C. Renée James

ACADEMIC QUALIFICATIONS

The University of Texas at Austin, 1995 – 2000, Ph.D. (Astronomy), May 2000

The University of Texas at Austin, 1991 – 1993, M.A. (Astronomy), December 1993

Rice University, 1987 – 1991, B.A. (Physics), May 1991

PROFESSIONAL EXPERIENCE

Professor, Sam Houston State University (Huntsville, TX), September 2011 – Present

- Associate Professor, Sam Houston State University (Huntsville, TX), September 2005 August 2011
- Assistant Professor, Sam Houston State University (Huntsville, TX), September 2000 August 2005
- Instructor, Sam Houston State University (Huntsville, TX), September 1999 August 2000
- Teacher, Houston Independent School District (TX), January 1999 June 1999

Instructor, Anne Arundel Community College (Arnold, MD), August 1997 – December 1998

Adjunct Faculty Member, Austin Community College (TX), 1995 – 1997

Teaching Assistant, The University of Texas at Austin, 1995 – 1997

Research Assistant, The University of Texas at Austin, 1992 – 1993, 1996

PUBLICATIONS

Books

- Science Unshackled: How Obscure, Abstract, Seemingly Useless Scientific Research Turned Out to be the Basis for Modern Life, 2014, The Johns Hopkins University Press, Baltimore, MD
- (Edited) Instructor's manual to accompany *The Physics of Everyday Phenomena*, 7/e, 2011 (ebook), McGraw-Hill Publishing, New York, NY
- Seven Wonders of the Universe That You Probably Took for Granted, 2010, The Johns Hopkins University Press, Baltimore, MD

Physics 113/317 Astronomy Lab Manual, 2001, First Edition, RonJon Publishing, Inc. (C. R. James and F. Cooper)

Astronomy Education Publications and Presentations

- "Do Collaborative Exams Really Promote Learning?" S.T. Miller and C. R. James, 2018. Bulletin of the American Astronomical Society, 231, 256.01 [poster].
 - "Robotic vs. Simulated vs. 'The Real Thing:' Faculty and Student Perspectives on Observing." C. R. James and S.T. Miller. 2018. *The Proceedings of the Robotic Telescopes, Student Resaerch and Education Conference*. (accepted).
 - "STEM Teaching Enhancement Workshop," C. R. James, S. Koether, and T. Primm, Center for Teaching and Learning Enhancement, Lamar University, Beaumont, Texas, 16-17 November 2017.
 - "A Sky full of STAARS: An ASSET Science Short Course," C. R. James and S.T. Miller, presentation at the Conference for the Advancement of Science Teaching, Houston, Texas, USA, 11 November 2017.
 - "Reading the Rainbow: An Introduction to Light and Spectra." C.R. James and S.T. Miller. 2017. astroEDU.iau.org, An Open-Access Platform for Peer-Reviewed Science Education Activities. (accepted)
 - "The HR Diagram." S.T. Miller and C.R. James. 2017. astroEDU.iau.org, An Open-Access Platform for Peer-Reviewed Science Education Activities. (accepted)
 - "Robotic vs. Simulated vs. 'The Real Thing: Faculty and Student Perspectives on Observing," invited presentation at the Robotic Telescopes, Student Research and Education Conference, San Diego, CA, 21 June 2017
 - "PULSE@Parkes," presentation at the Conference of the Australian Science Teachers Association, Brisbane, QLD, 4 July 2016
 - "It's Just a Phase Phases and Transits," presentation at the Conference of the Australian Science Teachers Association, Brisbane, QLD, 3 July 2016
 - "Come Together: A Primer on Fusion," presentation at the Science Teachers Association of New South Wales, University of Sydney, Sydney, NSW, 6 June 2016
 - "Channeling Your Inner Astronomer," presentation for Edith Cowan Institute for Education Research, Perth, WA, 17 May 2016
 - "Astronomy Summer School of East Texas," day-long professional development, funded by extension of NASA Grant NNH11ZDA001N-EPOESS, Amarillo, Texas, ESC Region 16, 2-3 July 2015

