’s Stellar Halo,” August.
- 1999 University of British Columbia, Vancouver, BC, Canada; “Local Group Suburbia,” March.
- 1999 University of California at Berkeley, Berkeley, CA; “Optical Cirrus,” February.
- 1999 University of Hawaii, Institute for Astronomy, Honolulu, HI; “Studies of M31’s Stellar Halo,” September.
- 2000 Arizona State University, Tempe, AZ; “Dissecting M31’s Stellar Halo with the Keck Telescope,” October.
- 2000 Columbia University, New York, NY; “Stars in the Outskirts of the Local Group,” March.
- 2000 Institute for Advanced Study, Princeton, NJ; “Keck Studies of M31’s Stellar Halo,” July.
- 2000 Lawrence Livermore National Laboratory (IGPP), Livermore, CA; “Dissecting M31’s Stellar Halo with the Keck Telescope,” November.
- 2000 University of Florida, Gainesville, FL; “Dissecting M31’s Stellar Halo with the Keck Telescope,” September.

- 2000 University of Pittsburgh, Pittsburgh, PA; "Stars in the Outskirts of the Local Group," March.
- 2000 Yale University, New Haven, CT; "Stars in the Outskirts of the Local Group," July.
- 2001 Space Telescope Science Institute, Baltimore, MD; "The M31 Subgroup: A Fossil Record of Galaxy Formation and Evolution," March.
- 2001 University of Virginia, Charlottesville, VA; "The M31 Subgroup: A Fossil Record of Galaxy Formation and Evolution," March.
- 2002 California Institute of Technology, Pasadena, CA; "M31's Stellar Halo and Dwarf Galaxy Building Blocks," October.
- 2002 Harvard-Smithsonian Center for Astrophysics, Cambridge, MA; "Dissecting the Stellar Populations of M31 and its Dwarf Companions with the Keck Telescope," June.
- 2002 New York University, New York, NY; "Galaxies, Near and Far: Building Blocks of the Universe," September.
- 2002 New York University, New York, NY; "M31: A Fossil Record of Galaxy Formation and Evolution," September.
- 2002 University of British Columbia, Vancouver, BC, Canada; "Galaxies, Near and Far: Building Blocks of the Universe," September.
- 2002 University of California at San Diego, San Diego, CA; "Keck Spectroscopy of Red Giants in M31 and its Dwarf Companions," April.
- 2002 University of California, Santa Barbara, CA; "The Stellar Halo of the Andromeda Spiral Galaxy and Dwarf Galaxy Building Blocks," December.
- 2002 University of Victoria, Victoria, BC, Canada; "Galaxies, Near and Far: Building Blocks of the Universe," October.
- 2002 University of Washington, Seattle, WA; "Galaxies, Near and Far: Building Blocks of the Universe." November.
- 2003 Herzberg Institute of Astrophysics/Dominion Astrophysical Observatory, Victoria, BC, Canada; "The Halo of M31 and Dwarf Galaxy Building Blocks," March.
- 2003 University of Washington, Seattle, WA; "Stellar Halo of the Andromeda Spiral Galaxy and Dwarf Galaxy Building Blocks," February.
- 2004 Institute for Advanced Study, Princeton, NJ; "The Assembly of M31's Stellar Halo from Dwarf Galaxy Building Blocks," October.
- 2004 University of California at Santa Cruz, Santa Cruz, CA; "The Assembly of M31's Stellar Halo from Dwarf Galaxy Building Blocks," November.
- 2005 Canada-France-Hawaii Telescope, Waimea, HI; "The Extended Stellar Halo of Andromeda: Dynamics, Structure, and Chemical Abundance," June.
- 2005 Royal Observatory of Edinburgh, Edinburgh, UK; "The Andromeda Spiral Galaxy," July.
- 2005 University of California at Davis, Davis, CA; "The Stellar Halo of the Andromeda Spiral Galaxy and Dwarf Galaxy Building Blocks," April.
- 2005 University of California at Irvine, Irvine, CA; "The Stellar Halo of the Andromeda Spiral Galaxy," March.
- 2006 California Institute of Technology, Pasadena, CA; "The Extended Stellar Halo of the Andromeda Spiral Galaxy," March.
- 2006 Harvard-Smithsonian Center for Astrophysics (Institute for Theory and Computation), Cambridge, MA; "The Extended Metal-Poor Stellar Halo of the Andromeda Spiral Galaxy," May.

- 2006 Space Telescope Science Institute, Baltimore, MD; "The Stellar Halo of the Andromeda Spiral Galaxy," January.
- 2006 University of California Berkeley (Theoretical Astrophysics Center), Berkeley, CA; "M31's Extended Stellar Halo and Dwarf Satellite Galaxies," August.
- 2006 University of California San Diego (Center for Astrophysics and Space Sciences), La Jolla, CA; "The Extended Stellar Halo and Dwarf Satellites of the Andromeda Spiral Galaxy," October.
- 2007 Herzberg Institute of Astrophysics, Victoria, BC, Canada; "The Extended Stellar Halo of the Andromeda Spiral Galaxy and its Dwarf Satellites," July.
- 2007 Massachusetts Institute of Technology, Cambridge, MA; "The Extended Stellar Halo of the Andromeda Spiral Galaxy and its Dwarf Satellites," April.
- 2007 University of California Santa Cruz, Santa Cruz, CA (mini-FLASH); "The Extended Stellar Halo and Dwarf Satellites of Andromeda," July.
- 2008 Department of Physics, Durham University, Durham, United Kingdom; "The Extended Stellar Halo of the Andromeda Spiral Galaxy and its Dwarf Satellites: Results from the SPLASH Survey," August.
- 2008 Department of Physics, Oxford University, Oxford, United Kingdom; "The Extended Stellar Halo of the Andromeda Spiral Galaxy and its Dwarf Satellites: Results from the SPLASH Survey," August.
- 2008 Institute of Astronomy, Cambridge University, Cambridge, United Kingdom; "The Extended Stellar Halo of the Andromeda Spiral Galaxy and its Dwarf Satellites: Results from the SPLASH Survey," August.
- 2008 Lawrence Livermore National Laboratory, Livermore, CA; "The SPLASH Survey and Hierarchical Galaxy Formation," October.
- 2008 Louisiana State University, Baton Rouge, LA; "The Extended Stellar Halo and Dwarf Satellites of Andromeda," March.
- 2008 Ohio State University, Columbus, OH; "Local Group lunch" (special seminar with Kathryn Johnston), April.
- 2008 Ohio University, Athens, OH; "The Extended Stellar Halo and Dwarf Satellites of Andromeda," April.
- 2009 American Museum of Natural History, New York, NY; "Andromeda the Cannibal: The SPLASH Survey and Prospects with TMT," April.
- 2009 Columbia University, New York, NY; "Andromeda the Cannibal: The SPLASH Survey and Prospects with TMT," April.
- 2009 San Francisco State University, Astronomy department, San Francisco, CA; "Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation," September.
- 2009 Stanford University/Kavli Institute for Particle Astrophysics and Cosmology, Stanford, CA; "Andromeda the Cannibal: The SPLASH Survey and Prospects with TMT," March.
- 2009 Tata Institute for Fundamental Research, Astronomy department, Mumbai, India; "Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation," August.
- 2009 University of California Irvine, Physics and Astronomy department, Irvine, CA; "Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation," November.

- 2010 South African Astronomical Observatory, Cape Town, South Africa; “Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation,” April.
- 2010 University of Colorado Boulder, Astronomy department, Boulder, CO; “Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation,” March.
- 2010 University of Nevada Las Vegas, Astronomy department, Las Vegas, NV; “Andromeda the Cannibal: The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation,” April.
- 2010 University of Hawaii, Honolulu, HI; “Cannibalism and Forensics in our Galactic Neighborhood”, October.
- 2010 Kavli Institute of Astronomy and Astrophysics, Beijing, China; “Using Andromeda as a Testbed of Hierarchical Galaxy Formation”, December.
- 2011 Observatorio Nacional, Rio de Janeiro, Brazil; “The Stellar Halo of Andromeda”, February.
- 2011 National Science Foundation (Astronomical Division), Washington DC; “SPLASH: The Spectroscopic and Photometric Landscape of Andromeda’s Stellar Halo”, March.
- 2011 University of San Francisco, San Francisco, CA; “SPLASH: The Spectroscopic and Photometric Landscape of Andromeda's Stellar Halo”, March.
- 2011 Sonoma State University, Rohnert Park, CA; “The Galaxy Next Door”, March.
- 2011 University of California at Los Angeles, Los Angeles, CA; “Andromeda's Halo: Ghosts of Satellites Past”, March.
- 2011 University of Massachusetts, Amherst, MA; “Cannibalism and Forensics in our Galactic Neighborhood”, April.
- 2011 Smith College, Northampton, MA; “Our Place in the Cosmos”, April.
- 2011 University of California at Davis, Davis, CA; “The SPLASH Survey and Hierarchical Galaxy Formation”, May.
- 2011 Shanghai Astronomical Observatory, Shanghai, China; “Past and Present Satellites of Andromeda”, June.
- 2012 University of California at Davis, Davis, CA; “Kinematics and Stellar Populations of the Structural Subcomponents in Andromeda’s Inner Regions: Keck Spectra and HST Images”, February.
- 2012 Canada-France-Hawaii Telescope headquarters, Waimea, HI; “Dissecting Andromeda’s Enigmatic Inner Spheroid: The SPLASH and PHAT Surveys”, February.
- 2012 Columbia University, Astronomy department pizza lunch, New York, NY; “The SPLASH Survey”, April.
- 2012 Department of Astrophysics, Universidad Complutensia Madrid, Madrid, Spain; “Kinematics and Stellar Populations of the Structural Subcomponents in Andromeda's Inner Regions”, June.
- 2012 Research Center for Astronomy, Academy of Athens, Athens, Greece; “Our Neighbor M31: A Close-up View of Galaxy Formation”, June.
- 2012 Satyendra Nath Bose National Centre for Basic Sciences, Kolkata, India; “Our Place in the Cosmos: The Lives and Times of Galaxies”, November.
- 2013 Institute for Advanced Study, Princeton, NJ; “The Andromeda Galaxy and its Satellites: A Close-up View of Galaxy Formation”, February.

