Space Telescope Science Institute 3700 San Martin Drive Baltimore, MD 21218 USA tel: (410) 338-4467 email: lotz@stsci.edu web: jenlotz.github.io

1994

EDUCATION	PH.D., ASTROPHYSICS Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, USA "The History of the Evolution of Dwarf Galaxies"	2003
	MASTERS OF ARTS, ASTROPHYSICS Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, USA	1998
	A.B., WITH HONORS, PHYSICS & ASTRONOMY Bryn Mawr College, Bryn Mawr, Pennsylvania, USA	1996
RESEARCH INTERESTS	GALAXY EVOLUTION, GALAXY MERGERS, OBSERVATIONAL COSMOLOG	ξΥ
PROFESSIONAL APPOINTMENTS	ASSOCIATE ASTRONOMER with tenure Space Telescope Science Institute, Baltimore, Maryland, USA	2016-present
	ASSOCIATE ASTRONOMER Space Telescope Science Institute, Baltimore, Maryland, USA	2013-2016
	ASSOCIATE RESEARCH SCIENTIST Department of Physics and Astronomy, Johns Hopkins University, Baltimore, Maryland, USA	2012-present
	ASSISTANT ASTRONOMER Space Telescope Science Institute, Baltimore, Maryland, USA	2010-2013
	LEO GOLDBERG FELLOW National Optical Astronomy Observatory, Tucson, Arizona, USA	2005-2010
	POSTDOCTORAL FELLOW Department of Physics & Lick Observatory, University of California, Santa Cruz, California, USA	2002-2005
	GRADUATE RESEARCH FELLOW Space Telescope Science Institute, Baltimore, Maryland, USA	1996-2002
	RESEARCH ASSISTANT Centre for Gravitational Physics, University of Glasgow, U.K.	1996
	RESEARCH EXPERIENCE for UNDERGRADUATES INTERN Smithsonian Astrophysical Observatory, Harvard-Smithsonian Center for Astrophysics, Cambridge, Massachusetts, USA	1995

RESEARCH EXPERIENCE for UNDERGRADUATES INTERN

Maria Mitchell Observatory, Nantucket, Massachusetts, USA

GRANTS AWARDED	NATIONAL SCIENCE FOUNDATION, Astronomy & Astrophysics PI. J. Lotz; Tracking the Metamorphosis of Galaxy Structures	2015-2018 total award: \$381,534
	NASA, Hubble Space Telescope Cycle 23 PI. C. Papovich, Co-I. J. Lotz;	2015-2018
	The CANDELS Lyman-alpha Emission At Reionization (CLEAR) Experiment	Co-I award: \$130,832
	NASA, Hubble Space Telescope Cycle 23 PI. R. Livermore, Co-I. S. Finkelstein, M. Boylan-Kolchin, J. Lotz, M. Song	2015-2018
	Searching for faint high-z galaxies in the Hubble Frontier Fields	Co-I award:
	NASA, Hubble Space Telescope Cycle 22 PI. J. Lotz; Galaxy Mergers, AGN, and Quenching in $z > 1$ Proto-Clusters	2015-2017 total award: \$121,592
	NASA, Hubble Space Telescope Cycle 22 PI: G. Snyder, Admin PI. J. Lotz;	2015-2017
	Observing the Origins of Galaxy Structure in the Illustris Simulations	total award: \$126,767
	STScI Director's Discretionary Funds PI: J. Lotz; Constraining the Orbital Distribution of Galaxy Mergers with Tidal Tails	2014 total award: \$8,000
	STScI Director's Discretionary Funds PI: J. Lotz; Tracking Galaxy Morphological Evolution with Unsupervised Machine Learn	2014 ning total award: \$8,000
	NASA, Hubble Space Telescope Cycle 20 PI: J. Lotz; An Astrostatistical Approach to Distant Galaxy Morphology	2013-2016 total award: \$318,408
	NASA, Hubble Space Telescope Cycle 19 PI: C. Papovich, Co-I J. Lotz; Galaxy Assembly at High Densities	2012-2013 Co-I award: \$35,651
	STScI Director's Discretionary Funds PI: J. Lotz; Constraining the Orbital Distribution of Galaxy Mergers with Tidal Tails	2012-2014 total award: \$45,000
	STScI Startup Funds PI: J. Lotz	2010-2014 total award: \$45,000
	NASA, GALEX Space Telescope Cycle 6 PI: J. Lotz; The Evolutionary Paths of Green Valley Galaxies	2010-2012 total award: \$39,000
	NASA, Hubble Space Telescope Cycle 15 PI: J. Lotz; A Multi-Wavelength Study of Galaxy Mergers out to $z\sim2$	2005-2007 total award: \$99,970
	NOAO/NSF, Leo Goldberg 5-year fellowship <i>PI: J. Lotz</i>	2005-2010 total award: ~\$500,000
RESOURCES AWARDED	XSEDE Research Grant; Open Science Grid: 408,743 SU PI. G. Snyder; Co-I. J. Lotz; Testing and Applying Robust Automated Galaxy Morpholo	2016-2017 ogy Diagnostics
	XSEDE Research Grant: Open Science Grid: 680,000 SU PI. J. Lotz; Constraining the Initial Conditions of Major Galaxy Mergers Using IDEN	2015-2016 TIKIT
	XSEDE Startup Grant; Open Science Grid: 150,000 SU; SDSC Cluster 50 PI. G. Snyder; Co-I. J. Lotz; Testing galaxy physics by modeling observations with simu	