- "Oh My STAARs and Galaxies," C. R. James, S.T. Miller, and A. Foster. Conference for the Advancement of Science Teaching (CAST) 2014, Dallas, TX, 8 November 2014, half-day professional development.
- "Astronomy Summer School of East Texas: Stars, Galaxies and Cosmology," C. R James, S.T. Miller, A. Foster. Two-week professional development, funded by NASA Grant NNH11ZDA001N-EPOESS, Huntsville, Texas, 14-25 July 2014
- "Twinkle, Twinkle Little Star," presentation, ESC Region VI MINI-Conference for the Advancement of Science Teaching, February 2014
- "Astronomy Summer School of East Texas: Solar System Astronomy," C. R. James, S.T. Miller, and A Foster. Two-week professional development, funded by NASA Grant NNH11ZDA001N-EPOESS, Huntsville, Texas, 15-26 July 2013
- "Gains in Content Knowledge an ASSET to East Texas Secondary Teachers," 2014, Lewis, C., Miller, S., Foster, A. & James, C.R., *Bulletin of the American Astronomical Society*, 223, 448.12 [poster]
- "The Power of Affect: A Comparison of Astronomy/Science Attitudes Among Students and Secondary Teachers." 2014. Kareva, A., Miller, S., Foster, A. & James, C.R. *Bulletin of the American Astronomical Society*, 223, 448.11 [poster]
- "The Life and Death of Bob (a.k.a. NGC 6397) in an Introductory College Level Astronomy Course," 2011, *Bulletin of the American Astronomical Society*, 218, 209.02 (oral)
- "The Effect of Animations Within Powerpoint Presentations on Learning Introductory Astronomy," Scott Miller & C. R. James, 15 July 2011, Astronomy Education Review

Popular Publications (Magazine)

"An Astronomical Wager," 2018. Mercury Magazine, V. 47, No. 1, p. 20.

- "Pulsars at 50 Still Going Strong," 2017, Astronomy, V. 45, Issue 5, p. 22
- "Confessions of a Master Sketcher," 2017, Astronomy, V. 45, Issue 2, p. 58
- "The Hubble Deep Field: The Picture Worth a Trillion Stars," (republication), 2016, *Discover*, **V. 37**, Issue 6, p. 78
- "How Astronomers 'Predicted' a Supernova," 2016, Astronomy, V. 44, Issue 8, p. 44
- "The Hubble Deep Field: The Picture Worth a Trillion Stars," 2015, *Astronomy*, **V. 43**, Issue 11, p. 44

- "Kepler Spacecraft's New Lease on Life," 2015, Astronomy, V. 43, Issue 1, p. 44
- "How Astronomers Measure the Cosmos," 2014, Astronomy, V. 42, Issue 11, p. 44
- "What Has Astronomy Done for You Lately?" 2012, Astronomy, V. 40, Issue 4, p. 30
- "Neptune Comes Full Circle," co-authored with William Sheehan, 2011, *Sky & Telescope*, **V. 122**, No. 1, p. 28
- "The Kepler Spacecraft Search for Other Worlds," 2010, Astronomy, V. 38, No. 11, p. 21
- "The Universal Jet Set," 2010, Sky & Telescope, V. 119, No. 4, p. 20
- "The Ugly Side of Gravity," 2009 (republication), Astronomy 2009 Collector's Edition: Cosmology's Greatest Discoveries, October 2009
- "Seven Wonders of the Universe," 2008, *Mercury: The Magazine of the Astronomical Society of the Pacific*, **V. 37**, No. 4, p. 24
- "StarStruck: Where Did the Elements in Our Bodies Come From?" 2008, *Current Science*, Issue 6 (November 14), p. 10
- "Where Did You Come From? (The Astrophysical Origins of the Elements of Life)" 2008, *Sky & Telescope*, V. 115, No. 3, p. 32
- "The REAL Stars of Harry Potter," 2007, *Mercury: The Magazine of the Astronomical Society of the Pacific*, **V. 36**, No. 4 p. 20
- "The Ugly Side of Gravity," 2007, Astronomy, V. 35, No. 8, p. 34
- "Solar Forecast: Storm Ahead," 2007, Sky & Telescope, V. 114, No. 1, p. 36
- "X-Treme Stars," 2006, Astronomy, V. 34, No. 4, p.35, C. R. James & G. H. Marion
- "The Woman Who Cracked the Stellar Code," 2006, Astronomy, V. 34, No. 1, p. 56
- "Reading Between the Lines: The Search for Stellar Recipes," 2005, *Mercury: The Magazine of the Astronomical Society of the Pacific*, **V. 34**, no. 1
- "Debating Origins," 2003, Astronomy, V. 31, no. 9, p. 28
- "Edward and Mina: How a Maid and her Master Changed the Face and Gender of Astronomy Forever," 2002, *Astronomy*, V. 30, No. 7
- "Astronomer Wanted: Job Description ??" Insert essay written for *Explorations 3e*, by Thomas Arny, 2001: McGraw-Hill Publishing

