

Stephen E. Zepf

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PROFESSIONAL HISTORY

2018 – present	Chair, Department of Physics and Astronomy Michigan State University
2009 – present	Board of Directors, SOAR Telescope, President 2013 - 2015, 2021 - 2023
2009 – 2018	Associate Chair for Astronomy, Dept. of Physics and Astronomy Michigan State University
2004 – 2009	co-Director, Center for the Study of Cosmic Evolution Michigan State University
1999 – 2001	Director of Graduate Studies, Department of Astronomy Yale University

ACADEMIC POSITIONS

2004 – present	Professor, Department of Physics and Astronomy Michigan State University
2001 – 2004	Associate Professor, Department of Physics and Astronomy Michigan State University
1997 – 2001	Assistant Professor, Department of Astronomy, Yale University
1993 – 1997	Hubble Fellow & Assistant Research Scientist, University of California, Berkeley
1991 – 1993	Postdoctoral Fellow, University of Durham

EDUCATION

Ph.D., Physics	Johns Hopkins University
M.A., Physics	Johns Hopkins University
B.S., Physics	University of Notre Dame

AWARDS & FELLOWSHIPS

- Fellow, American Astronomical Society
- Michigan State University Distinguished Faculty Award
- MSU College of Natural Science Faculty Mentoring Award
- MSU Dept. of Physics and Astronomy Osgood Teaching Award
- Hellman Family Fellowship
- Hubble Fellowship

SERVICE - NATIONAL, 2001-

- SOAR Telescope Board of Directors, 2009 - present
 - President, 2013 - 2015, 2021 - 2023
- Chandra X-Ray Telescope Proposal Review Panel, June 2020
- Chair, External Review Committee, Dept. of Physics and Astronomy, University of Alabama, 2019
- Chair, Biennial AAS Astronomy Chairs Meeting, Chicago, IL, Nov. 2016 and Nov. 2014
- NSF proposal review panels, 2017 and 2015
- Chair, NOAO Telescope Allocation Committee Extragalactic Panel, Nov. 2016, 2014
- Chair, Hubble Space Telescope Cycle 24 Proposal Review Panel, June 2016
- Chair, NASA ADAP proposal review panel, Aug. 2015
- Invited panelist, National Academy meeting, Irvine, CA, Oct. 2014.
- Hubble Space Telescope Cycle 22 Proposal Review, June 2014
- Louisiana State NASA EPSCOR proposal review, 2014 and 2013
- Chair, SOAR Observatory Director Search Committee, 2013-2014
- Chair, NOAO Telescope Allocation Committee Extragalactic Panel, Nov. 2013
- Chair, Organizing Committee for Special Session “Black Holes in Globular Clusters” at HEAD meeting, March 2013
- CTIO Director Search Committee, 2012-2013
- Hubble Space Telescope Cycle 20 Proposal Review, May 2012
- NSF Science and Technology Centers Proposal Review, September 2011
- Galactic Neighborhood Science Frontier Panel, National Academy Astro2010: The Astronomy and Astrophysics Decadal Survey, 2009 - 2010
- Co-Chair, Kavli Institute for Theoretical Physics Program on the Formation and Evolution of Globular Clusters, Santa Barbara, CA, Jan-Apr 2009
- Invited contributor, Science with GSMT Workshop, June 2008.
- Hubble Space Telescope Cycle 16 Proposal Review, March 2007
- Chair, Organizing Committee, AAS Special Session “Extragalactic LMXBs”, Jan 2007
- Reviewer for Killam Foundation (Canada) and CONICYT (Chilean NSF), Fall 2006
- NSF panelist CAREER proposal review, October 2005
- Scientific Organizing Committee, CfA Workshop on Galaxies Viewed with Chandra, July 2004
- Chandra Cycle 6 Peer Review, June 2004
- Hubble Space Cycle 12 Telescope Allocation Committee, March 2003
- Co-Chair, Scientific Organizing Committee, KITP workshop, January 2003
- Scientific Organizing Committee, ESO Workshop on Globular Cluster Systems, 2002
- Hubble Space Cycle 11 Telescope Time Allocation Committee, 2001
- NASA LTSA/ADP Review Panel, 2001
- NOAO Telescope Allocation Committee, 2000 - 2002