SELECTED OBSERVING PROGRAMS	Hubble Space Telescope Cycle 21-23, Director's Discretionary Time, 840 orbits <i>PI. J. Lotz; Hubble Frontier Fields</i>	2013-2016
	Hubble Space Telescope Cycle 23, GO program, 130 orbits PI. C. Papovich; Co-I J. Lotz; The CANDELS Lyman-alpha Emission At Reionization (CLEAR)	2015-2017 Experiment
	Large Millimeter Telescope; Early Science PI. A. Pope; A New "Frontier" for the LMT: Dust-obscured Activity in Galaxies that Dominate the Cosmic Star Formation History	2014
	European Southern Observatory/Very Large Telescope VIMOS PI. L. Pentericci & R. McLure; VANDELS -A deep VIMOS survey of the CANDELS UDS and	2014 d CDFS fields
	National Radio Astronomical Observatory/Very Large Array PI. G. Rudnick Detecting $CO[1-0]$ in the star-forming galaxies of a $z=1.62$ galaxy cluster	2014
	Hubble Space Telescope Cycle 20 GO Program, 24 orbits PI. K.V. Tran, Co-I J. Lotz; At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy Clusters at z~2	2012-2013
	National Optical Astronomy Observatory/ WIYN SparsePak 2011B, 2 PI. A. Mortazavi*, Co-I J. Lotz; SparsePak Kinematics of Tidally Interacting Galaxy Pairs	2012A; 2013A
	Apache Point Observatory/ARC 3.5 m DIS PI. A. Mortazavi*, Co-I J. Lotz; SparsePak Kinematics of Tidally Interacting Galaxy Pairs	2011, 2012
	Hubble Space Telescope Cycle 19, GO Program, 24 orbits PI. M. Cooper, Co-I J. Lotz; Measuring the Star-Formation Efficiency of Galaxies at $z > 1$	2011-2012
	Hubble Space Telescope Multi-Cycle Treasury Program, 902 orbits PI. S. Faber, H. Ferguson, Co-IJ. Lotz, Cosmic Assembly Near-infrared Extragalactic Legacy Surv	2010-2014 ey(CANDELS)
	National Optical Astronomy Observatory/ WIYN SparsePak PI. J. Lotz, Galaxy Merger Kinematics, Star-formation, and Feedback	2008A
	(* = student-lead project)	
AWARDS & HONORS	STSCI STAFF SERVICE AWARD JWST Documentation Working Group Lead	2017
	ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY TEA Hubble Frontier Fields team	M AWARD 2016
	STSCI STAFF SERVICE AWARD JWST Parallel Study/JWST Efficiencies Working Group	2015
	DISTINGUISHED VISITOR Haverford College, Haverford, Pennsylvania, USA	2014
	DISTINGUISHED VISITOR Dark Cosmology Centre, University of Copenhagen, Copenhagen, Denmark	2014
	STSCI STAFF SERVICE AWARD	