- "An Unforgettable Anatomy Lesson," 1997, Astronomy, V. 25, No. 9, p. 87
- "Standing on the Shoulders of Giants," 1995, *Astronomy*, V. 23, No. 9, p. 16 (C.R. Beveridge [James])
- "So You Want to Be a Professional Astronomer?" 1994, *Astronomy*, V. 22, No. 2, p. 13 (C.R. Beveridge [James])

Astronomy Publications and Presentations

- "The Carina Project IV: Radial Velocity Distribution," 2011, *Publications of the Astronomical Society of the Pacific*, **123**, No. 902, pp 384-401. (M. Fabrizio, M. Nonino, G. Bono, I. Ferraro, P. Francois, G. Iannicola, M. Monelli, F. Thevenin, P.B. Stetson, A.R. Walker, R. Buonanno, F. Caputo, C.E. Corsi, M. Dall'Ora, R. Gilmozzi, C. R. James, T. Merle, L. Pulone, M. Romaniello)
- "Seeking Chemical and Kinematic Correlations Within the Carina Dwarf Spheroidal," 2005, American Astronomical Society Meeting #205, G.K. Nevils, D.L. Koger, C.R. James, M. Monelli, and M. Nonino (poster)
- "Chemical Substructure in the Milky Way Halo: A New Population of Old Stars," 2003, Astrophysical Journal, **592**, 906 (I.I. Ivans, Christopher Sneden, C. R. James, G.W. Preston, J.P. Fulbright, P.A. Hoflich, B.W. Carney, and J.C. Wheeler).
- "Data Acquisition and Instrument Control via a Web Page Using Linux," 2003, *Journal* of Chemical Education, Volume **80**, no. 2, p. 221 (James, C.R. & McCann, M.P.).
- "Determining Oxygen Abundances in Metal-Poor Subdwarfs from the O I Triplet," 2003, American Astronomical Society Meeting #201, C.R. James, C.A. Pilachowski, T. Beers, C. Sneden, and R.M. Cavallo (poster)
- "Spectroscopic Study of the Chemically Unusual Metal-Poor Halo Stars G4-36 and BD+80 245," 2000, American Astronomical Society Meeting #196, C.R. James (poster)
- "The 1995-96 Decline of R Coronae Borealis: High-Resolution Optical Spectroscopy," 1999, *Monthly Notices of the Royal Astronomical Society*, **310**, 717 (Kameswara Rao, N., Lambert, D.L., Adams, M.T., Doss, D.R., Gonzalez, G., Hatzes, A.P., James, C.R., Johns-Krull, C.M., Luck, R.E., Pandey, G., Reinsch, K., Tomkin, J., Woolf, V.M.
- "Chemical and Kinematic Populations in the Galactic Halo," 1998, American Astronomical Society Meeting #193, (poster)
- "The Chemical Composition of Two Nitrogen-Rich, Metal-Poor Halo Dwarf Stars," 1994, *Astronomical Journal*, **108**, 285 (Beveridge [James], C.R. and Sneden, C.)