- 2013 University of Utah, Salt Lake City, UT; “The Andromeda Galaxy: Hierarchical Galaxy Formation, Stellar Populations, and the Interstellar Medium”, April.
- 2013 Tohoku University, Sendai, Japan; “The Andromeda Galaxy: Hierarchical Galaxy Formation, Stellar Populations, and the Interstellar Medium”, June.
- 2013 Institute for the Physics and Mathematics of the Universe (IPMU), Tokyo, Japan; “The Andromeda Galaxy: Hierarchical Galaxy Formation, Stellar Populations, and the Interstellar Medium”, June.
- 2013 Department of Astronomy, Ohio State University, Columbus, OH; “The Outskirts of Galaxies”, October.
- 2013 Columbia University, Astronomy department pizza lunch, New York, NY; “Dark matter in Virgo Cluster dEs and the HALO7D Survey”, November.
- 2014 Kavli Institute of Astronomy/Astrophysics, Peking University, Beijing, China; “The Outskirts of Galaxies”, August.
- 2014 Thirty-Meter Telescope project office, Pasadena, CA; “Getting Ready for TMT by Pushing the Keck Telescope to its Limits”, September.
- 2014 Institute for Astronomy, University of Hawaii, Manoa, HI; “The Dynamic and Mysterious Outskirts of Galaxies”, October.
- 2014 Department of Chemistry and Biochemistry, University of California Santa Cruz, Santa Cruz, CA; 2014 Kenny Ikei Memorial Lecture: “Galaxies and the Periodic Table of Elements”, October.
- 2015 Harvard-Smithsonian Center for Astrophysics (Institute for Theory and Computation), Cambridge, MA; “Looking at and Through the Milky Way,” February.
- 2015 Harvard-Smithsonian Center for Astrophysics (Institute for Theory and Computation), Cambridge, MA; “Dynamics of Galaxies Big and Small”, February.
- 2015 UCSC Department of Astronomy & Astrophysics, FLASH talk, Santa Cruz, CA; “Dynamics of Galaxies Big and Small”, March.
- 2015 Swinburne University of Technology, Centre for Astrophysics and Supercomputing, Galaxy Evolution and Modeling seminar, Melbourne, Australia; “Dynamics of Galaxies Big and Small”, April.
- 2016 UCSC Department of Astronomy & Astrophysics, FLASH talk, Santa Cruz, CA; “The UCSC Science Internship Program and the Global SPHERE Network”, January.
- 2016 Monterey Institute for Research in Astronomy, Monterey, CA; “The Universe of Galaxies and STEM Research Opportunities for Young People”, May.

Public Lectures/Presentations

- 1989 Princeton University Public Lecture; “The Universe of Galaxies,” February.
- 1989 Amateur Astronomers Club, Holmdel, NJ; “Studying Very Distant Galaxies with the Help of Deep CCD Images,” April.
- 1990 Amateur Astronomers Club, Princeton, NJ; “Galaxy Evolution,” July.
- 1991 Rotary Club, Calcutta, India; “Olbers’ Paradox,” July.
- 1991 Friends of the Institute for Advanced Study; “The Unique Capabilities of the *Hubble Space Telescope*,” September.
- 1992 Rutgers University, Physics seniors; “Studying the Past History of the Universe of Galaxies,” May.

- 1993 Jadavpur University, Calcutta, India; "Optical Cirrus," July.
- 1994 University of Calcutta, Science College, Calcutta, India; "Galaxy Evolution," August.
- 1995 Santa Cruz Astronomy Club, Santa Cruz, CA; "The Evolution of Galaxies," March.
- 1996 Yosemite National Park, LeConte Memorial; "Galaxies: Wildlife of the Universe," August.
- 1997 Lick Summer Lecture Series, Mount Hamilton, CA; "The Universe of Galaxies Viewed through a Time-Machine," August.
- 1998 Lick Summer Lecture Series, Mount Hamilton, CA; "The Universe of Galaxies through a Time-Machine," July.
- 1998 Saha Institute for Nuclear Physics, Calcutta, India; "Interstellar Dust," August.
- 1999 Lick Summer Lecture Series, Mount Hamilton, CA; "The Universe of Galaxies," July.
- 1999 Yosemite National Park, LeConte Memorial (two presentations); "A Hike through the Universe of Galaxies" and "A Journey through the Universe in a Time-Machine," September.
- 1999 Saha Institute for Nuclear Physics, Calcutta, India; "Standard Candles, Standard Rulers and the Fate of the Universe," December.
- 2000 Minolta Planetarium, De Anza College, Cupertino, CA; "Telescopes as Time-Machines," March.
- 2000 Adaptive optics demos and presentations (with Patrik Jonsson) at two special events at the San Francisco Metreon and San Jose Tech Museum; organized by the Bay Area Economic Forum, May.
- 2000 Lick Summer Lectures (Music of the Spheres Series), Mount Hamilton, CA; "The Universe of Galaxies through a Time-Machine," July.
- 2001 Kiwanis Club, Watsonville, CA; "Galaxy Evolution," talk and slide show, April.
- 2001 Lick Summer Lectures (Music of the Spheres Series), Mount Hamilton, CA; "The Birth and Evolution of Galaxies: Time Machines, Cannibalism, and Chemical Abuse," June.
- 2002 Chaminade, Santa Cruz, CA; guided star-gazing and presentation for Lend Lease Foundation (with Jason Melbourne and Marla Geha), May.
- 2002 Lick Summer Lectures (Music of the Spheres Series), Mount Hamilton, CA; "Birth and Evolution of Galaxies: Time Machines, Cannibalism and Chemical Pollution," June.
- 2002 Dominion Astrophysical Observatory's "Centre of the Universe," Victoria, BC, Canada; "Galaxies, Time, and Light," August.
- 2003 Royal Astronomical Society of Canada, Victoria, BC Centre; "Galaxies, Time and Light," March.
- 2003 Lick Summer Lectures (Music of the Spheres Series), Mount Hamilton, CA; "The Milky Way, Schroedinger's Cat, and You," July.
- 2003 Indo-American Community Service Center, Santa Clara, CA; "History of the Universe: The Milky Way, Schroedinger's Cat, and You," October.
- 2003 Lecture for science policy makers and amateur astronomers, Pretoria, South Africa; "The Milky Way, Schroedinger's Cat, and You," December.
- 2004 Lecture for NASA astronauts, Woods Hole, MA; "The Milky Way, Schroedinger's Cat, and You," July.

- 2004 Lick Summer Lectures (Music of the Spheres Series), Mount Hamilton, CA; “The Milky Way, Schroedinger’s Cat, and You,” August.
- 2004–2005 Prepared deep Keck images of distant galaxies for Mauna Kea Astronomy Education Center, Hilo, HI/coordinator: Cheryl Braunstein
- 2005 Guest speaker, Santa Cruz County Medical Society meeting, Aptos, CA; “The Milky Way, Schroedinger’s Cat, and You,” June.
- 2005 Music of the Spheres Lectures, Mount Hamilton, CA; “The Milky Way, Schroedinger’s Cat, and You,” June.
- 2005 Keck Observatory public lecture, Waimea, HI; “The Milky Way, Schroedinger’s Cat, and You,” September.
- 2005 Hosted a group of 25 from the Santa Cruz Lifelong Learners, UCSC, Santa Cruz, CA/coordinator: Sandra Brauner; A Day in the Life of an Astronomer, October.
- 2005 Lecture for the Willow Glen Rotary Club, San Jose, CA/coordinator: Dan Foss; “Galaxies—Building Blocks of the Universe,” December.
- 2006 Faculty lecture at UCSC extension, Osher Lifelong Learning Institute, Cupertino, CA/coordinator: Brendan Rawson; “The Milky Way, Schroedinger’s Cat, and You,” February.
- 2006 Physics Cafe (Q/A session for 20 adults and children—with Matthias Steinmetz), Aspen, CO/coordinator: Kevin Ward, February.
- 2006 Lecture for Santa Cruz Astronomy Club, Santa Cruz, CA/coordinator: Doreen Devorah; “The Milky Way, Schroedinger’s Cat, and You,” March.
- 2006 Physics is for Kids (lecture and Q/A session for 40 children and adults—with Kathryn Johnston—telecast on local channel), Aspen, CO/coordinator: Kevin Ward; The Formation of Galaxies, June.
- 2006 Music of the Spheres Lectures, Mount Hamilton, CA; “A Journey Back to the Big Bang,” August.
- 2007 Keynote speaker at Fremont Peak Observatory Association annual “Star b Que” to 250 amateur astronomers from all over Northern California, San Juan Bautista, CA/coordinator: Doug Smith; “A Journey Back to the Big Bang,” August.
- 2007 Music of the Spheres Lectures, Mount Hamilton, CA; “A Journey Back to the Big Bang,” August.
- 2007 Lecture to Gilroy Sunrise Rotary, Gilroy, CA (audience of about 30)/ coordinator: Roy Johnson; Journey Back to the Big Bang; November.
- 2007 Journey Back to the Big Bang; UCO/Lick staff retreat, Santa Cruz, CA, November.
- 2008 Lecture to Willow Glen Rotary, San Jose, CA (audience of about 20)/ coordinator: Mike Anderson; Journey Back to the Big Bang; May.
- 2008 Lecture and participation in Tesla coil demo at Maker Faire, San Mateo, CA (audiences of about 50)/ coordinators: Terry Schalk & Hartmut Sadrozynski (SCIPP); Making of Galaxies and the Universe (an astronomer’s view); May.
- 2008 Music of the Spheres lectures, Mount Hamilton, CA; A Journey Back to the Big Bang; June.
- 2008 Lecture to Mount Diablo Astronomical Society, Concord, CA (audience of about 40)/coordinator: Marni Berendsen; A Journey Back to the Big Bang; June.
- 2008 Lecture at SCIPP Quarknet teachers workshop at UCSC, Santa Cruz, CA (about 15 high school teachers and students)/coordinator: Hartmut Sadrozynski; A Journey Back to the Big Bang; June.