Frontier Fields Implementation Team Lead

2014

	STSCI STAFF SERVICE AWARD JWST NIRCAM Instrument Team	2014
	LEO GOLDBERG FELLOWSHIP National Optical Astronomy Observatory, Tucson, Arizona, USA,	2005
CONFERENCES ORGANIZED	Spectral Diagnostics to explore the Cosmic Dawn with JWST SOC, STScI workshop, Baltimore, Maryland	8/2017
	Probing the New Frontiers with Cluster Lenses SOC, EWASS Symposium, Athens, Greece	7/2016
	What Shapes Galaxies. ² co-chair, STScI Spring Symposium, Baltimore, Maryland	4/2016
	The Reionization Epoch: New Insights and Future Prospects SOC, Aspen Center for Physics winter meeting, Aspen, Colorado	3/2016
	SDSS-IV MaNGA Galaxy Mergers mini-workshop SOC, ASIAA, Taipei, Taiwan	11/2015
	Frontier Fields: Transforming our Understanding of Cluster and Galaxy Evolution, SOC, IAU focus meeting, Honolulu, Hawaii	8/2015
	Mocking the Universe, SOC, STScI workshop, Baltimore, Maryland	7/2015
	The Many Pathways to Galaxy Growth, SOC, Prato, Italy	6/2015
	Back at the Edge of the Universe: Latest results from the deepest astronomical surveys, SOC, Sintra, Portugal	3/2015
	Yale Frontier Fields Workshop, SOC, Yale University, New Haven, Connecticut	11/2014
	Thirty Meter Telescope Science Forum, SOC, Tucson, Arizona	7/2014
	Science Results from Pan-STARRS1, SOC, STScI workshop, Baltimore, Maryland	6/2014
	Galaxy Zoo: Evolutionary Paths in Galaxy Morphology, SOC, Sydney, Australia,	9/2013
	Cluster Lensing: Peering into the Past, Planning for the Future, SOC, STScI workshop, Baltimore, Maryland	4/2013
	CANDELS team z~2 mini-workshop, chair, STScI, Baltimore, Maryland	2/2011

RECENT TALKS & COLLOQUIA	
(2012-2017)	

Astronomy Colloquium University of California, Los Angles, California 2/2017 invited talk at A Symposium in Honor of Frank Cepollina: Extraordinary Science enabled by servicing the Hubble STScI, Baltimore, Maryland 12/2016 invited talk at In Situ View of Galaxy Formation Schloss Ringberg, Bavaria, Germany 11/2016 contributed talks at Exploring the Universe with 7WST - II Montreal, Canada 10/2016 conference summary, What Shapes Galaxies? STScI Spring Symposium, Baltimore, Maryland 4/2016 Astronomy Seminar Carnegie Mellon University, Pittsburgh, Pennsylvania 4/2016 invited talk at The Reionization Epoch: New Insights and Future Prospects Aspen Center for Physics winter meeting, Aspen, Colorado 3/2016 Large UV/Optical/Infrared Surveyor Seminar NASA-Goddard Space Flight Center, Greenbelt, Maryland (remote) 2/2016 invited talk at Cenus, Evolution, Physics Yale University, New Haven, Connecticut 11/2015 Astronomy Colloquium ASIAA, Taipei, Taiwan 11/2015 invited talk at MaNGA Galaxy Mergers mini-workshop ASIAA, Taipei, Taiwan 11/2015 invited talk at Exploring the Universe with 7WST European Space Agency/ESTEC, Noordwijk, Netherlands 10/2015 invited talk at Frontier Fields: Transforming our Understanding of Clusters and Galaxy Evolution, IAU Focus meeting,, Honolulu, Hawaii 8/2015 contributed talk at Galaxies at High Redshift and their Evolution over Cosmic Time, IAU Symposium, Honolulu, Hawaii 8/2015 contributed talk at The Many Pathways to Galaxy Growth, Prato, Italy 6/2015 contributed talk at Innovative Cosmological Simulations with Machine Learning and Statistics in the era of LSST, Pittsburgh, Pennsylvania 6/2015 invited talk at *Hubble 2020*, STScI Spring Symposium, Baltimore, Maryland 4/2015 local talk for CoolSci, STScI, Baltimore, Maryland 1/2015