GRANT PARTICIPATION

- Content Expert/University Partner, Texas Regional Collaborative for Excellence in Science and Mathematics Teaching Grant, PI Susan Bohan, May – August 2017 (Amount requested: \$115,000)
- Co-PI, "ASSET: Astronomy Summer School of East Texas," NASA NNH11ZDA001N-EPOESS (Opportunities in Education and Public Outreach for Earth and Space Science), Co-PI Dr. Scott Miller, May 2012 – August 2014; extended through August 2015 (\$205,811)
- Content Expert/University Partner, Texas Regional Collaborative for Excellence in Science and Mathematics Teaching Grant, PI Susan Bohan, May – August 2013 (\$115,000)
- Participating Scientist, "Middle School Science for English Language Learners (MSSELL)" National Science Foundation Award 0822153, PI Beverly Irby, September 2008 – August 2010 (\$465,228)
- Participating Scientist, "Engaging Hispanics into the Math/Science Pipeline," United States Department of Agriculture (USDA) – Cooperative State Research, Education, and Extension Service (CSREES) grant, PI Bobby Lane and Maya Durnovo, June 2006 – June 2007 (\$240,000)
- PI, "The Carina Dwarf Spheroidal: The Rosetta Stone of Dwarf Galaxy Evolution," Research Corporation, June 2005 – August 2006 (\$44,000)
- PI, Faculty Research Enhancement Grant for "The Carina Dwarf Spheroidal: The Rosetta Stone for Dwarf Galaxy Evolution," Summer 2004 (\$5,000)
- PI, Women's International Science Collaboration Grant from the American Association for the Advancement of Science, "The Carina Dwarf Spheroidal: The Rosetta Stone for Dwarf Galaxy Evolution," December 2003 (\$3,000)
- PI, Faculty Research Enhancement Grant for "Determining the Nucleosynthetic Origins of the Oldest Galactic Stars," Summer 2001 (\$5,000)

AWARDS AND HONORS

- Silver Jubilee Visiting Professor, Edith Cowan Institute for Education Research, Edith Cowan University, Perth, WA, Australia, 3-22 November 2016
- Distinguished Visitor, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Astronomy and Space Sciences, Marsfield, NSW, Australia, 5 February – 18 July 2016

Recipient, SHSU Faculty Development Leave, Spring 2016

Semi-finalist, American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellowship, 2014

Nominated, AAAS Science Journalism Award 2012

Nominated, the Keck Futures Initiative Communication Awards 2012

Nominated, the American Institute of Physics Science Communication Awards 2012

Finalist, SHSU Excellence in Teaching Award, Spring 2012

Speaker of the Year, Texas Astronomical Society, December 2011

Finalist, SHSU Excellence in Research Award, Spring 2011

- Winner, Sagan Day Essay Contest, sponsored by NASA/Kepler, November 2010
- NASA/IGES "Gold Star" (given to 10 educators nationwide) for Inspiring Uses of Hubble in Education, July 2010
- NASA/IGES "Top Star" for Inspiring Uses of Hubble in Education, June 2010
- 2008 Solar Physics Division Popular Writing Award, American Astronomical Society, May 2008

Professor of the Year, Physics Department, SHSU, April 2008

- Finalist, SHSU Excellence in Teaching Award, March 2008
- Elected, Astronomy Education Board of American Astronomical Society, May 2003 May 2006
- Special Recognition Award for Outstanding Contributions to the College of Arts and Sciences, August 2004

PROFESSIONAL DEVELOPMENT

- Attended Critical Thinking Assessment Applications Workshop, 29 September 2017, Sam Houston State University.
- Currently enrolled in Graduate Education Unit: CIED 5383: "Integrating Current Technology in Teaching." [n.b., CIED is the prefix for education units from the Curriculum and Instruction program at SHSU]

- Completion of Graduate Education Unit: CIED 5085 "Current Issues in Education." (August 2017)
- Completion of Graduate Education Unit: CIED 5370 "Research in Teaching." (August 2017)
- Completion of Graduate Education Unit: CIED 6394 "Developing Curriculum for Adults." (June 2017)
- Completion of Graduate Education Unit: CIED 5360 "Advanced Techniques and Methods of Instruction." (May 2017)
- Completion of Graduate Education Unit: CIED 5384 "Curricular Trends for Classroom Teachers." (May 2017)
- Certified College and Career Readiness Initiative Regional Trainer, June 2012
- Participant, "Success in College Science: CCRS and Scientific Applications of Mathematics," San Antonio, TX, March 2012
- Online Faculty Certification, SHSU, August 2008
- Participant, Learner-Centered Astronomy: A Teaching Excellence Workshop, NASA/Center for Astronomy Education, 17-21 July 2006
- Participant, Improving the Introductory Astronomy Courses for Non-Science Majors through Active Learning, January 2006
- Participant, Teaching Excellence Workshop, NASA/Center for Astronomy Education, January 2005; January 2003; June 2001; June 2000; January 1999