SERVICE - UNIVERSITY

- Chairperson, Dept. of Physics and Astronomy, 2018 - present
- MSU representative on the SOAR Board of Directors, 2009 - present
 - President, 2013 - 2015, 2021 - current
- Big10 Academic Alliance Department Executive Officer Seminar, 2019
- Associate Chair for Astronomy, Dept. of Physics and Astronomy, 2009 - 2018
- Faculty Liaison, Abrams Planetarium, 2009 - 2018
- Chair, Astronomy/Data Science Faculty Search Committee, 2017 - 2018
- Faculty Advisor for MSU Undergraduate Astronomy Program, 2012 - 2017
- Promotion and Tenure Review Committees, Dept. of Physics and Astronomy, MSU, 2016-2017, 2014-2015, 2009-2010, 2007-2008, 2006-2007, 2005-2006, 2003-2004
- Chair, Astronomy Seminar Series, 2016-2017
- Adhoc Physics & Astronomy Space Allocation Committee, 2004 - 2018
- Chair, Abrams Planetarium Director Search Committee, 2013 - 2014
- co-Chair, Dept. of Physics and Astronomy Colloquia, 2012 - 2013
- Chair, Astronomy Faculty Search Committee, 2011-2012
- Dean's Reappointment, Promotion and Tenure Advisory Committee, Lyman Briggs College, MSU, 2011
- Co-director MSU REF Center "Center for the Study of Cosmic Evolution," 2004 - 2009
- Coordinator for Astronomy and Astrophysics PhD, including P&A Grad Program and Recruitment Committees, 2004 - 2009
- SOAR Scientific Advisory Committee, 2003 - 2009
- Astronomy Seminar Series Chair, Fall 2009
- Salary Review Committee (SRC), 2005 - 2007
- Adhoc Graduate Program Review Committee, 2004
- Adcom (Advisory Committee to the Chair), 2002 - 2004
 - vice-chair, 2003 - 2004
- Faculty Search Committees, HEP experimental 2001-2002, AST 2001-2002, HEP theory 2003, AST/NUC 2002-2003
- Undergraduate Program Committee, 2002 - 2003
- Computer Operations Committee - MSU, 2001 - 2002
- Astronomy Seminar Series Chair - MSU, 2001 - 2003
- Director of Graduate Studies, Yale Astronomy Department, 1999 - 2001.

TEACHING

COURSES TAUGHT AT MICHIGAN STATE UNIVERSITY:

Fall 2022 – AST 207 (Science of Astronomy) 65 students
Fall 2020/Spring 2021 - AST 410 (Senior Thesis), 17 students
Summer 2020 - ISP 205 online, co-taught, 50 students
Summer 2018 - ISP 205 online, 49 students
Fall 2017/Spring 2018 - AST 410 (Senior Thesis), 10 students
Fall 2017 - AST 207 (Science of Astronomy), 51 students
Summer 2017 - ISP 205 online, 60 students
Spring 2017 - ISP 205L (Visions of the Universe Lab), 420 students
Fall 2016 - AST 207 (Science of Astronomy), 88 students
Spring 2016 - ISP 205L (Visions of the Universe Lab), 380 students
Fall 2015 - ISP 205L (Visions of the Universe Lab), 380 students
Spring 2015 - ISP 205L (Visions of the Universe Lab), 460 students
Fall 2014 - ISP 205L (Visions of the Universe Lab), 460 students
Summer 2014 - ISP 205 online, 50 students
Spring 2014 - ISP205L (Visions of the Universe Lab), 500 students
Fall 2013 - ISP205L (Visions of the Universe Lab), 450 students
Summer 2013 - ISP 205 online, 50 students
Spring 2013 - ISP205L (Visions of the Universe Lab), 500 students
Fall 2012 - AST 825 (Galactic Astronomy), 5 students
Spring 2012 - ISP205L (Visions of the Universe Lab), 500 students
Fall 2011 - ISP205L (Visions of the Universe Lab), 500 students
Spring 2011 - ISP 205 (Visions of the Universe), 250 students
Fall 2010 - AST 825 (Galactic Astronomy), 5 students
Spring 2010 - AST912 (Observational Techniques), 4 students
Fall 2009 - ISP 205 (Visions of the Universe), 250 students
Spring 2009 - AST 208 (Observational and Planetary Astronomy), 30 students
Fall 2008 - ISP 205 (Visions of the Universe), 250 students
Spring 2008 - AST 912 (Observational Techniques), 8 students
Fall 2007 - ISP 205 (Visions of the Universe), 250 students
Spring 2007 - AST 208 (Observational and Planetary Astronomy), 31 students
Fall 2006 - AST 825 (Galactic Astronomy), 10 students
Spring 2006 - ISP 205 (Visions of the Universe), 250 students
Fall 2005 - ISP 205 (Visions of the Universe), 250 students

TEACHING, cont.

COURSES TAUGHT AT MICHIGAN STATE, cont.

- Fall 2004 - AST 825 (Galactic Astronomy), 9 students
- Fall 2003 - ISP 205 (Visions of the Universe), 250 students
 - AST 307 (The Milky Way), 24 students
- Spring 2003 - ISP 205 (Visions of the Universe), 250 students
- Fall 2002 - AST 830 (Galaxies and Cosmology), 17 students
- Spring 2002 - ISP 205 (Visions of the Universe), 250 students

COURSES TAUGHT AT YALE UNIVERISTY:

- Spring 2001 - ASTR 430 (Galaxies), ASTR 706 (Formation and Evolution of Galaxies)
- Fall 2000 - ASTR 220 (Intro. to Galaxy and Cosmology), ASTR 710 (Dept. Seminar)
- Spring 2000 - ASTR 710 (Departmental Seminar)
- Fall 1999 - ASTR 430 (Galaxies)
- Spring 1999 - ASTR 500 (Cosmology)
- Fall 1998 - ASTR 220 (Intro. to Galaxy and Cosmology)

MENTORING

JUNIOR FACULTY

- Faculty mentor for Prof. Megan Donahue, who is now a full professor and was named University Distinguished Professor in 2019, following her University Distinguished Faculty Award in 2014.
- Faculty mentor for Prof. Ed Brown, who was promoted to associate professor in 2010, and full professor in 2015, and is now interim dept. chair in the new Computational Mathematics, Science, and Engineering Department at MSU, and
- Faculty mentor for Prof. Jay Strader, who was hired as an assistant professor in 2012, and was awarded a Packard Fellowship in 2015, and promoted to associate professor in 2017, and full professor in 2022.