- 2009 Use of Keck/LRIS images of the M31 dwarf satellites Peg and Cas (aka And VI and VII) from the Grebel & Guhathakurta (1999, ApJL) article in the exhibition “Cosmos” at the Astronomical Observatory of Paris scheduled to run from June–November 2009; coordinator: Ange’lique Durand (photo librarian, Palais de la de’couverte—scientific and educational museum, Avenue Franklin Delano Roosevelt, 75008 Paris), April.
- 2009 Material for planetarium show segment on Keck Observatory research on the Milky Way and Andromeda, Imiloa Astronomy Center, Hilo, HI; coordinators: Jack White (script writer/producer, Sky Skan production company) and Ashley Yeager (W.M. Keck Observatory, public information officer), April.
- 2009 Astronomy slides and narrative for Bach concert at the Santa Cruz Baroque Festival (III. Cosmos: The Art of the Fugue), Santa Cruz, CA; coordinator: Linda Burman-Hall—narrator: Evan Kirby, April.
- 2009 Music of the Spheres lectures, Mount Hamilton, CA; Our Place in the Cosmos, June.
- 2009 Summer Visitor Program lectures, Mount Hamilton, CA; Our Place in the Cosmos, July.
- 2009 Guest lecture for Ambuja Group employees, Vishwakarma auditorium, Kolkata, India; audience of about 50/coordinator: Harsh Neotia (managing director); “Our Place in the Cosmos,” August.
- 2009 Use of Keck/LRIS image of the M31 dwarf satellite Peg (aka And VI) from the Grebel & Guhathakurta (1999, ApJL) article in the course “Exploring Galaxies and the Cosmos” in the online graduate degree program “Swinburne Astronomy Online” at Swinburne University of Technology, Australia; December.
- 2010 Participation in Tesla coil demo at Valencia Elementary School, Aptos, CA (audience of about 150)/ coordinators: Terry Schalk & Hartmut Sadrozinski (SCIPP); April.
- 2010 Lecture on “Our Place in the Cosmos” for University Forum, University of Nevada Las Vegas, NV; April.
- 2010 Summer Visitor Program lectures, Mount Hamilton, CA; Our Place in the Cosmos, August.
- 2010 Participation in Tesla coil demo at Castilleja School, Palo Alto, CA (audience of about 500)/coordinators: Terry Schalk & Hartmut Sadrozinski (SCIPP); November.
- 2011 Slide presentation for UCSC Scholarship Benefit Dinner/coordinator: Jeff Rockwell (UCSC Special Events); February.
- 2011 Career day presentations, Silver Creek High School, San Jose, CA (audience of four groups of 150–200 students each)/coordinator: Ka-Ling Scoppettone and Imani Butler (Silver Creek HS); April.
- 2011 Music of the Sphere lectures, Mount Hamilton, CA; Astronomy and Cosmology (not to be confused with Astrology, Gastronomy and Cosmetology), June.
- 2011 Talk at the Santa Cruz Astronomy Club, Santa Cruz, CA; Astronomy and Cosmology (not to be confused with Astrology, Gastronomy and Cosmetology), September.
- 2011 Talk at the San Jose Astronomical Association, San Jose, CA; Astronomy and Cosmology (not to be confused with Astrology, Gastronomy and Cosmetology), October.
- 2011 Presentation to the Society of Physics Students, UCSC, Santa Cruz, CA; Our Place in the Cosmos; November.

- 2012 Keynote presentation to parents of Warm Springs Elementary School students at their Second Annual Science Alliance Showcase (audience of about 750), Fremont, CA; coordinator: Clyde Mann; Our Life in the Universe; March.
- 2012 Talk at the Birla Industrial and Technological Museum, Kolkata, India; coordinator: Emdadul Islam; Our Place in the Cosmos; May.
- 2012 Music of the Sphere lectures, Mount Hamilton, CA; Mergers and Acquisitions: The Lives and Times of Galaxies; June.
- 2012 Talk at the Birla Industrial and Technological Museum, Kolkata, India; coordinator: Subhashish Das; Black Holes and Telescopes as Time Machines; November.
- 2013 Talk at the Campbell Rotary, Campbell, CA; Our Place in the Cosmos; May.
- 2013 Talk at the Los Altos Rotary, Los Altos, CA; Our Place in the Cosmos; August.
- 2013 Music of the Sphere lectures, Mount Hamilton, CA; Island Universes; September.
- 2013 Panel discussion for the Society of Physics Students, UCSC, Santa Cruz, CA; topic: Applying To and Getting Through Graduate School; October.
- 2013 Talk at the San Jose Rotary, San Jose, CA; Our Place in the Cosmos; December.
- 2014 Presentation (with Katie Hamren)/interactive demos at 3rd Friday event “Magic”, Santa Cruz Museum of Art & History, Santa Cruz, CA; Magic of the Universe: Time Machines, Galaxy Collisions, Black Holes, and Stardust; coordinator: Stacey Marie Garcia; January.
- 2014 Talk at the Watsonville Rotary, Watsonville, CA; Our Place in the Cosmos; February.
- 2014 Talk at the Saratoga Rotary, Saratoga, CA; Our Place in the Cosmos; March.
- 2014 Talk at Griffith Observatory to the Friends of the Observatory (FOTO) group, Los Angeles, CA; Are Galaxies Island Universes?; May.
- 2014 Summer Visitor Program lectures, Mount Hamilton, CA; Are Galaxies Island Universes?; June.
- 2014 Talk to high school intern group in Jill Helms’ Stanford STARS program, Stanford, CA; Are Galaxies Island Universes?; June.
- 2014 Talk to a group of high school students and their parents, Gillette, WY; Constellations of Stars and the Universe of Galaxies; July.
- 2014 Talk at the Santa Clara Rotary, Santa Clara, CA; Our Place in the Cosmos; September.
- 2015 Presentation, interactive demos, and video at 3rd Friday event “Magic”, Santa Cruz Museum of Art & History, Santa Cruz, CA; Magic of the Universe: Time Machines, Galaxy Collisions, Black Holes, and Stardust; coordinator: Nora Grant; January.
- 2015 Discussion about UCSC’s programs for high school students and campus tour for a group of 20 girls from Alvarez High School, Salinas, CA at the Conference for Undergraduate Women in Physics, UCSC/coordinators: Amita Kuttner, Angie Wolfgang (both at UCSC), and Bao Nguyen (Alvarez HS); January.
- 2015 Member of the professional career panel at the Highlight to the Future college and career conference, Watsonville High School, Watsonville, CA (audience of ~30 students and parents)/coordinator: Amanda Sandoval Estrada (UCSC EPC); February.
- 2015 Astronomy slides and narrative for Bach concert at the Santa Cruz Baroque Festival (The Birth of the Baroque, 17th Century, Age of Galileo), Santa Cruz, CA; coordinator: Linda Burman-Hall—narrator: Bill Mathews; February.

- 2015 Talk at Silver Creek Women’s Club, San Jose, CA; We Are Stardust; March.
 2015 Lunchtime public talk at the San Jose Museum of Art, San Jose, CA; We Are Stardust; coordinator: Rory Padeken (assistant curator); May.
 2015 Talk at Rakesh and Dipti Mathur’s house to an audience of ~30 Crystal Springs Uplands School students and parents, Saratoga, CA; The Universe of Galaxies; June.
 2015 Presentation about astronomy simulation and fly-through videos in Diana Thater’s Beta Space exhibition at a members’ evening event at the San Jose Museum of Art, San Jose, CA; co-presenter: Rory Padeken (assistant curator); June.
 2015 Evenings with the Stars lectures, Mount Hamilton, CA; We Are Stardust; June.
 2015 Lecture for Italian group, Fano, Italy; The Universe of Galaxies (L’universo del galassie); September.
 2015 Lecture for Atheist Community of San Jose, San Jose, CA/coordinator: Lyn Chiu; We Are Stardust; November.
 2015 Lecture for Santa Cruz Astronomy Club, Santa Cruz, CA/coordinator: Jeff Gose; The Universe of Galaxies; November.
 2016 Lecture at Evergreen Valley College, Santa Cruz, CA/coordinators: Celso Batalha & Nargis Adham; The Universe of Galaxies and STEM Research Opportunities for Young People; March.
 2016 Presentation and interactive demos (with Justin Brown, Eric Gentry and Alexa Villaume) at 3rd Friday event “The Cosmos,” Santa Cruz Museum of Art & History, Santa Cruz, CA; The Magic of the Universe; coordinator: Nora Grant; May.
 2016 Evenings with the Stars lectures, Mount Hamilton, CA; Galaxies: Building Blocks of the Universe; July.