SERVICE

Service to University

- Member, Faculty Senate, September 2016 Present; September 2009 August 2014; September 2006 – August 2008
- Member, Quality Enhancement Plan Assessment Group, December 2016; December 2015; May 2015; December 2014; May 2014; December 2013; May 2013; December 2012
- Member, Common Reader Author's Forum Organizing Committee, March 2016 November 2016

- Member, Faculty Grievance Committee, September 2009 August 2015 (committee dissolved)
- Member, Web Governance Council, September 2012 August 2014
- Co-chair, Founder's Day Academics Committee, September 2012 August 2014
- Chair, Faculty Senate, September 2013 August 2014
- Chair-Elect, Faculty Senate, September 2012 August 2013
- Chair, Faculty Senate Subcommittee for Academic Affairs, September 2011 August 2012; September 2009 August 2010
- Member, Faculty Search Committee, Department of Physics, Spring 2011
- Member, Tenure Hearing Committee, September 2009 August 2010
- Faculty Advisor, Society of Physics Students, September 2000 December 2009
- Faculty Advisor, SHSU Chapter of Sigma Pi Sigma (National Physics Honor Society), September 2000 – December 2009
- Member, Excellence in Teaching Committee, September 2005 August 2008
- Member, Quality Enhancement Plan Committee, March 2008 July 2008
- Member, Faculty Search Committee, Department of Physics, Spring 2008
- Chair, Faculty Centennial Scholarship Committee, May 2003 August 2004
- Co-Chair, Faculty Centennial Scholarship Committee, May 2002 May 2003
- Member, Faculty Centennial Scholarship Committee, August 2001 May 2002

Service to Profession

- Co-editor, Proceedings for Robotic Telescopes, Student Research, and Education Conference, August 2017 - Present
- Member, Board of Reviewers for the Journal of Astronomy and Earth Sciences Education, November 2015 – Present
- SHSU Representative to "Building Astronomy in Texas" (multi-university working group), February 2015 Present

Mentor, Conference for Undergraduate Women in Physics (Sponsored by the American Institute of Physics), Rice University, 13 – 15 January 2017

Textbook Reviewer, Understanding Our Universe, 3rd Edition, August – September 2016

- Panelist, National Science Foundation Astronomy Grant Review, 17-18 February 2015
- External Book Reviewer for Johns Hopkins University Press, February 2013; December 2012; September 2012; August 2011; October 2010

Textbook Reviewer, The Physics of Everyday Phenomena 7E, January 2010

- Judge, Chambliss Astronomy Achievement Student Award, 215th Meeting of the American Astronomical Society, January 2010
- Judge, Chambliss Astronomy Achievement Student Award, 211th Meeting of the American Astronomical Society, January 2008
- Co-organizer, ASTRO 101 Education Sessions for 207th 211th Meetings of the American Astronomical Society, January 2006 January 2008
- Co-chair, American Astronomical Society Astronomy Education Board subcommittee on "Research on the Teaching and Learning of Astronomy," March 2006
- Panelist, NASA Space Telescope Science Institute IDEAS Grant, November 2005
- Co-organizer, ASTRO 101 Education Session for 206th Meeting of the American Astronomical Society, June 2005
- Co-organizer, ASTRO 101 Education Session at 203rd Meeting of the American Astronomical Society, January 2004

Service to Community

- Co-organizer/presenter, Montgomery High School field trip, Huntsville, TX, 12-13 December 2016
- Astronomy Presenter, Kent Road Public School, Eastwood, NSW, 24 May 2016
- Science consultant, Rotary Club, Huntsville, TX, USA, May 2016
- Co-organizer, Public Solar Eclipse Viewing, SHSU, 23 October 2014
- Judge, Montgomery High School Science Fair, Montgomery, TX, USA, December 2013
- Moderator, Academic Challenge, SHSU, Huntsville, TX, March 2011; November 2009; April 2006; April 2004; November 2003