RESEARCH ASSOCIATES

- Supervised Drs. Gilles Bergond, Maren Hempel, Arunav Kundu, Kwangmin Oh, Mark Peacock, Toro Tsuribe, Stephen Shih, Enrico Vesperini, and Chris Waters.

MENTORING, cont.

PHD STUDENTS

- Supervised recently graduated PhD student Kristen Dage. She is starting as an assistant professor at Curtin University in Australia this fall, after being the first MSU PhD to receive the prestigious Hubble Fellowship.
- Previously supervised the PhD theses of Katherine Rhode (Yale, 2003), Chris Waters (MSU, 2007), and Matthew Steele (MSU, 2012). Dr. Rhode is an associate professor in astronomy at Indiana University, Dr. Waters is a research astronomer at Princeton University, and Dr. Steele is a researcher in science education.
- Served on PhD thesis committees of Matt Steele (chair), Chris Waters (chair), Seth Bruch, Tom Connor, Nathan De Lee, Neelam Dhanda, Alex Diebel, Eric Gingrich, Aaron Hoffer, Thomas Hettinger, Dana Koeppe, Charles Kuehn, Yong-Sun Lee, Brian Marsteller, Murari Regmi, Laura Shishkovsky, Jason Smolinski, Sam Swihart, and David Ventimiglia.
- External Reader for Harvard PhD thesis of Pauline Barmby, now Professor, Western University, Canada

MASTER'S STUDENTS

- Supervised the Master's level theses of Q.C. Zhang, J.H. Woo, and Katherine Rhode at Yale and Jennifer Westbrook, Chris Waters, and Tom Finzell at MSU.

UNDERGRADUATES

- Supervised undergraduate research of Nathan Sanders (2008-2010) who was awarded a Goldwater Scholarship and a NSF Graduate Fellowship. Currently supervising MSU undergraduate Wasundara Athukoralalage. Also supervised senior theses of Omid Naroozi (2018-2019), Tess O'Neal (2015-2016), Colin Paulbeck (2012-2013), Joseph Stoiko (2009-2010), Nathan Sanders (2009-2010), Bill Martinez (2007-2008), Julian von Eye (2007-2008), Ryan Thomas (2006-2007), Nathan Krzyaniak (2005-2006) Elizabeth Blanchfield (2005), Stephanie Simpson (2004-2005), Matthew Ingber (2003-2004), Josh Hubbell (2003), Andrew Hungerford (2001-2002), and Mary-Katherine McGovern (1999-2000).
- Supervised MSU REU students Andrew Esselman 2006, Nikolette Lustic 2004, and Jessica Uscinski 2002

HIGH SCHOOL STUDENTS

- Supervised Julia Chael in the summer 2015 High School Honors Science Program (HSHSP). She submitted her work from the summer to the Siemens Competition and was selected as a Semifinalist. Also supervised Kelly Kilts in the 2002 HSHSP program.

PUBLIC OUTREACH AND POPULAR PUBLICATIONS

- Interview, Detroit Free Press, October 8, 2021
- Interview on Voice of America, October 6, 2020
- Public talk at Cleveland Museum of Natural History, April 2019
- Public talks at Abrams Planetarium, March 2019, November 2017, January 2017
- Interview for NHK (Japanese public television) program on globular cluster formation, February 2016
- Public talk at Abrams Planetarium, October 2015
- Presentation on SOAR Telescope at MSU Science Festival, April 2015
- Public talk at Abrams Planetarium, November 2014
- Presentations to MSU Distinguished Scholarship Candidates, February 2013 and 2012
- Presentation to Owosso school group, October 2010
- MSU astronomy Science University presentation, April 2010
- Public talk at Abrams Planetarium, March 2010
- BBC, UPI, and other press coverage of 2008 ApJL paper on black holes in globular clusters.
- Public talk at Abrams Planetarium, March 2008.
- MSU Society for Physics Students Speaker, February 2008
- Presentation to Okemos High School students, December 2007
- Public talk at Abrams Planetarium, February 2007.
- Extensive press coverage of Nature paper published in Jan 2007.
- Public talk at Kalamazoo Math and Science Center, May 2006.
- Public talk at Abrams Planetarium, February 2006.
- Radio interview on Voice of America, April 25, 2005.
- Public talk at Abrams Planetarium, February 2005.
- Public Talk in the Cosmic Horizons Series at Abrams Planetarium, January 2004.
- Article written by invitation for *Scientific American*, published in October 2003 issue.
- Presentation on SOAR Telescope to Okemos High School Class, November 2003.
- Quoted in Sciencenow commenting on a recent ApJL paper, Jan. 15, 2003.
- Research work highlighted in two news articles in Science, January 3, 2003, vol. 299.
- CNN, Reuters, and others from a Nature paper on the Brightness of Cepheid Variables and the Rate of Expansion of the Universe, Sept. 21, 1999.
- New York Times National Edition and others, Stellar Populations and Dark Matter in the Halos of Spiral Galaxies, Jan. 7, 1999