Service to the Staff or Editorial Board of Scholarly Journals, or Other Publications

- 1990–1996 Referee, *Astronomical Journal*, American Institute of Physics
 1991–1999 Referee, *Astrophysical Journal Letters*, University of Chicago
 1994–1997 Referee, *Astrophysical Journal*, University of Chicago
 1998–1999 Referee, *Astronomy & Astrophysics*, European Journal
 2003 Referee, *Publications of the Astronomical Society of the Pacific*
 2004 Referee, *Astrophysical Journal Letters*
 2007 Referee, *Monthly Notices of the Royal Astronomical Society*

Membership and Activities in Professional Associations and Collaborations

- 1988– Member, American Astronomical Society (AAS)
 1990–1993 Member, Cosmic Background Explorer (COBE) Science Team
 1991–1993 Member, Indian Astronomical Society
 1991–1994 Member, IRAM Key Project to study fine structure of molecular cirrus clouds
 1992–1994 Associate Investigator, JHU group, on *HST* Medium-Deep Survey
 1994 Member, American Association for the Advancement of Science (AAAS)
 1999– Member, DEEP2/AEGIS/DEEP3 Teams
 1999–2003 Member, Center for Adaptive Optics (CfAO), UCSC
 1999–2003 Member, Deep Lens Survey (DLS) Collaboration

- 2002– Lead, Spectroscopic and Photometric Landscale of Andromeda’s Stellar Halo (SPLASH) Collaboration
- 2007– Member, PLUS (Participation in LAMOST US) Collaboration
- 2009– Member, Panchromatic Hubble Andromeda Treasury (PHAT) Collaboration
- 2010– Member, Large Synoptic Survey Telescope (LSST) Science Collaboration on Milky Way Structure and Local Volume
- 2012– Member, Next Generation Virgo Survey (NGVS) Collaboration
- 2013– Member, Thirty-Meter Telescope (TMT) International Science Definition Team on the Milky Way and Nearby Galaxies
- 2013– Member, Hubble Space Telescope Proper Motion (HSTPROMO) Collaboration
- 2013– Lead, Halo Assembly in Lambda-CDM: Observations in Seven Dimensions (HALO7D) Collaboration
- 2014– Member, Maunakea Spectroscopic Explorer (MSE; formerly ngCFHT) International Science Team
- 2015– Member, WFIRST (Wide-Field InfraRed Survey Telescope) Infrared Nearby Galaxy Survey (WINGS) Team

TEACHING (UCSC)

Quarter/Year Name		Title of Class	Total Enrollment	Shared Y/N
Fall 1994	Astronomy 297	Independent Study	1	No
Winter 1995	Astronomy 297	Independent Study	1	No
Spring 1995	Astronomy 13	Galaxies, Cosmology & High-Energy Astrophysics	15	Yes
	Astronomy 297	Independent Study	2	No
Fall 1995	Astronomy 2	Overview of the Universe	115	Yes
	Astronomy 297	Independent Study	2	No
Winter 1996	Astronomy 297	Independent Study	2	No
Spring 1996	Astronomy 5	Formation & Evolution of the Universe	35	No
	Astronomy 299	Thesis Research	1	No
	Astronomy 301	Supervised Teaching Experience	1	No
Fall 1996	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Winter 1997	Astronomy 5	Formation & Evolution of the Universe	38	No
	Astronomy 299	Thesis Research	3	No
	Astronomy 301	Supervised Teaching Experience	1	No
Spring 1997	Astronomy 299	Thesis Research	3	No
Summer 1997	Astronomy 299	Thesis Research	1	No
Fall 1997	Astronomy 299	Thesis Research	3	No
Winter 1998	Astronomy 299	Thesis Research	3	No
Spring 1998	Astronomy 297	Independent Study	1	No

	Astronomy 299	Thesis Research	2	No
Fall 1998	Astronomy 297	Independent Study	1	No
	Astronomy 297	Independent Study	3	No
Winter 1999	Astronomy 5	Formation & Evolution of the Universe	44	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	3	No
Spring 1999	Astronomy 13	Galaxies, Cosmology & High-Energy Astrophysics	28	No
	Astronomy 297	Independent Study	2	No
	Astronomy 299	Thesis Research	2	No
Fall 1999	Astronomy 297	Independent Study	2	No
	Astronomy 299	Thesis Research	2	No
Winter 2000	Astronomy 297	Independent Study	2	No
	Astronomy 299	Thesis Research	2	No
Spring 2000	Astronomy 13	Galaxies, Cosmology & High-Energy Astrophysics	29	No
	Astronomy 292	Seminar	16	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Summer 2000	Astronomy 299	Thesis Research	1	No
Fall 2000	Astronomy 297	Independent Study	2	No
	Astronomy 299	Thesis Research	2	No
Winter 2001	Astronomy 2	Overview of the Universe	163	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	3	No
	Astronomy 301	Supervised Teaching Experience	2	No
Spring 2001	Astronomy 297	Independent Study	2	No
	Astronomy 299	Thesis Research	2	No
Fall 2001	Astronomy 2	Overview of the Universe	133	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Winter 2002	Astronomy 199	Tutorial	2	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Spring 2002	Astronomy 299	Thesis Research	2	No
Fall 2002	Astronomy 299	Thesis Research	2	No
Winter 2003	Astronomy 299	Thesis Research	2	No
Spring 2003	Astronomy 299	Thesis Research	2	No
Fall 2003	Astronomy 2	Overview of the Universe	157	No
	Astronomy 299	Thesis Research	1	No
Winter 2004	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
	Physics 199	Tutorial	1	No
Spring 2004	Astronomy 299	Thesis Research	1	No
	Physics 199	Tutorial	1	No
Fall 2004	Astronomy 2	Overview of the Universe	176	No

	Astronomy 297	Independent Study	1	No
Winter 2005	Astronomy 297	Independent Study	3	No
Spring 2005	Astronomy 297	Independent Study	1	No
Fall 2005	Astronomy 2	Overview of the Universe	227	No
Winter 2006	Astronomy 297	Independent Study	2	No
Spring 2006	Physics 199	Tutorial	1	No
	Astronomy 297	Independent Study	2	No
Fall 2006	Astronomy 2	Overview of the Universe	138	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
Winter 2007	Astronomy 2	Overview of the Universe	127	No
	Astronomy 297	Independent Study	2	No
Spring 2007	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
	Physics 199	Tutorial	2	No
Fall 2007	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Winter 2008	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Spring 2008	Astronomy 199	Tutorial	1	No
	Astronomy 299	Thesis Research	3	No
Fall 2008	Astronomy 2	Overview of the Universe	285	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	2	No
Winter 2009	Astronomy 299	Thesis Research	2	No
Spring 2009	Astronomy 299	Thesis Research	2	No
Fall 2009	Astronomy 1	Introduction to the Cosmos	110	No
	Astronomy 299	Thesis Research	1	No
Winter 2010	Astronomy 299	Thesis Research	1	No
Spring 2010	Astronomy 299	Thesis Research	1	No
Fall 2010	Astronomy 1	Introduction to the Cosmos	192	No
	Astronomy 299	Thesis Research	1	No
Winter 2011	Astronomy 299	Thesis Research	1	No
Spring 2011	Astronomy 299	Thesis Research	1	No
Fall 2011	Astronomy 1	Introduction to the Cosmos	193	No
	Astronomy 299	Thesis Research	1	No
Winter 2012	Astronomy 299	Thesis Research	1	No
Spring 2012	Astronomy 299	Thesis Research	1	No
Fall 2012	Astronomy 1	Introduction to the Cosmos	298	No
	Astronomy 299	Thesis Research	1	No
Winter 2013	Astronomy 199	Tutorial	2	No
	Astronomy 299	Thesis Research	1	No
Spring 2013	Astronomy 199	Tutorial	2	No
	Astronomy 299	Thesis Research	1	No
Fall 2013	Astronomy 2	Overview of the Universe	181	No
	Astronomy 299	Thesis Research	1	No
	Astronomy 297	Independent Study	1	No
Winter 2014	Astronomy 299	Thesis Research	1	No

	Astronomy 297	Independent Study	1	No
Spring 2014	Astronomy 299	Thesis Research	1	No
	Astronomy 297	Independent Study	1	No
Fall 2014	Astronomy 1	Introduction to the Cosmos	220	No
	Astronomy 299	Thesis Research	1	No
Winter 2015	Astronomy 299	Thesis Research	1	No
Spring 2015	Astronomy 299	Thesis Research	2	No
Fall 2015	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
Winter 2016	Astronomy 199	Tutorial	1	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
Spring 2016	Astronomy 1	Introduction to the Cosmos	242	No
	Astronomy 199	Tutorial	1	No
	Astronomy 297	Independent Study	1	No
	Astronomy 299	Thesis Research	1	No
Fall 2016	Astronomy 1	Introduction to the Cosmos	220	No
	Astronomy 297	Independent Study	1	No

TEACHING-RELATED ACTIVITIES AND OTHER TEACHING

Teaching Innovation

- 2004 Prepared to use Classroom Performance System (CPS), an electronic aid for interactive learning geared toward engaging large classes; attended 6 eInstruction training sessions; arranged for a classroom demo before the start of the fall quarter.
- 2004–2006 Implemented CPS in Fall 2004 Astronomy 2 (Overview of the Universe) in a class with 157 students. Transitioned to CPS RF in Fall 2005. Attended extensive training sessions in summer 2004 and 2005. Successfully used CPS RF in Fall 2005 and 2006 Astronomy 2 in classes with 235 and 145 students, respectively.
- 2008 Experiment in coordinated team teaching with Rebecca Bernstein of both Astronomy 2 (Overview of the Universe) sections (~ 300 + 140 students), Fall.
- 2009 Attended special NASA CAE workshop at the AAS Long Beach meeting on active questioning and use of clickers in introductory astronomy classes, January.
- 2009 Transitioned to a new clicker system (i>clicker) that is better and cheaper for the students, Fall.
- 2010–2012 Engaged UCSC Education department faculty June Gordon, PhD student Zoe Buck, and CfAO post-doc Tamara Ball in a study of the novel cross-cultural learning opportunities opened up by the “G³ cubed” project – an international research partnership involving three all-girls high schools: Castilleja School (Palo Alto, CA, USA), Modern High School (Kolkata, India), and Shanghai No. 3 School (China).
- 2013 Collaborated with Matt Malkan at UCLA on the submission of an online introductory astronomy course proposal to ILTI, Fall.