- Organizer, Public Lecture at SHSU by Dr. George Coyne, Huntsville, TX, 9 November 2010
- Science Saturdays at Sam Scientist/Facilitator, Huntsville, TX, November 2010; February 2010; November 2009
- Organizer, Astronomy Week at Sam, Huntsville, TX, 19-25 April 2010
- Judge, Academic Challenge, Huntsville, TX, April 2010; November 2002; April 2002; November 2000
- Scientist/Leader, Scout Day at Sam, Huntsville, TX, February 2008
- Sponsor, Camp Invention, sponsored by the National Inventor's Hall of Fame, Huntsville, TX, July 2007
- Organizer, Mercury Transit Authority (public event), SHSU Observatory, Riverside, TX, November 2006
- Director, Camp Invention, sponsored by the National Inventor's Hall of Fame, Huntsville, TX, July 2006
- Organizer, Mars Opposition Party (public event), SHSU Observatory, Riverside, TX, August 2003
- Judge, SHSU Debate and Speech Tournament, Huntsville, TX, October 2002

CURRICULUM DEVELOPMENT

- Co-creator, faculty-led study-abroad sections of PHYS 1403 (Stars and Galaxies) and PHYS 1404 (Solar System Astronomy), with Dr. Scott Miller, for July August 2017
- Adapted PHYS 1404 (Solar System Astronomy) for Academic Community Engagement credit, August 2015
- Creator, ASTR 3383 (Cosmic Catastrophes, junior-level astronomy class for non-science majors), approved by University Academic Affairs Council, December 2016
- Creator, online section of PHYS 1404 (Stars and Galaxies for non-science majors), May 2016

Member, SHSU Core Curriculum Committee, April 2012 - August 2014

- Co-creator, core curriculum proposals for introductory astronomy (with Dr. Scott Miller and Dr. Dave Pooley), September 2012 – August 2013
- Co-creator, faculty-led study-abroad sections of PHYS 1403 (Stars and Galaxies) and PHYS 1404 (Solar System Astronomy), with Dr. Scott Miller, May/June 2012
- Member, College of Arts and Sciences Curriculum Committee, September 2006 August 2008
- Creator, PHYS 1403 (Stars and Galaxies) and PHYS 1404 (Solar System Astronomy) from previous "universe-in-a-semester" class, 2006

STUDENT SUPERVISION

- Lab coordinator/supervisor, PHYS 1403 (Stars and Galaxies) and PHYS 1404 (Solar System Astronomy) undergraduate lab instructors, August 2003 to present.
- Undergraduate research supervisor, Victor Johnston and Richard Toback. "Creating an Interactive Pulsar for Undergraduate Astronomy Instruction," July 2017 to present.
- Honours contract supervisor, Victor Johnston. "Seeking Variations in Dispersion Measures Using PULSE@Parkes Archived Data." August 2016 – December 2016.
- Undergraduate research supervisor, Jacob Crocker. "The Effect of Group Exams on Student Retention." August 2016 December 2016.
- Undergraduate research co-supervisor, Cale Lewis (with S.T. Miller and A. Foster). "Gains in Content Knowledge an ASSET to East Texas Secondary Teachers." June 2013 – January 2014.

INVITED PRESENTATIONS

Invited Speaker, Eldorado Star Party, 20 October 2017.

Invited Speaker, Fort Bend Astronomy Club, 19 May 2017

- Discussion Leader, Academic Community Engagement Center "ACE Challenges Solved" workshop, 7 April 2017
- Invited Guest, "Education Matters" radio show, WGTD, 21 January 2017
- Invited Speaker, Silver Jubilee Professorship, Edith Cowan University, Perth, WA, 15 November 2016
- Featured Speaker, Author's Forum, Sam Houston State University Common Reader Program, Huntsville, TX, 3 November 2016