GRANT HISTORY

Current Federal Funding

PI, Chandra GO Program, “Characterizing the Nature of Globular Cluster ULX Sources in NGC 1399,” 07/31/23 - 07/30/25, \$23,439

PI, Chandra GO Program, “The hunt for a new ultra-compact X-ray binary in M87's globular cluster system,” 03/09/23 - 03/08/25, \$21,001

PI, HST AR Program, “Far-ultraviolet insights into multiple populations in extragalactic globular clusters,” 12/1/20 – 11/30/24, \$41,060

PI, Chandra GO Program, “The LMXB Population of NGC 3998: Testing for an Extreme IMF,” 09/08/21 – 09/07/24, \$59,960

Past

PI, Chandra GO Program, “A high spatial resolution X-Ray survey of the halo of M87,” 03/09/20 - 03/08/24, \$74,600

PI, DOE Argonne, “Support for Sean Couch sabbatical at Argonne National Laboratory,” 09/01/21 – 05/31/22, \$81,987

PI, Chandra GO Program, “The Nature of the Two Globular Cluster ULXs in the Galaxy NGC 4472,” 04/08/19 - 04/17/22, \$58,745

co-I, Chandra AR Program, “Do LMXB populations vary among old early-type galaxies,” 01/29/20 - 01/28/22, \$27,239

PI, JPL/NASA, “Complete Spectral Characterization of a newly discovered ULX,” 01/08/21 - 09/26/21, \$20,000

PI, NASA, “X-ray Binaries and the IMF in Early-Type Galaxies,” 04/01/15 - 03/30/19, \$284,827

PI, NSF, “Developing Direct Observational Tests of the Formation of Multiple Stellar Populations in Globular Clusters,” 08/01/14 - 07/31/18, \$181,603

PI, HST GO Program “Testing Models of the Black-Hole X-ray Source in the NGC 4472 Globular Cluster RZ2109 with COS UV Spectroscopy,” 07/01/2015 - 06/30/2018, \$67,535

PI, HST AR Program “Use of Wide-Field ACS Mosaics to Determine Total Properties of Globular Cluster Systems,” 07/01/2015 - 06/30/2018, \$84,281

PI, Chandra GO Program, “Long-term X-ray and Optical Study of the Black Hole X-ray Binaries in the Elliptical Galaxy NGC 4472,” 04/01/14 - 03/30/18, \$51,113

co-PI, MSU REF Center “Center for the Study of Cosmic Evolution” 07/01/04 - 06/30/09 \$1,500,000

PI, Chandra AR Program, “X-Raying the IMF of Elliptical Galaxies,” 02/01/14 – 02/28/16, \$39,997

Past Grant History, Continued

PI, NASA, “Extragalactic Black-Hole X-Ray Sources in Globular Clusters and the Field,” 04/01/11 - 03/30/15, \$220,305

PI, NASA, “The Origin and Evolution of LMXBs and Their Connection to Globular Clusters,” 04/01/08-03/31/14, \$234,675

PI, Chandra GO program, “Low luminosity AGN and low mass black holes in nearby dwarf galaxies,” 1/01/11 - 12/31/13, \$20,908

PI, Chandra GO Program, “A New Look at the X-Ray Binary Richest Galaxy,” 09/01/10 - 08/31/2013, \$17,865.00

PI, NSF, “Emission Lines and Black-Hole Activity in Extragalactic Globular Clusters,” 08/01/08 - 07/31/12, \$170,137

PI, Chandra Archival Program, “The Dependence of LMXBs on the Encounter Rate in Globular Clusters from an Archival Analysis of Very Deep Data for M87,” 1/01/09 - 12/31/12, \$42,500

PI, HST General Observer Program “The Nature of the Black Hole in a NGC 4472 Globular Cluster and the Origin of Its Broad [OIII] Emission,” 12/01/09 - 11/30/12, \$84,690

PI, Chandra General Observer Program “Understanding the Low-Mass X-ray Binaries in the Sculptor Dwarf Spheroidal,” 09/15/08 - 09/14/11, \$49,738

Co-I, NASA/Drexel, “Dynamical Evolution of Young & Old Globular Clusters & Globular Cluster Systems,” 04/01/08-03/31/12, \$38,360 (MSU share)

PI, HST General Observer Program “Determining the Structural Parameters of the First Globular Cluster Found to Host a Black-Hole X-ray Binary,” 01/01/08 - 12/31/10, \$78,808