Substitute Lectures (UCSC)

Quarter/ Year	Name	Title of Class	Number of Lectures	Instructor
1995 Fall	Astronomy 13	Galaxies, Cosmology & High-Energy Astrophysics	2	Zaritsky
	Astronomy 2	Overview of Astronomy	4	Brodie
1998 Winter	Astronomy 2	Overview of Astronomy	2 (1/1)	Jones/Lin
2000 Winter	Astronomy 4	Stars	2	Bolte
2000 Spring	Astronomy 2	Overview of Astronomy	2	Brodie
2004 Fall	Astronomy 4	Stars	2	Bolte
2006 Winter	Astronomy 5	Introduction to Cosmology: Formation & Evolution of the Universe	1	Prochaska
2009 Fall	Astronomy 2	Overview of the Universe	2	Bernstein
2012 Winter	Astronomy 5	Introduction to Cosmology: Formation & Evolution of the Universe	1	Brodie
2012 Winter	Physics 102	Modern Physics	1	Lee (Phys)
2014 Fall	Astronomy 2	Overview of the Universe	1	Rockosi

Graduate Students Supervised (UCSC A&A unless otherwise noted)

1992–1994	John Hibbard, Ph.D. (Columbia U./assisted J. van Gorkom with supervision)
1993–1994	Arpad Szomoru, Ph.D. (U. of Groningen/assisted J. van Gorkom with supervision)
1993–1994	Zsolt Frei, Ph.D. (Princeton U./assisted J. Gunn with supervision)
1994–2000	David Reitzel, Ph.D. supervisor
1995–1997	Randi Cohen
1995–1998	Kristine Ing, Ph.D. supervisor (Physics)
1996–1997	Zodiac Webster
1996–2001	Anouk Shambrook, Ph.D. supervisor
1997–2002	Philip Choi, Ph.D. supervisor
1998–2004	Justin Howell, Ph.D. supervisor (assisted by J. Brodie and S. Faber)
1999	Ariyeh Maller, Ph.D. (Physics/assisted J. Primack with supervision)
1999–2003	Marla Geha, Ph.D. supervisor
2001–2002	Jason Melbourne
2003–2008	Karoline Gilbert, Ph.D. supervisor
2004–2009	Evan Kirby, Ph.D. supervisor
2004–2011	Kirsten Howley, Ph.D. supervisor
2005–2006	Nick Konidaris (assisted D. Koo with supervision)
2006–2008	Jedidah Isler, Masters supervisor (joint Fisk/Vanderbilt program/CfAO)
2007–2008	Priya Kollipara
2008–2014	Rachael Beaton, Ph.D. (U. Virginia/assisted S. Majewski with supervision)
2009–2012	Erik Tollerud, Ph.D. (UC Irvine/assisted E. Barton & J. Bullock with supervision)
2009–2013	Valery Rashkov, Ph.D. (assisted P. Madau with supervision)
2009–2015	Claire Dorman, Ph.D. supervisor
2010–2011	Anahí Caldu-Primo, Masters (Universidad Nacional Autónoma de Mexico/UCSC)
2010–2012	Lei Yang, Masters (Beijing U./assisted E. Kirby & E. Peng with supervision)

- 2010–2012 Xiaoting Fu, Masters (Natl. Astron. Obs., Chinese Acad. of Sci./assisted E. Kirby & L. Deng with supervision)
- 2012–2016 Katherine Hamren, Ph.D. supervisor (assisted by C. Rockosi & G. Smith)
- 2013– Laura Prichard (Leeds University/Oxford University, UK; assisted by K. Hamren & P. Casseli)
- 2013– Emily Cunningham (assisted by A. Deason & C. Rockosi)
- 2014–2015 Biao Li (Peking University, China; assisted E. Peng & E. Toloba with supervision)
- 2014–2015 Yiqing Liu (Peking University, China; assisted E. Peng & E. Toloba with supervision)

Post-Doctoral Researchers Supervised (UCSC unless otherwise noted)

- 1996–1999 Arpad Szomoru
- 1998–1999 Eva Grebel (co-supervised with D. Zaritsky)
- 2002–2007 Mark Fardal (U. of Victoria, U. of Massachusetts; co-supervised with A. Babul)
- 2004–2008 Jasonjot Kalirai (Hubble Fellow)
- 2009–2011 Kamson Lai (co-supervised with D. Koo & S. Faber)
- 2011–2015 Elisa Toloba (Fulbright Scholar; co-supervised with J. Simon & E. Peng)
- 2012–2015 Alis Deason (Hubble Fellow; co-supervised with C. Rockosi)

Undergraduate Students Supervised (UCSC unless otherwise noted)

- 1993 Eric Peng (Princeton Univ./Junior Research Project)
- 1993 Andreas Berling (Princeton Univ./Junior Research Project)
- 1994 Randi Cohen (Princeton Univ./Junior Research Project)
- 1998 Amy Tan (Univ. of California at Davis, McNair Scholar)
- 1999–2001 Linda Pittroff (Senior Thesis)
- 2000 Jonathan Warren
- 2001–2002 Susmita Datta (Senior Thesis)
- 2003–2004 Dan Gray (Senior Thesis; co-supervised with J. Lotz)
- 2003–2004 Brian Lemaux (Senior Thesis)
- 2004–2006 Carynn Luine (Senior Thesis; co-supervised with J. Kalirai & K. Gilbert)
- 2006 Katharine Fayram (Senior Thesis; co-supervised with N. Konidaris & E. Kirby)
- 2006 Darwin Fernandez (Hartnell Community College; co-supervised with S. Kassin)
- 2006 Hannah Sugarman (Wesleyan)
- 2006 Colin Rognlie
- 2006–2007 Johnathan Rice (Senior Thesis; co-supervised with J. Kalirai)
- 2007 Heather Kaluna (Univ. of Hawaii at Hilo/CfAO/co-supervised with D. Rosario)
- 2007–2008 Basilio Yniguez (Senior Thesis; co-supervised with K. Howley)
- 2007–2008 Rachael Beaton, Ph.D. (U. Virginia/co-supervised with S. Majewski)
- 2007–2011 Jennifer Consiglio (Senior Thesis; co-supervised with E. Kirby)
- 2008–2009 Jody Hannibal
- 2008–2009 Elizabeth Nordeen
- 2008–2012 Katherine McCormick (Senior Thesis)
- 2010 Jessica Johnston
- 2010–2011 Amanda Ausman
- 2010–2011 Mykhaylo Shumko (co-supervised with C. Dorman)
- 2011–2012 Alexander Thelen (Senior Thesis; co-supervised with K. Howley)

- 2012–2013 Jingjing Chen (Peking University, China; co-supervised with E. Peng)
 2012–2013 Laura Prichard (Leeds University, UK & UCSC; co-supervised with A. Deason & P. Casseli)
 2012–2013 Corinne Rushing (Senior Thesis; co-supervised with K. Hamren)
 2012–2014 Christopher Powers (Senior Thesis; co-supervised with C. Dorman)
 2014–2016 Kathryn Plant (Senior Thesis; co-supervised with B. Margon & C. Rockosi)
 2014–2016 Jose Torres Hernandez (Senior Thesis; co-supervised with H. Yesuf)
 2014–2015 Lena Eiger (Harvey Mudd College)
 2015 Sophia Sholtz (Senior Thesis; co-supervised with E. Toloba)
 2015 Maksym Zhelyeznyakov (Texas Tech University; co-supervised with E. Toloba)
 2016 Hyerin Jang (Senior Thesis; co-supervised with J. Torres)
 2016 Jon Hays (Cabrillo College/LAMAT intern)

High School Students Supervised

- 2009 Namrata Anand, Kevin Zhang, Andrew Zhou (Harker)
 [co-supervisor: E. Kirby]
 2010 Annie Cardinal, Nina Jansen, Claudia Kelley, and Teresa Krause (Castilleja); Benjamin Chen and Michelle Deng (Harker); Jenny Hong (Palo Alto); Anirudh Suvarna (Monta Vista)
 [co-supervisors: C. Dorman, K. Howley, E. Kirby, K. McCormick, and V. Rashkov]
 2011 Aurora Alvarez-Buylla (Balboa); Lucy Cheng and Ashvin Swaminathan (Harker); Abrar Choudhury (Bellarmine); Victoria Dean, Nina Jansen, and Teresa Krause (Castilleja); Sumedh Guha (Archbishop Mitty); Anirudh Suvarna (Monta Vista)
 [co-supervisors: A. Caldu-Primo, C. Dorman, E. Kirby, K. McCormick, and V. Rashkov]
 2012 Lucy Cheng, Zareen Choudhury, Michelle Deng, Andrew Luo, Varun Mohan, and Andrew Zhang (Harker); Victoria Dean, Caroline Debs, and Teresa Krause (Castilleja); Aurora Alvarez-Buylla (Balboa); Claire Grishaw-Jones (Santa Cruz); Sumedh Guha (Archbishop Mitty); Michelle Guo (Irvington); Tara Iyer (Evergreen Valley); Paras Jain (Monta Vista); Sanika Kulkarni (Presentation); Debnil Sur (Bellarmine); Leda Woloshyn (Latymer)
 [co-supervisors: C. Dorman, K. Hamren, K. Howley, E. Kirby, K. McCormick, A. Thelen, P. Thorman, and E. Toloba]
 2013 Stephanie Chen, Zareen Choudhury, Avinash Nayak, Shreyas Parthasarathy, Samyukta Yagati, and Andrew Zhang (Harker); Caroline Debs and Lea Sparkman (Castilleja); Anneliese Gallagher and Mary Liu (Los Altos); Shazia Babul (Sentinel, Vancouver); Matthew Chang (Mountain View); Amy Cohn (Park Tudor, Indiana); Claire Grishaw-Jones (Santa Cruz); Michelle Guo (Irvington); Neel Ramachandran (St Francis); Sony Theakanath (Bellarmine)
 [co-supervisors: A. Deason, C. Dorman, K. Hamren, E. Kirby, P. Thorman, and E. Toloba]
 2014 Caroline Chang (Ardenwood Home School); Jane Choi and Lea Sparkman (Castilleja); Jason Chu, Alice Wu, and Andrew Zhang (Harker); Anjali Ganguly (Evergreen Valley); Michelle Guo and Rachel Guo (Irvington); Jerry Hong (Palo Alto); Anjini Karthik (St. Francis); Ajinkya Nene (Lynbrook); Nikita Vemuri (Archbishop Mitty)
 [co-supervisors: K. Hamren, E. Kirby, E. Toloba, and E. Velasquez]