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RECENT TALKS & COLLOQUIA (2012-2017)	HST AAS Townhall presentation, AAS Winter 2015 meeting, Seattle, Washington	1/2015
	Distinguished Visitor Colloquium, Department of Astronomy Haverford College, Haverford, Pennsylvania	12/2014
	invited talk at Yale Frontier Fields workshop, Yale University, New Haven, Connecticut	11/2014
	Astronomy Colloquium, University of Delaware, Newark, Delaware	9/2014
	contributed talk at the Santa Cruz Galaxy workshop, University of California, Santa Cruz, California	8/2014
	Astronomy Colloquium, NRAO/University of Virgina, Charlottesville, Virginia	5/2014
	Astronomy Colloquium, University of Maryland, College Park, MD	5/2014
	invited talk at Science with the Hubble Space Telescope IV, Rome, Italy	3/2014
	Yale Center for Astronomy & Astrophysics Seminar, Yale University, New Haven, Connecticut	2/2014
	invited talk at Near Field-Deep Field Connection workshop, University of California, Irvine, California	2/2014
	Astronomy Colloquium, NASA-Goddard Space Flight Center, Greenbelt, MD	12/2013
	Department of Physics & Astronomy colloquium, University of Kansas, Lawrence, Kansas	10/2013
	invited talk at Galaxy Zoo: Evolutionary Paths in Galaxy Morphology, Sydney, Australia	9/2013
	invited talk at <i>Thirty Meter Telescope Science Forum</i> , Waikoloa, Hawaii	7/2013
	invited review at Morphology in Era of Large Surveys, Royal Astronomical Society, London, U.K.	5/2013
	Department of Physics & Astronomy Colloquium, Tufts University, Boston, Massachusetts	4/2013
	Department of Astronomy Colloquium, Penn State University, State College, Pennsylvania	3/2013

MPIE/MPA/ESO/Munich University Joint Astronomy Colloquium, Garching, Germany

1/2012

COLLABORATIONS

Frontier Fields

Principal Investigator/Implementation Team Lead

Cosmic Assembly Near-infrared Extragalactic Deep Legacy Survey (CANDELS)

Galaxy Morphology Working Group lead (2010-2012); Executive Committee

Large Synoptic Survey Telescope (LSST)

contributor to LSST Science Book; Extra-galactic science team member; Galaxy morphology group lead

Pan-STARRS

STScI working group member

After-SDSS III / Mapping Nearby Galaxies at APO (MaNGA)

MaNGA Galaxy Mergers Working Group/external collaborator

Thirty Meter Telescope Early Universe Science Definition Team contributor to TMT Science Case; TMT Community Science Meeting SOC