PI, Chandra Archival Program, “Testing for Spectral Differences between LMXBs in Metal-Rich and Metal-Poor GCs and Their Implications,” 12/01/07/ - 11/30/09, \$58,500

co-I, HST Archival Research Program “Blue Tilts and Other Properties of Halo Globular Clusters in Nearby Galaxies - Cosmological or Observational Bias? ,” 09/01/07 - 08/31/10, \$93,000

MSU sponsor of postdoc Dr. A. Kundu’s NASA LTSA Grant “Multiwavelength Study of the Globular Cluster Systems of Ellipticals and S0s,” 03/15/03 - 03/14/09, \$556,806

co-I, HST General Observer Program “A Deep H-band Probe of the Globular Cluster Mass Function,” 01/01/06 - 12/31/08, \$40,000

PI, NSF, “Collaborative Project: An Investigation of the Formation and Evolution of Globular Cluster Systems and Their Host Galaxies,” 08/15/04 - 08/14/07, \$243,848

PI, HST General Observer Program “Globular Cluster Systems of Elliptical Galaxies in Low Density Environments,” 08/01/05 - 10/31/08, \$77,554

co-I, Chandra Archival Program, “Probing the Effects of Globular Cluster Age on Low

Past Grant History, Continued

Mass X-ray Binary Formation,” 11/01/06 - 10/31/08, \$63,500

PI, Spitzer GO Program, “Testing Stellar Population Models with Observations of Intermediate-Age Globular Clusters in NGC 4365,” 09/01/04 - 8/31/07, \$12,200

PI, HST General Observer Program “Microlensing in M87 and the Virgo Cluster,” 08/01/05 - /7/31/07, \$18,005

PI, Chandra Archival Program, “An Archival Study of the Origin and Evolution of LMXBs in Elliptical Galaxies,” 11/01/04 - 10/31/06, \$62,990

co-I, XMM Observer Program, “A Deep Look at the Ursa Minor Dwarf Spheroidal Galaxy,” 09/15/05 - 09/14/07, \$22,200

PI, HST General Observer Program “The Age and Mass Function of the Intermediate Age Globular Cluster System of NGC 4365,” 08/01/03 - /7/31/06, \$35,696

co-I, NSF Advanced Technology and Instrumentation, “Wide-Field Upgrade for the Spartan Infrared Camera,” 08/01/03 - 07/31/05, \$148,787

PI (for US Funding), Chandra GO Program, “Using the Sculptor Dwarf Spheroidal galaxy to Constrain X-ray Binary Production in Population II,” 04/01/04 - 03/31/06, \$31,117

PI, NASA Long-Term Space Astrophysics Research Program “The Formation History of Galaxies: Constraints from Globular Cluster Systems and Deep Multi-Wavelength Surveys,” 06/01/00 - 05/30/06, \$598,360

PI, Chandra Archival Program, “An Archival Study of the Relationship between Globular Clusters and LMXBS in Elliptical Galaxies,” 11/01/02 - 10/31/05, \$77,994

PI, HST General Observer Program “The Formation Epoch(s) of Globular Clusters Around Ellipticals from Ultraviolet Photometry,” 03/01/01 - 08/31/04, \$68,499

PI, HST General Observer Program, “Pixel Microlensing,” 09/01/00 - 08/31/04, \$76,210

PI, NASA Astrophysics Theory Program “Globular Cluster Formation,” 04/01/00 - 05/30/04, \$311,653

PI, HST Archival Program “The Radii and Destruction Timescales of Globular Clusters in NGC 3610, 09/01/00 - 08/31/04, \$36,000

co-I, HST Archival Research Program, “The Evolution of the Globular Cluster System of M87,” 05/01/01 - 02/29/04, \$59,500

PI, HST General Observer Program, “Weighing the Stellar Halo of NGC 5907 with NICMOS,” 05/15/98 - 05/14/00, \$83,170

PI, The Concentration of Tidal Radii of Globular Clusters in Virgo Ellipticals,” 05/01/98 - 04/30/00, \$39,183

PUBLICATIONS

CURRENT SUMMARY

Google Scholar: 10389 citations, 24 papers > 100 citations, h-index 53

Over 1/2 of all papers have my students and postdocs or myself as first author

Books

Ashman, K.M., and Zepf, S.E. “Globular Cluster Systems,” 1998, Cambridge University Press.