- 2015 Lea Sparkman (Castilleja); Maggie Wang (Gunn); Jimmy Lin (Harker); Rachel Guo (Irvington); Arin Mukherjee (Lawrenceville); Shruti Keoliya (Modern High School, Kolkata, India)
[co-supervisors: E. Cunningham and E. Toloba]
- 2016 Jerry Chen and Connie Miao (Harker); Gabriel Damon (Santa Cruz); Anita Ilango and Megha Ilango (Cupertino); Anika Kamath (Crystal Springs); Arushi Sahai (Menlo); Alyssa Sales and Atmika Sarukkai (Castilleja); Andrew Shao (Lynbrook)
[co-supervisors: L. Prichard, E. Toloba, and J. Torres]

Non-UCSC Teaching

- 1980 La Martinière School, Calcutta, India. Substitute teacher for 1 month, approx. 200 students in 5 classrooms. English, Math and Physics, grades 6–10, September.
- 1989 Rider College, Lawrenceville, NJ. Substitute teacher for 1 week, approx. 100 freshmen/sophomore students. Introductory Astronomy, Instructor: Pat Boeshaar, October.
- 1995 Ralph E. Noddin Middle School, Capitola, CA. Lectures & demos, approx. 30 students, grade 6. Project ASTRO partner: Catherine Gunderson, July.
- 1996 Pacific Union College, Angwin, CA. Science enrichment lecture for approx. 50 college students. “Galaxy Evolution,” November.
- 1996–2001 E.A. Hall Middle School, Watsonville, CA. 2–3 lectures & demos per year over a 5 year period, approx. 20 students per lecture, grades 6–7. Project ASTRO partner: Shoshana Coplan.
- 1997 Alta Vista Elementary School, Los Gatos, CA. 2 annual Science Day presentations. 6 lectures & demos to a total of approx. 200 students, grades K–5.
- 1999 Center for Astronomical Research in Antarctica Space Explorers’ Program, visit to UCSC. Coordinator: Randall Landsberg. Lecture & demos, approx. 25 Chicago area inner city high school students, July.
- 1999 Alta Vista Elementary School, Los Gatos, CA. 2 annual Science Day presentations. 6 lectures & demos to a total of approx. 200 students, grades K–5.
- 2000 Watsonville Elementary School, Watsonville, CA. Lectures & demos, 20 students, grades 3–5, March.
- 2000 UCSC. Discovery Lecture (with Sandra Faber). Approx. 300 high school students, “Studying the Formation of Galaxies,” June.
- 2000 UCSC. Dessert Talk and Lick Shop Tour (with Sandra Faber). Six COSMOS high school students, “The DEIMOS Spectrograph,” June.
- 2000 UCSC. Organized and coordinated CfAO participation in the Summer Youth Leadership Conference and Science Academy, 6 two-day sessions of lectures and astronomical observations, approximately 600 students from rural areas. Program director: Ed Aguilar, May–August.
- 2000 UCSC. Spoke to a dozen high school students in the Center for Talented Youth, “Telescopes as Time Machines,” November.
- 2000–2001 UCSC. Kids Around the University (KATU) Program, 5 sessions over a 2-year period, 25 elementary and middle school students per session, grades 4–7. Directors: Bliss Kern, Nick Ellis.
- 2000–2001 Good Samaritan Hospital Child Care Center, San Jose CA. 3 presentations per year over a 2-year period, approx. 20 students per presentation, ages 2–4 years.

- 2001 Loma Prieta Independent Home Study, Summit, CA. Teacher: Catherine Gunderson. Solar system demo and galaxy slides for 10 middle school students, May.
- 2001 UCSC. COSMOS CfAO cluster 10, Stars, Sight, and Science, taught and developed curriculum with Sasha Hinkley, UCSC physics graduate student. 2 lecture sessions, 15 high school students, June.
- 2001 Discovery Lecture at UCSC (with Sandra Faber). Approx. 300 high school students, “The Birth and Evolution of Galaxies: Time Machines, Cannibalism and Chemical Pollution,” June.
- 2001–2002 Renaissance High School, Watsonville, CA. Project ASTRO partner: Shoshana Coplan. 2–3 lectures & demos per year, approx. 15 students per lecture, grades 9–12.
- 2002 Pacific Union College, Angwin, CA. Science enrichment lecture for approx. 50 college students, “Birth and Evolution of Galaxies: Time Machines, Cannibalism and Chemical Pollution,” January.
- 2002 Lick Observatory, Mount Hamilton, CA. Guided tour and recruitment for CfAO’s “Stars, Sight and Science 2002,” 15 students from Renaissance High School, Watsonville, CA, March.
- 2002 Discovery Lecture at UCSC (with Sandra Faber). Approx. 200 high school students, “Galaxies, Time, and Light,” July.
- 2002–2003 Stratford School, Los Gatos, CA. 3 presentations per year, approx. 50 students per presentation, grades PS–K.
- 2003 Discovery Lecture at UCSC (with Sandra Faber). Approx. 200 high school students, “The Milky Way, Schrodinger’s Cat, and You,” July.
- 2003 Loma Prieta Independent Home Study, Summit, CA. Teacher: Catherine Gunderson. Two groups of middle school students, totalling about 20. Two cosmology presentations and question/answer sessions, September.
- 2004 Modern High School for Girls, Kolkata, India. Approx. 250 students in grades 10, 11 and 12, three lectures, “The Milky Way, Schrodinger’s Cat, and You,” July.
- 2004 Redwood Middle School, Saratoga, CA. Six 45-minute astronomy presentations followed by question/answer and discussion sessions for 8th grade students and judging of science essays, total of 153 students. Teacher: Martin K. Belles, December.
- 2005 Renaissance High School, Watsonville, CA. Project ASTRO partner: Shoshana Coplan. 2–3 lectures & demos per year, approx. 15 students per lecture, grades 9–12.
- 2005 La Martinière for Girls, Kolkata, India. Special lecture, about 150 Science Club members from grades 8 to 10. Coordinator: Ms. Mathew. “The Milky Way, Schrodinger’s Cat, and You,” August.
- 2005 Loreto House, Kolkata, India. Special lecture, about 250 girls from grades 11 and 12 science sections. Coordinator: Ms. Gilla. “The Milky Way, Schrodinger’s Cat, and You,” July.
- 2005 UCSC, Santa Cruz, CA. Discovery lecture, about 200 students from COSMOS and JHU/CTY programs. Coordinator: Frank Bauerle. “The Milky Way, Schrodinger’s Cat, and You,” July.
- 2005 Saratoga High School Career Day Saratoga, CA. Astronomy presentation, total of 20 students. Coordinator: Karen Azzi, March.

- 2006 UCSC, Santa Cruz, CA. Discovery lecture, about 200 students from COSMOS and JHU/CTY programs. Coordinator: Nafeesa Owen. “A Journey Back to the Big Bang,” July.
- 2007 Stratford School, Los Gatos, CA. Lecture, about 40 3rd grade students. Coordinator: Sherry Peregian, principal. “A Journey Back to the Big Bang,” April.
- 2007 Georgiana Bruce Kirby Preparatory School, Santa Cruz, CA. Four lectures (with Karoline Gilbert), about 75 8th-12th grade students. Science intensive program coordinator: Lise Whitfield. Various topics including: “Journey Back to the Big Bang,” “Telescopes as Time Machines,” “Galaxy Cannibalism,” and “Adaptive Optics,” May.
- 2007 UCSC, Santa Cruz, CA. Lecture at SCIPP Quarknet teachers workshop, about 15 high school teachers and students. Coordinator: Hartmut Sadrozynski. “A Journey Back to the Big Bang,” June.
- 2007 UCSC, Santa Cruz, CA. Discovery lecture (with Sandra Faber), about 200 students from COSMOS and JHU/CTY programs. Coordinator: Nafeesa Owen. “A Journey Back to the Big Bang,” August.
- 2007 Modern High School, Kolkata, India. Guest lecture, about 100 girls from two Grade 12 science sections). Coordinator: Devi Kar (principal). “A Journey Back to the Big Bang,” December.
- 2007 Stratford School, Los Gatos, CA. Lecture and demonstration, 45 4th grade students. Coordinator: Tekla Petrinovich, “Our Solar System, the Milky Way galaxy, and Black Holes,” October.
- 2007 Hartnell College, Salinas, CA. Two lectures, 50 students (total), astronomy class and Physics Club. Coordinator: Dr. Pimol Moth. “Journey Back to the Big Bang” and “Black Holes, Adaptive Optics, and Time Machines,” November.
- 2008 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—“COSMOS Cluster 7 Astronomy” (with Karoline Gilbert), 18 high school students and 1 high school teacher. Coordinator: Amy Stucky, June–July.
- 2008 UCSC, Santa Cruz, CA. Discovery Lecture (with Sandra Faber), about 200 students from COSMOS and other summer programs. Coordinator: Amy Stucky, “A Journey Back to the Big Bang,” June.
- 2008 Monroe Middle School, San Jose, CA. Shadowed for a day by Cody Contreras, 8th grade student, March.
- 2008 XXth IAC (Instituto de Astrofisica de Canarias). Winter School (two-week course, five one-hour lectures), 60 graduate students and postdocs. “The SPLASH Survey and Progressive Stages of Hierarchical Galaxy Formation,” November.
- 2009 Santa Cruz County Jail. Algebra course for inmates. Coordinators: Mark Krumholz and M’Liss Keesling, May–June.
- 2009 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—“COSMOS Cluster 7 Astronomy,” 18 high school students and 1 high school teacher. Coordinator: Amy Stucky, June–July.
- 2009 UCSC, Santa Cruz, CA. Discovery Lecture (with Sandra Faber), about 200 students from COSMOS and other summer programs. Coordinator: Amy Stucky; “Our Place in the Cosmos,” July.
- 2009 La Martinière School for Boys, Kolkata, India. Guest lecture, about 80 boys from grades 11 and 12 science sections. Coordinator: Sunirmal Chakravarthi (principal), “Our Place in the Cosmos,” August.