- Invited Presenter, 13th Annual SHSU Teaching and Learning Conference, Huntsville, Texas, 18 August 2016
- Invited Speaker, CSIRO Astronomy and Space Science, Marsfield, NSW, 22 June 2016
- Invited Speaker, Edith Cowan University, Perth, Western Australia, 17 May 2016
- Invited Speaker, South Pacific Star Party, Wiruna, NSW, 6 May 2016
- Invited Speaker, Astronomical Society of New South Wales, Epping, NSW, 18 March 2016
- Invited Speaker, Fort Bend Astronomy Club, Sugarland, TX, 20 November 2015
- Invited Speaker, Astronomy on Tap TX, Austin, TX, 17 November 2015
- Invited Speaker, Community Conversation, College Station, TX, 20 October 2015
- Invited Speaker, Science Café, Texas A&M, College Station, TX, 20 October 2015
- Invited Speaker, Houston Astronomical Society, Houston, TX, 10 July 2015
- Invited Speaker, Rotary Club of Huntsville, Huntsville, TX, 7 July 2015
- Invited Guest, "Brazos Valley Magazine" television show (KAMU), College Station, Texas, 25 February 2015
- Invited Speaker, Texas A&M University, College Station, Texas, 23 February 2015
- Invited Speaker, Sigma Xi, Kearney, Nebraska, 10 February 2015
- Invited Speaker, University of Nebraska, Kearney, Department of Physics, 10 February 2015
- Invited speaker, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, 15 January 2015
- Presenter, Barnes and Noble, The Woodlands, TX, 9 January 2015
- Invited Speaker, North Houston Astronomy Club, Houston, TX, 24 October 2014
- Invited Presenter, Sally Ride Science Festival, Rice University, Houston, TX 25 October 2014

- Keynote Speaker, Texas Astronomical Society Annual Banquet, Dallas, TX, 8 December 2012
- Invited Speaker, North Houston Astronomy Club, Houston, TX, 27 January 2012
- Public Talk, SHSU Physics Department, Huntsville, TX, 2 November 2011
- Invited Speaker, Texas Astronomical Society, Dallas, Texas, 26 August 2011
- Invited Speaker, Texas Star Party, Ft. Davis, TX, 3 June 2011
- Keynote speaker, Science MINI-Conference for the Advancement of Science Teaching, Beaumont, TX, 26 February 2011
- Planetarium Show Host, Alpha Omega 7th Grade Science Classes, Huntsville, TX, 16 November 2010
- Invited Speaker, Fort Bend Astronomy Club, Sugarland, TX, 17 September 2010
- Invited Speaker, Houston Astronomical Society, Houston, TX, 3 September 2010
- Invited Speaker, Astronomical Society of Southeast Texas, Beaumont, TX, 9 July 2010
- Invited Speaker, North Houston Astronomy Club, Houston, TX, 25 June 2010
- Invited Speaker, Johnson Space Center Astronomical Society, Clear Lake, TX, 11 June 2010
- Speaker, SHSU National Astronomy Week, Huntsville, TX, 21 April 2010
- Speaker, Physics Department Colloquium, Huntsville, TX, 6 April 2010
- Distinguished Lecturer, Conroe Academy for Science and Health, Conroe, TX, March 2010
- Planetarium Show Host, Alpha Omega 7th Grade Science Classes, October 2009
- Planetarium Show Host, Peach Creek Elementary School group, Huntsville, TX, October 2008
- Invited Speaker, "Let's Talk: A Night of Conversation" SHSU Honors Benefit, Huntsville, TX, 27 March 2008
- Distinguished Lecturer, Conroe Academy of Science and Technology, Conroe, TX, January 2008

- Invited Speaker, North Houston Astronomy Club, Houston, TX, 29 August 2005
- Invited Speaker, Stardate: The First Meeting of the Huntsville Amateur Astronomy Society, Huntsville, TX, 30 October 2004
- Speaker, Physics Colloquium, Sam Houston State University, Huntsville, TX, 6 October 2004
- Invited Speaker, Family Science Night at Sam Houston Elementary, Huntsville, TX, January 2004
- Invited Guest, KSAM 101.7 FM, for Mars Opposition, Huntsville, TX, August 2003
- Planetarium show host, Pre-K class of WMC, Huntsville, TX, August 2003
- Invited Speaker, Parmley Elementary School, Willis, TX, January 2003
- Invited Speaker, Colloquium for Women's History Month at SHSU, Huntsville, TX, 21 March 2002
- Invited Speaker/Planetarium tour guide, Bryan-College Station Home-School Group, Huntsville, TX, March 2002
- Speaker, Physics Colloquium, Sam Houston State University, Huntsville, TX, 13 February 2003
- Invited Speaker, Bentwater Country Club, Willis, TX, May 2001
- Speaker, Stellar Seminar, University of Texas at Austin, Austin, TX, 12 April 2000
- Speaker, Physics Colloquium, Sam Houston State University, Huntsville, TX, 9 March 2000

PROFESSIONAL MEMBERSHIPS

American Astronomical Society

Society of Physics Students

Sigma Pi Sigma (Society of Physics Students Honour Society)