Refereed Articles

1. Zepf, S.E., and Koo, D.C. “Close Pairs of Galaxies in Deep Sky Surveys,” 1989, ApJ, 337, 34.
2. Zepf, S.E., Whitmore, B.C., and Levison, H.F. “Optical Colors of Early-Type Galaxies in Compact Groups,” 1991, ApJ, 383, 524.
3. Zepf, S.E., and Whitmore, B.C. “Modelling the Evolution of Galaxies in Compact Groups,” 1991, ApJ, 383, 542.
4. Ashman, K.M., and Zepf, S.E. “The Formation of Globular Clusters in Merging and Interacting Galaxies,” 1992, ApJ, 384, 50.
5. Zepf, S.E. “The Frequency of Mergers in Compact Groups,” 1993, ApJ, 407, 448.
6. Zepf, S.E., and Whitmore, B.C. “The Structure and Dynamics of Elliptical Galaxies in Compact Groups,” 1993, ApJ, 418, 72.
7. Zepf, S.E., and Ashman, K.M. “Globular Cluster Systems Formed in Galaxy Mergers,” 1993, MNRAS, 264, 611.
8. Ribeiro, A.L., de Carvalho, R.R., and Zepf, S.E. “The Luminosity Function of Galaxies in Compact Groups,” 1994, MNRAS, 267, L13.
9. Cole, S., Aragón-Salamanca, A., Frenk, C.S., Navarro, J.F., and Zepf, S.E. “A Recipe for Galaxy Formation,” 1994, MNRAS, 271, 781
10. de Carvalho, R.R., Ribeiro, A.L., and Zepf, S.E. “Structural Properties of Compact Groups,” 1994, ApJS, 93, 47.
11. Ashman, K.M., Bird, C.M., and Zepf, S.E. “Detecting Bimodality in Astronomical Datasets,” 1994, AJ, 108, 2348.
12. Zepf, S.E., Geisler, D., and Ashman, K.M. “The Richness of Globular Cluster System of NGC 3923: Clues to Elliptical Galaxy Formation,” 1994, ApJL, 435, L117.

PUBLICATIONS (p. 2)

13. Ashman, K.M., Conti, A., & Zepf, S.E. “Globular Cluster Systems as Distance Indicators: Metallicity Effects on the Luminosity Function,” 1995, *AJ*, 110, 1164
14. Zepf, S.E., Carter, D., Sharples, R.M., & Ashman, K.M., “Spectroscopy of Young Globular Clusters in NGC 1275,” 1995, *ApJL*, 445, L19.
15. Zepf, S.E., Ashman, K.M., and Geisler, D. “Constraints on the Formation History of the Elliptical Galaxy NGC 3923 from the Colors of Its Globular Clusters,” 1995, *ApJ*, 443, 570.
16. Ribeiro, A.L.B., de Carvalho, R.R., Coziol, R., Capelato, H.V., & Zepf, S.E. “HCG 16: A High Concentration of Active Galaxies in the Nearby Universe,” 1996, *ApJL*, 463, L5.
17. Zepf, S.E., & Silk, J. “On the Effects of Bursts of Massive Star Formation During the Evolution of Elliptical Galaxies,” 1996, *ApJ*, 466, 114.
18. Bridges, T.J., Ashman, K.M., Zepf, S.E., Carter, D.C., Hanes, D.A., Sharples, R.M., & Kavelaars, J.J. “Kinematics and Metallicities of Globular Clusters in M104,” 1997, *MNRAS*, 284, 376.
19. Zepf, S.E., de Carvalho, R.R., & Ribeiro, A.L.B. “The Faint End of the Luminosity Function of Galaxies in Hickson Groups,” 1997, *ApJL*, 488, L11.
20. Zepf, S.E., Moustakas, L.A., & Davis, M. “Keck Spectroscopy of Objects with Lens-like Morphologies in the Hubble Deep Field,” 1997, *ApJL*, 474, L1.
21. de Carvalho, R.R., Ribeiro, A.L.B., Capelato, H.V., & Zepf, S.E. “A Redshift Survey of Faint Galaxies around a Selected Sample of Compact Groups,” 1997, *ApJS*, 110, 1.
22. Zepf, S.E. “The Absence of Passively Evolving Ellipticals in Deep Optical and Near-Infrared Surveys,” 1997, *Nature*, 390, 377.
23. Ribeiro, A.L.B., de Carvalho, R.R., Capelato, H.V., & Zepf, S.E. “Structural and Dynamical Analysis of the Hickson Compact Groups,” 1998, *ApJ*, 497, 72.
24. Sharples, R.M., Zepf, S.E., Bridges, T.J., Hanes, D.A., Carter, D., Ashman, K.M., Geisler, D. “Spectroscopy of Globular Clusters in NGC 4472,” 1998, *AJ*, 115, 2337.
25. Kundu, A., Whitmore, B.C., Sparks, W.B., Macchetto, D., Zepf, S.E., & Ashman, K.M. “The Globular Cluster System in the Inner Region of M87,” 1999, *ApJ*, 513, 733.

PUBLICATIONS (p. 3)