- 2009 Los Gatos, CA. Interviewed by Erica Meier, 6th grade student from Pleasanton Middle School, for a project on black holes, April.
- 2009 International School of the Peninsula, Palo Alto, CA. Lecture to 20 7th grade students. Coordinator: Amy Fontarensky, June.
- 2009 The Harker School. Set up summer research internship program for three high school students— Namrata Anand, Kevin Zhang, Andrew Zhou (all rising seniors)— who worked on SPLASH-related research projects. Coordinated with: Anita Chetty (Harker Science Dept Chair), May–August. Siemens: two semifinalists; Intel STS: three semifinalists and one finalist (all in astronomy).
- 2009 Modern High School, Kolkata, India. Two guest lectures, one to about 80 girls from grades 11 and 12 science sections; one to about 160 girls from grade 10). Coordinator: Devi Kar (principal), “Our Place in the Cosmos,” August.
- 2009–2012 Stratford School, San Jose, CA. Mentored an elementary-school (2nd grade in 2009–2010) student, Rakesh Peddibhotla.
- 2010 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—“COSMOS Cluster 7 Astronomy” (co-instructor: Sarah Hansen), 18 high school students and 1 high school teacher. Coordinator: Amy Stucky, January–June.
- 2010 UCSC. Hosted Astronomy Night with lecture for Harker Women in Science, Technology, Engineering and Math (WiSTEM) group, 13 students and 2 teachers, including a visit to the Lick instrument shops (host: Dave Cowley), “Our Place in the Cosmos,” February.
- 2010 The Harker School, San Jose, CA; Castilleja School, Palo Alto, CA; Monta Vista High School, Cupertino, CA; Palo Alto High School, Palo Alto, CA. Expanded high school summer research internship program to include astronomy, instrumentation, high-energy physics (SCIPP), and chemistry faculty at UCSC, and astronomy postdocs, graduate students, and undergraduates; expanded the set of schools, 15 high school students (rising sophomores to rising seniors) participated, including 3 on DEEP and 7 on nearby galaxy research projects (preparatory work started in January). Coordinated with: Anita Chetty (Harker Science Dept Chair) and Doris Mourad (Castilleja Research Internships), February–June.
- 2010 Galt High School, Galt, CA. Shadowed for a day by Chelsea Purcell, 12th grade student, March.
- 2010 Expanded high school science internship program (SIP) to include research projects in astronomy, instrumentation, and chemistry mentored by UCSC faculty, postdocs, graduate students, and undergraduates and expanded the set of schools to The Harker School (San Jose), Castilleja School (Palo Alto), Monta Vista High School (Cupertino), and Palo Alto High School (Palo Alto); 15 high school students (rising sophomores to rising seniors) participated, including 3 on DEEP and 7 on nearby galaxy research projects/coordinated with: Anita Chetty (Harker), Doris Mourad (Castilleja), May–August (prep work started in January). Siemens: two semifinalists; Intel STS: four semifinalists and two finalists (in astronomy, chemistry, and instrumentation).
- 2010 Discovery Lecture (with Sandra Faber) at UCSC, Santa Cruz, CA (about 200 students from COSMOS and other summer programs)/coordinator: Amy Stucky; “Galaxies and Our Place in the Cosmos,” July.

- 2010 Project for Inmate Education: Was one of two instructors for algebra course (Math 2) for Santa Cruz County Jail inmates – offered through UCSC extension; coordinator: Mark Krumholz, July–September.
- 2010 Guest lecture at Modern High School, Kolkata, India; about 40 girls from the grade 11 science section/coordinator: Devi Kar (principal); “Our Place in the Cosmos,” August.
- 2010 Guest lecture at La Martiniere School for Boys, Kolkata, India; about 40 boys from the grade 12 science section/coordinator: Sunirmal Chakravarthi (principal); “Our Place in the Cosmos,” August.
- 2010–2012 Mentored a 9th-grade student Akanksha Chattopadhyay, Modern High School, Kolkata, India.
- 2010 Advised UCSC freshman Autumn Becerra for her research paper on the effects of light pollution, October.
- 2010 Advised UCSC freshman Jessica Huynh for her research paper on the effects of light pollution, November.
- 2010 Modern High School visit to meet with team of students and teachers and to video skype with Castilleja staff for “G³ project,” December.
- 2011 Expanded high school science internship program (SIP) to include astronomy/astrophysics, astronomical instrumentation, physics, chemistry, biomedical engineering, and marine sciences. Expanded the set of schools to The Harker School (San Jose), Castilleja School (Palo Alto), Monta Vista High School (Cupertino), Balboa High School (San Francisco), Bellarmine College Preparatory (San Jose) and Archbishop Mitty High School (San Jose). A total of 29 high school students (rising sophomores to rising seniors) participated, including 1 on DEEP, 3 on exoplanets, and 9 on nearby galaxy research projects/ coordinated with: Anita Chetty (Harker), Christy Story (Castilleja); May-August (preparatory work started in October 2010 and the work continued through August 2011). Siemens: three semifinalists (+ one SIP alumna) and two regional finalists; Intel STS: four semifinalists (+ one SIP alumna) (in astronomy and chemistry).
- 2010–2011 Worked with Gordon Ringold, Director, UCSC Silicon Valley Initiative and his assistant Joanne Yamaguma on expansion of the high school science internship program (SIP), campus housing for SIP students, and SIP-related development efforts; explored idea of joint Castilleja-Harker speaker series for UCSC researchers in STEM areas of excellence (October 2010–August 2011).
- 2011 Was shadowed for a day and interviewed by Zack Newland, 12th grade student, Harbor High School, Santa Cruz, CA; January.
- 2011 Project for Inmate Education: Was one of two instructors for algebra course (Math 2) for Santa Cruz County Jail inmates – offered through UCSC extension; coordinator: Mark Krumholz, February–June.
- 2011 Astronomy instructor for COSMOS Cluster 7 Astronomy, a 4-week course at UCSC, Santa Cruz, CA (20 high school students + 1 high school teacher)/co-instructor: Sarah Hansen; coordinator: Jennifer Rolan; June/July (plus planning and curriculum design over the preceding Winter & Spring terms).
- 2011 Discovery Lecture (with Sandra Faber) at UCSC, Santa Cruz, CA (about 200 students from COSMOS and other summer programs)/coordinator: Yvette Nava; “Our Place in the Cosmos: Astrology, Gastronomy, and Cosmetology,” July.

- 2011 Project for Inmate Education: Was one of two instructors for algebra course (Math 2) for Santa Cruz County Jail inmates – offered through UCSC extension; coordinator: Mark Krumholz, September–December.
- 2012 Expanded high school science internship program (SIP) to include 43 students from 20 schools, including a school in Oregon and one in Moscow, Russia. The subjects covered included astronomy/astrophysics, astronomical instrumentation, physics, biomolecular engineering, computer engineering, electrical engineering, oceanography, and microbiology and environmental toxicology/coordinated with: Anita Chetty (Harker), Stacey Kertsman (Castilleja); January–August. Siemens: seven semifinalists (+ one SIP alumna) and two regional finalists (+ two SIP alumni); Intel STS: four semifinalists (+ two SIP alumni) (in astronomy, physics, and chemistry).
- 2012 Mentored an 8th grade student, Narun Raman, Keys School, Palo Alto, on a special relativity project; March.
- 2012 Question/answer session for 270 3rd-grade students at Warm Springs Elementary School, Fremont, CA; coordinator: Clyde Mann; March.
- 2012 Modern High School visit to meet with team of students and teachers for an interactive session on “Scale of the Universe” and to set up collaboration with SIP/COSMOS students at UCSC, May.
- 2012 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—“COSMOS Cluster 7 Astronomy,” 20 high school students and 1 high school teacher. Coordinator: Raul Ebio, July–August.
- 2012 Discovery Lecture at UCSC, Santa Cruz, CA (~200 students from COSMOS and other summer programs)/coordinator: Raul Ebio; “Mergers and Acquisitions: The Lives and Times of Galaxies”, July.
- 2012 Gave invited public lecture to students of China West Normal University, Nanchong, China (about 400 students); “Our Place in the Cosmos”, May.
- 2012 Helped coordinate participation of SIP mentors and mentors from UCSC's Women in Science and Engineering (WiSE) group in the More Active Girls in Computing (MAGIC) program founded by SIP parent Ira Pramanick of Google; built on partnership between WiSE and Watsonville High School (coordinator: Don Brown); March–September.
- 2012 Modern High School visit to meet with students from classes X and XI and teachers for an interactive session on “The Andromeda Project,” a citizen science project, and to set up collaboration with SIP/COSMOS students at UCSC, November.
- 2013 Expanded high school science internship program (SIP) to include 61 students.
- 2013 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—“COSMOS Cluster 7 Astronomy,” 25 high school students and 1 high school teacher. Coordinator: Raul Ebio, July–August.
- 2013 Discovery Lecture at UCSC to ~200 high school students from COSMOS, SIP and other summer programs/coordinator: Raul Ebio; “Are Galaxies Island Universes?” July.
- 2014 Expanded high school science internship program (SIP) to include 68 students from 28 schools (17 public, 11 private); new website launched; paperless application portal launched.
- 2014 Interviewed by Amelia Spencer, 11th grade student from East Paulding High School, Dallas, GA, about a career in astrophysics, May.