DEep Extragalactic Probe (DEEP) & AEGIS teams

HST data and galaxy morphology lead

PROFESSIONAL MEMBERSHIPS

American Astronomical Society; International Astronomy Union

COMMUNITY SERVICE

Thirty Meter Telescope Science Advisory Committee

2013-2016

US Thirty Meter Telescope Science Working Group

2013-

Hubble Deep Fields Initiative Science Working Group

2012

National Optical Astronomy Observatory Users Committee

2012

Hubble Fellow selection committee

National Optical Astronomy Observatory Goldberg Fellow search committee

National Science Foundation Astronomy & Astrophysics panel member

National Science Foundation Postdoctoral Fellow selection committee

Spitzer Space Telescope Extra-Galactic panel member

Hubble Space Telescope Extra-Galactic panel member

National Optical Astronomy Observatory Extra-Galactic TAC member

2008-2010

STSCI APPOINTMENTS	Sabbatical (1 year)	2017-2018
	JWST Documentation Working Group lead	2015-2017
	Science Mission Office - JWST Policies group	2013-
	Science Mission Office - HST TAC Panel organizer	2013-2016
	HST Frontier Fields Implementation Team lead	2012-
	JWST NIRCam Operations Lead	2012-2013
	JWST NIRCam Proposal Planning System Lead	2010-2013
STSCI/AURA SERVICE	STScI Giacconi and Lasker postdoctoral fellowship search committee (chair)	2017
	AURA Report on the Future of UVOIR Space Astronomy red team reviewer	2015
	Advanced Technology Large Aperture Space Telescope Science Definition Team	2013
	STScI Colloquium committee	2015-2016
	Hubble Deep Fields Initiative Science Working Group	2012
	STScI Research Support Advisory Committee	2010-2013
	STScI Honors & Awards committee	2011-2015
	STScI Galaxy Journal Club faculty sponsor	2011-present
	STScI Giacconi Postdoctoral Fellowship search committee	2012
STUDENTS & POSTDOCS SUPERVISED	Rohan Kane, high school intern, Baltimore Polytechnic Institute, Ingenuity Program	2017-
301 LIVIOLD	Vicente Rodriguez-Gomez, postdoctoral fellow, Johns Hopkins University	2016-
	Michael Peth, Ph.D. thesis student, Johns Hopkins University Using Machine Learning to Study the Relationship between Galaxy Morphology and Evolution	2011-2016
	Alireza Mortazavi, Ph.D. thesis student, Johns Hopkins University Constraining the Initial Conditions of Galaxy Mergers	2011-2016
	Greg Snyder, postdoctoral fellow, STScI	2013-2015
	Conor McPartland, summer undergraduate student, STScI	2013
	Erica Jones, Kitt Peak REU summer student, NOAO	2009
	Matthew Zagursky, Kitt Peak REU summer student, NOAO	2008
	Christina Pierce, Ph.D. thesis student with J. Primack, UCSC Active Galactic Nuclei and Merging Galaxies at $z\sim 1$	2004-2008

	Seth Cottrell, undergraduate thesis student with J. Primack, UCSC	2005
	Tela Favaloro, undergraduate thesis student with J. Primack, UCSC	2004
	Laura White, summer student with H. Ferguson, STScI	2000
	Rosemary Telford, summer student with H. Ferguson, STScI	1999
THESIS COMMITTEES	Bingxiao Xu, PhD, Johns Hopkins University, Baltimore, Maryland,	2017
	Connor Bottrell, MSc, University of Victoria, B.C., Canada	2016
	Mohammad Safarzadeh, PhD, Johns Hopkins University, Baltimore, Maryland	2016
	Alison Mann, PhD, University of Copenhagen, Copenhagen, Denmark	2014
	Zheng Zheng, PhD, Johns Hopkins University, Baltimore, Maryland	2014
	Greg Snyder, PhD, Harvard University, Cambridge, Massachusetts,	2013
	Yun-Kyeong Sheen, PhD, Yonsei University, Seoul, Korea	2011
EDUCATION/OUTREACH	NASA-JPL Museum Alliance Universe of Learning Science Briefing (remote) The Frontier Fields: NASA's Great Observatories Team Up to View the Distant Universe	2016
	STScI Public Lecture, Baltimore, Maryland The Frontier Fields: a Sneak Peek at the First Billion Years of the Universe	2014
	Hubble 25th deep field video contribution; http://hubble25th.org/video/5	2015
	Hubble Science Briefing (remote) The Frontier Fields	2014
	Frontier Fields Google Hangouts	2013, 2014
	eBook "Reach for the Stars: Touch, Look, Listen, Learn" video contribution https://itunes.apple.com/us/book/reach-for-the-stars/id763516126?mt=11	2014
	STScI Public Lecture, Baltimore, Maryland Collisions in the Cosmos	2013
	Dixie State University, St. George, Utah Collisions in the Cosmos	2010
	Steward Observatory, Tucson, Arizona Collisions in the Cosmos	2006
	Co-instructor, <i>The Distant Universe</i> , Hartnell Community College, Salinas, CA	2004, 2005
	Project adviser for Stars, Sight, and Science California State Summer School for Mathematics & Science, Santa Cruz, CA	2005
	Center for Adaptive Optics Professional Development Workshop	2004

MEDIA/PRESS	featured in Astronomy magazine, Galaxy Clusters: The universe's Cosmic Lenses	2/2017
	interviewed for National Geographic: Hubble's Amazing Universe	2016
	NASA Frontier Fields image release, television interviews for Star Trek's 50th anniversary	2016
	Hubble 25th anniversary, HST Science Writer's workshop presentation	2015
	AAS Winter 2015, HST Science Writer's workshop presentation	2015
	AAS Winter 2014, press conference, Abell 2744 press release; >200 million views http://hubblesite.org/newscenter/archive/releases/survey/frontier-fields/2014/01/	2014
	Frontier Fields announcement press release http://hubblesite.org/newscenter/archive/releases/survey/frontier-fields/2013/44/	2013
	NASA/STScI press release, "Astronomers Pin Down Galaxy Collision Rate" http://www.nasa.gov/mission_pages/hubble/science/collision-rate.html	2011