26. Mobasher, B., Guzman, R., Aragon-Salamanca, A., & Zepf, S.E. “Near-Infrared Fundamental Plane of Elliptical Galaxies,” 1999, MNRAS, 304, 225.
27. Kissler-Patig, M., Ashman, K.M., Zepf, S.E., & Freeman, K.C. “HST Imaging of Globular Clusters in the Edge-on Spiral Galaxies NGC 4565 and NGC 5907,” 1999, AJ, 118, 197.
28. Zepf, S.E., Ashman, K.M., English, J., Freeman, K.C., & Sharples, R.M. “HST Imaging of Candidate Young Globular Clusters in the Galaxy Merger NGC 3256,” 1999, AJ, 118, 752.
29. Maoz, E., Newman, J.A., Ferrarese, L., Stetson, P. B., Zepf, S.E., Davis, M., Freedman, W.L., & Madore, B.F. “A Cepheid Distance to NGC 4258,” 1999, Nature, 401, 351
30. Newman, J., Zepf, S.E., Davis, M., Freedman, W.L., Madore, B.F., Stetson, P.B., Silbermann, N., & Phelps, R. “A Cepheid Distance to NGC 4603 in the Centaurus Cluster,” 1999, ApJ, 523, 506.
31. Zepf, S.E., Liu, M.C., Marleau, F.R., Sackett, P.D., & Graham, J.R. “The Stellar Content of the Halo of NGC 5907 from Deep HST NICMOS Imaging,” 2000, AJ, 119, 1701.
32. Beasley, M.A., Sharples, R.M., Bridges, T.J., Hanes, D.A., Zepf, S.E., Ashman, K.M., & Geisler, D. “Ages and Metallicities of Globular Clusters in NGC 4472,” 2000, MNRAS, 318, 1249.
33. Zepf, S.E., Beasley, M.A., Bridges, T.J., Hanes, D.A., Sharples, R.M., Ashman, K.M., & Geisler, D. “Dynamical Constraints on the Formation of NGC 4472 and Its Globular Clusters,” 2000, AJ, 120, 2928.
34. Newman, J.A., Ferrarese, L., Stetson, P.B., Maoz, E., Zepf, S.E., Davis, M., Freedman, W.L., & Madore, B.F. “A Revised Cepheid Distance to NGC 4258,” 2001, ApJ, 553, 562.
35. Rhode, K.L., & Zepf, S.E. “The Globular Cluster System in the Outer Regions of NGC 4472,” 2001, AJ, 121, 210.
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105. Peacock, M.B., & Zepf, S.E. “The X-Ray Luminosity Function of Low-mass X-Ray Binaries in Early-type Galaxies, Their Metal-rich, and Metal-poor Globular Clusters,” 2016, *ApJ*, 818, 33
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115. Dage, K.C., Zepf, S.E., Bahramian, A., Strader, J., Maccarone, T.J., Peacock, M.B., Kundu, A., Steele, M.M., & Britt, Christopher T. “Slow decline and rise of the broad [O III] emission line in globular cluster black hole candidate RZ2109,” 2019, MNRAS, 489, 4783
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118. Dage, K.C., Zepf, S.E., Thygesen, E., Bahramian, A., Kundu, A., Maccarone, T.J., Peacock, M.B., & Strader, Jay “X-ray spectroscopy of newly identified ULXs associated with M87’s globular cluster population.” 2020, MNRAS, 497, 596
119. Dage, K.C., Kundu, A., Thygesen, E., Bahramian, A., Haggard, D., Irwin, J.A., Maccarone, T.J., Nair, S., Peacock, M.B. Strader, J., & and Zepf, S.E. ”Three ultraluminous X-ray sources hosted by globular clusters in NGC 1316,” 2021, MNRAS, 504, 1545

and approximately 200 conference proceedings, meeting abstracts, and other similar publications outside of refereed journals.

INVITED TALKS, COLLOQUIA, and SEMINARS

- June 2019, MODEST-19 Meeting, Bologna, “Evidence for the Ubiquity of Multiple Populations from Far-Ultraviolet Observations of Extragalactic GCs,” cont. talk
- April 2019, Cleveland Museum of Natural History, “Black Holes in Globular Clusters,” public talk
- April 2019, Case Western Reserve University, “Evidence for the Ubiquity of Multiple Populations from Far-Ultraviolet Observations of Extragalactic GCs,” seminar
- January 2015, Aspen Meeting, “Black Holes in Dense Star Clusters,” invited review
- March 2013, HEAD Meeting, Chair of Special Session, “Black Holes in Globular Clusters”
- January 2012, AAS Meeting, Austin, NASA ADAP session, invited talk
- June 2011, Aspen Summer Program “Stellar and Intermediate Mass Black Holes”
- January 2011, AAS Meeting, Seattle, NASA ADAP session, invited talk
- November 2010, University of Durham, colloquium,
- November 2010, Cambridge University, seminar
- November 2010, University of Southampton, Astronomy seminar
- February 2010, Aspen Winter Conference “Formation and Evolution of Black Holes,” talk
- January 2010, AAS Meeting, Washington DC, contributed talk
- December 2009, University of Indiana, colloquium
- April 2009, “Intermediate-Mass Black Holes: from First Light to Galactic Nuclei,” Irvine, CA, talk
- March 2009, Kavli Institute for Theoretical Physics, Astrophysics seminar
- February 2009, Michigan State University, Astronomy seminar
- January 2009, “Formation and Evolution of Globular Clusters,” KITP, Santa Barbara, session chair and lead discussant
- November 2008, Albion College, Physics and Astronomy Dept. Seminar
- September 2008, George Washington University, Astronomy Seminar
- June 2008, “Science with GSMT: Public Participation in TMT and GMT,” science use case talk

INVITED TALKS, cont.