- 2014 Interviewed by Jack Hanke, a high school student from Texas, about a career in astrophysics, May.
- 2014 UCSC, Santa Cruz, CA. 4-week course plus planning and curriculum design over the Winter & Spring terms—"COSMOS Cluster 7 Astronomy," 25 highschool students and 1 high school teacher. Coordinator: Raul Ebio, July–August.
- 2014 Discovery Lecture at UCSC for ~200 high school students from COSMOS, SIP and other summer programs/coordinator: Raul Ebio; "Are Galaxies Island Universes?" July.
- 2014 Special lecture for 20 middle-school students in the i2 camp at Castilleja School/coordinator: Jon Rockman; "Cosmic Chemistry, Star-forming Nebulae, Galaxy Collisions, and Black Holes," July.
- 2014 Special lecture for 15 middle-school students in Starlab, the Modern High School for Girls astronomy club/coordinator: Pamela Datta; "Cosmic Chemistry, Star-forming Nebulae, Galaxy Collisions, and Black Holes," August.
- 2014 Lecture at Fremont Lecture Series for about 100 students, parents, and teachers, Fremont High School, Mountain View, CA; "We Are Stardust," September.
- 2014 Project for Inmate Education: Was one of seven instructors/graders for pre-algebra course for Santa Cruz County Jail inmates; coordinator: Mark Krumholz, October–December.
- 2014 Lecture for the Harker School Astronomy Club, San Jose, CA; "We Are Stardust," October.
- 2014 Lecture for the Watsonville High School Chemistry Club, Watsonville, CA about research opportunities for high school students: the COSMOS, SIP, and MAGIC programs at UCSC, October.
- 2014 Science Speakers Club lecture for students at the Stanford University Online High School/coordinator: Tanmay Khattar; "We Are Stardust" (and an introduction to the UCSC SIP program), November.
- 2014 Lecture for the Bellarmine College Prep STEM-Med Club, San Jose, CA; "The Universe of Galaxies" (and an introduction to the UCSC SIP program), November.
- 2014 Interviewed by Teresa Krause (Northeastern University undergraduate; former SIP intern) about mentoring, December.
- 2015 Lecture for students at Crystal Springs Uplands School, Hillsborough, CA; "The Universe of Galaxies" (and an introduction to the UCSC SIP program), February.
- 2015 Lecture for students in the "Think About Tomorrow" club at Henry M. Gunn High School, Palo Alto, CA; "UCSC's Science Internship Program," March.
- 2015 Expanded high school science internship program (SIP) to include 104 students; paperless mentor portal and application rating system added.
- 2015 Discovery Lecture at UCSC for ~200 high school students from COSMOS, SIP and other summer programs/coordinator: Raul Ebio; "We Are Stardust," July.
- 2015 Special lecture for 20 middle-school students in the i2 camp at Castilleja School/coordinator: Jon Rockman; "Magic of the Universe," July.
- 2015 Presented at "Exploring Careers!" event at Monta Vista High School, Cupertino, CA; conducted three sessions for ~30 students each; November.
- 2016 Lecture for the STEMx club at Castilleja School, Palo Alto, CA; "The Recent Detection of Gravitational Waves from a Pair of Merging Black Holes," March.
- 2016 Expanded high school science internship program (SIP) to include 142 students; new bus system added.

- 2016 Discovery Lecture at UCSC for ~200 high school students from COSMOS, SIP and other summer programs/coordinator: Raul Ebio; “We Are Stardust,” July.
- 2016 Lecture at UCSC for 15 9th–10th grade students from Johns Hopkins U. Center for Talented Youth; “Galaxies: Building Blocks of the Universe,” July.

Undergraduate Academic Advising

- 2009–2010 Academic Advisor for 6 Physics undergraduates, all astrophysics majors
- 2010–2011 Academic Advisor for 9 Physics undergraduates, all astrophysics majors
- 2011–2012 Academic Advisor for 7 Physics undergraduates, all astrophysics majors
- 2012–2013 Academic Advisor for 6 Physics undergraduates, all astrophysics majors
- 2013–2014 Academic Advisor for 7 Physics undergraduates, all astrophysics majors
- 2014–2015 Academic Advisor for 6 Physics undergraduates, all astrophysics majors
- 2015–2016 Academic Advisor for 10 Physics undergraduates, all astrophysics majors

Tutoring

- 1978–1985 Calcutta, India; tutored about 100 elementary, middle, and high school students over an 8-year period; physics, chemistry, math.
- 1989–1991 Princeton University, Princeton, NJ; tutored 3 undergraduate students for 1 semester each; Physics.

STUDENTS AWARDED Ph.D. DEGREE

- 1994 John Hibbard (assisted with supervision—Columbia U./advisor: J. van Gorkom)
- 1994 Arpad Szomoru (assisted with supervision—U. Groningen/advisor: J. van Gorkom)
- 1994 Zsolt Frei (assisted with supervision—Princeton U./advisor: J. Gunn)
- 1998 Kristine Ing (UCSC)
- 2000 David Reitzel (UCSC)
- 2001 Anouk Shambrook (UCSC)
- 2002 Philip Choi (UCSC)
- 2003 Marla Geha (UCSC)
- 2004 Justin Howell (UCSC; assisted by S. Faber and J. Brodie)
- 2008 Karoline Gilbert (UCSC)
- 2009 Evan Kirby (UCSC)
- 2011 Kirsten Howley (UCSC)
- 2015 Claire Dorman (UCSC)
- 2016 Katherine Hamren (UCSC; assisted by C. Rockosi and G. Smith)

ADVISEE HONORS AND AWARDS

- John Hibbard—former Ph.D. student (co-supervised with J. van Gorkom, Columbia U.)
- 1994 Hubble Fellowship
- 1997 Astron. Soc. of the Pacific’s Robert J. Trumpler award for best Ph.D. thesis

- Eva Grebel—former postdoc, co-supervised with D. Zaritsky
1998 Hubble Fellowship
- Marla Geha—former Ph.D. student
2003 Hubble Fellowship
2006 Plaskett Fellowship
2009 *Popular Science* magazine’s annual top 10 young researchers
2010 Alfred P. Sloan Fellowship
2010 Appeared on UCSC’s “45+5: Stars Among Us” list
- Jasonjot Kalirai—former postdoc
2005 Hubble Fellowship
2013 Newton Lacy Pierce Prize of the American Astronomical Society
2013 Appeared on Baltimore Metropolitan Area’s “40 under 40” list
2013 Maryland’s Outstanding Scientist of the Year award
2014 Kavli Fellow
- Evan Kirby —former Ph.D. student
2009 Hubble Fellowship
2012 Center for Galaxy Evolution Fellowship
- Namrata Anand—former high school intern (Harker; SIP 2009)
2009–2010 Siemens semifinalist; Intel STS national finalist
- Kevin Zhang—former high school intern (Harker; SIP 2009)
2009–2010 Intel STS semifinalist
- Andrew Zhou—former high school intern (Harker; SIP 2009)
2009–2010 Siemens semifinalist; Intel STS semifinalist
- Karoline Gilbert—former Ph.D. student
2010 Hubble Fellowship
- Benjamin Chen—former high school intern (Harker; SIP 2010)
2010–2011 Intel STS semifinalist
- Abrar Choudhury—former high school intern (Bellarmine; COSMOS 2010/SIP 2011)
2011 1st place, Earth and Space Sciences category, Synopsys Science Fair
2011–2012 Siemens semifinalist; Intel STS semifinalist
2012 Regional finalist, JSHS; 1st place (Physics & Astro.), CA State Science Fair
- Lucy Cheng—former high school intern (Harker; SIP 2011/2012)
2011–2012 Siemens regional finalist; Intel STS semifinalist
2012 Regional finalist, JSHS; 1st place (Physics & Astro.), CA State Science Fair
- Zareen Choudhury—former high school intern (Harker; SIP 2012/2013)
2012–2013 Siemens regional finalist
2013–2014 Siemens semifinalist
- Victoria Dean—former high school intern (Castilleja; SIP 2011/2012)
2012–2013 Intel STS semifinalist
- Caroline Debs—former high school intern (Castilleja; SIP 2012/2013)
2012–2013 Siemens regional finalist
- Michelle Guo—former high school intern (Irvington; SIP 2012/2013)
2012–2013 Siemens semifinalist
2013–2014 Siemens semifinalist

- Teresa Krause—former high school intern (Castilleja; SIP 2010/2011/2012)
2012–2013 Siemens semifinalist
- Andrew Luo—former high school intern (Harker; SIP 2012)
2012–2013 Siemens semifinalist; Intel STS semifinalist
- Debnil Sur—former high school intern (Bellarmine; SIP 2012)
2012–2013 Siemens semifinalist; Intel STS semifinalist
- Andrew Zhang—former high school intern (Harker; SIP 2012/2013/2014)
2012–2013 Siemens semifinalist
2013–2014 Siemens semifinalist
2014–2015 Intel STS semifinalist
- Ayesha Bajwa—former high school intern (Castilleja; SIP 2013; co-supervised with J. Werk)
2013–2014 Siemens regional finalist
- Stephanie Chen—former high school intern (Harker; SIP 2013)
2013–2014 Siemens semifinalist; Intel STS semifinalist
- Amy Cohn—former high school intern (Park Tudor, Indiana; SIP 2013)
2013–2014 Siemens regional finalist; Intel STS semifinalist
- Anneliese Gallagher—former high school intern (Los Altos; COSMOS 2012/SIP 2013)
2013–2014 Siemens semifinalist
- Smriti Pramanick—former high school intern (Castilleja; SIP 2013; co-supervised with J. Werk)
2013–2014 Siemens regional finalist
- Neel Ramachandran—former high school intern (St. Francis; SIP 2013)
2013–2014 Siemens semifinalist
- Kuriakose Sony Theakanath—former high school intern (Bellarmine; SIP 2013)
2013–2014 Siemens semifinalist
- Samyukta Yagati—former high school intern (Harker; COSMOS 2012/SIP 2013)
2013–2014 Siemens semifinalist
- Jason Chu—former high school intern (Harker; SIP 2014)
2014–2015 Siemens regional finalist
- Jerry Hong—former high school intern (Palo Alto; SIP 2014)
2015 Regional finalist, JSHS; 2nd pl. (Physics+Astro.), N. CA State Science Fair
- Ajinkya Nene—former high school intern (Lynbrook; SIP 2014)
2014–2015 Siemens semifinalist
- Lea Sparkman—former high school intern (Castilleja; SIP 2013/2014)
2014–2015 Siemens regional finalist
2015–2016 Intel STS semifinalist
- Alice Wu—former high school intern (Harker; SIP 2014)
2014–2015 Siemens semifinalist
- Kathryn Plant—UCSC undergraduate
2015 Ron Ruby Undergraduate Research in Physics award