- March 2008, Ohio-Region American Physical Society Meeting, Youngstown, OH, plenary talk
- January 2008, “Surveys and Simulations of Large-Scale Structure,” Lawrence Berkeley Laboratory, invited talk
- October 2007, Waterloo University, seminar
- September 2007, Dynamical Evolution of Dense Stellar Systems, IAU Symposium 246, Capri, Italy, invited talk
- August 2007, The Globular Clusters - Dwarf Galaxies Connection, Ann Arbor, MI, invited talk
- May 2007, Northwestern University, Astrophysics seminar
- January 2007, Chair, Special Session, 209th AAS meeting.
- March 2006, “Globular Clusters: Guides to Galaxies”, Concepcion Chile, invited talk
- March 2006, Space Telescope Science Institute, colloquium
- November 2005, Durham University, colloquium
- November 2005, University of Southampton, seminar
- November 2005, Oxford University, seminar
- August 2005, MODEST-6 meeting, Northwestern University
- May 2005, KIPAC Stanford/SLAC, lunch talk
- November 2004, Ohio University, seminar
- October 2004, Columbia University, colloquium
- July 2004, Galaxies Viewed with Chandra, daily review and summary
- May 2004, LBL, Wide-Field Imaging from Space, contributed talk
- March 2004, Wesleyan University, colloquium
- February 2004, Penn State University, colloquium
- November 2003, Michigan State University, colloquium
- October 2003, University of Missouri, Kansas City, colloquium

INVITED TALKS, cont. (p. 3)

July 2003, IAU General Assembly, JD 11, invited talk
May 2003, Great Lakes Cosmology Workshop, invited talk
January 2003, Session Chair, Santa Barbara ITP workshop
September 2002, Michigan State University, colloquium
August 2002, ESO Workshop on Extragalactic Cluster Systems, invited review
March 2002, Case Western University, colloquium
November 2001, Ringberg Meeting on Elliptical Galaxies, invited talk
May 2001, Yale Workshop of Galaxy Halos, invited review talk
April 2001, University of Washington, seminar
March 2001, IAU Symposium 207, Pucon, Chile, invited review talk
February 2001, Michigan State University, seminar
January 2001, Aspen Winter Astrophysics Conference
August 2000, IPAC/SIRTF Science Center
May 2000, Harvard-Smithsonian Center for Astrophysics
January 2000, Boston University, colloquium
August 1999, Universidad de Chile, colloquium
February 1999, SUNY Stony Brook, colloquium
May 1999, AAS Special Session, invited review
January 1999, Aspen Winter Conference, invited talk
January 1999, AAS session chair
October 1998, Rutgers University, colloquium
September 1998, University of Wisconsin, colloquium
June 1998, Aspen Summer Workshop, invited talk
February 1998, University of Massachusetts, colloquium
January 1998, Aspen Winter Conference “Universal Star Formation”

INVITED TALKS, cont. (p. 4)

- October 1997, Columbia University, colloquium
- September 1997, Wesleyan University, colloquium
- September 1997, Yale University, colloquium
- August 1997, IAU Symposium 187, “Galaxy Interactions”
invited review
- March 1997, Indiana University, colloquium
- February 1997, Space Telescope Science Institute, colloquium
- January 1997, Aspen Winter Conference, “Observational Tests of Cosmological Parameters”
- December 1996, IfA, University of Hawaii, colloquium
- November 1996, University of California, Berkeley, colloquium
- November 1996, IGPP, Lawrence Livermore Laboratory, colloquium
- October 1996, Yale University, colloquium
- August 1996, Second Stromlo Symposium, “The Nature of Elliptical Galaxies”,
contributed talk
- June 1996, Aspen Summer Astrophysics Workshop, “Galaxy Interactions at Low and High Z”, talks in workshop format
- March 1996, Center for Particle Astrophysics, UCB, colloquium
- March 1996, Berkeley-Strasbourg Workshop on “The Role of Baryons in Cosmology”,
session chair
- February 1996, University of Pittsburgh, colloquium
- November 1995, University of California, Santa Cruz, colloquium
- September 1995, IoA, Cambridge University, colloquium
- September 1995, SantAgata, Italy, Conference on “Interacting Galaxies”,
invited review
- April 1995, University of California, Los Angeles, colloquium
- March 1995, Mt. Stromlo Observatory, colloquium

INVITED TALKS, cont. (p. 5)

February 1995, University of Virginia, colloquium

February 1995, Stanford University, colloquium

October 1994, IGPP, Lawrence Livermore Laboratory, seminar

July 1994, IoA/RGO Conference on “Wide Field Spectroscopy and the Distant Universe”,
contributed talk

June 1994, UC Berkeley/CfPA Miniworkshop on Galaxy Evolution, invited talk

April 1994, University of California, Santa Cruz, colloquium

March 1994, Cerro Tololo Inter-American Observatory, seminar

February 1994, University of California, Berkeley, colloquium

October 1993, La Palma Observatory, seminar

October 1993, University of Durham, colloquium

September 1993, Center for Particle Astrophysics, UCB, seminar

June 1993, Kapteyn Institute, University of Groningen, colloquium

May 1993, Institut d’Astrophysique, Paris, colloquium

May 1993, Observatoire de Meudon, colloquium