Dawn Erb

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Research Interests

Galaxy formation and evolution

Low mass galaxies at all redshifts

Evolution of the circumgalactic and intergalactic medium at high redshift

Chemical evolution, kinematics and stellar populations of galaxies at high redshift

Feedback processes in starburst galaxies

Gas ejection and accretion in high redshift galaxies

Employment _____

University of Wisconsin-Milwaukee Milwaukee, WI

Associate Professor, Department of Physics 2014 – present

University of Wisconsin-Madison Madison, WI

Visiting Associate Professor, Department of Astronomy 2014 - present

University of Wisconsin-Milwaukee Milwaukee, WI

Assistant Professor, Department of Physics 2010 - 2014 **University of Wisconsin-Madison**

Visiting Assistant Professor, Department of Astronomy 2010 - 2014

Madison, WI

2019

University of California Santa Barbara Santa Barbara, CA

Spitzer Postdoctoral Fellow 2008 - 2010

Harvard-Smithsonian Center for Astrophysics Cambridge, MA

CfA Postdoctoral Fellow 2005 - 2008

Education

California Institute of Technology Pasadena, CA

Ph.D. Astrophysics 2005

• "The Properties of Star-Forming Galaxies at z~2: Kinematics, Stellar Populations, and Metallicities" — Research Advisor: Professor Charles C. Steidel

University of Washington Seattle, WA

B.S. Physics, Summa cum laude

2000 B.S. Astronomy, Summa cum laude

Grants and Proposals _____

The Extreme Census of the Local Universe: The Most Highly Ionized Galaxies in the Northern Sky

Total extramural funding \$1,675,000

National Science Foundation \$381,351

The Extreme Galaxy Reference Sample: Low Metallicity Galaxies Across Cosmic Time 2019

UWM Research Growth Initiative \$73,000

NASA Keck PI Data Awards \$100,100 total

9 nights (KCWI, LRIS, MOSFIRE, ESI) 2013 - 2019

JANUARY 2, 2020

Space Telescope Science Institute	3 orbits, \$50,972
The Brightest Lens in the Sky: Stellar Populations on ~50 pc Scales at the Peak Epoch of Star Formation	Hubble Space Telescope Cycle 25 (2017)
Space Telescope Science Institute	7 orbits, \$62,595
Lyman-alpha Imaging at ~20 pc Resolution in a Low Mass Lensed Galaxy at z=1.85	Hubble Space Telescope Cycle 24 (2016)
Space Telescope Science Institute The Evolution of C/O in Low Metallicity Dwarf Galaxies (PI Danielle Berg)	20 orbits, UWM budget \$113,360 Hubble Space Telescope Cycle 24 (2016)
Space Telescope Science Institute Stellar Populations and Physical Conditions at ~100 pc Resolution in a Lensed Galaxy at z~4 (PI Danielle Berg)	2 orbits, \$7,625 Hubble Space Telescope Cycle 23 (2015)
National Science Foundation Early Career Award CAREER: The Early Stages of Galaxy Evolution	\$779,965 2013
Space Telescope Science Institute Gaseous outflows from low mass galaxies: Understanding local laboratories for high redshift star formation (PI Alaina Henry)	26 orbits, UWM budget \$18,000 Hubble Space Telescope Cycle 20 (2012)
NASA Herschel Science Center The Herschel Proto-cluster Survey: SPIRE Mapping of the Nodes of the Cosmic Web at z>2 (PI Yuichi Matsuda)	UWM budget \$9,647 OT2 (2012)
Space Telescope Science Institute The Bottom of the Iceberg: Faint z~2 Galaxies and the Enrichment of the IGM	30 orbits, UWM budget \$93,000 Hubble Space Telescope Cycle 19 (2011)
Space Telescope Science Institute 3D-HST: A Spectroscopic Galaxy Evolution Treasury (PI Pieter van Dokkum)	248 orbits, UWM budget \$42,000 Hubble Space Telescope Cycle 18 (2010)
UWM Research Growth Initiative The Youngest Galaxies in the Young Universe	\$307,000 2010
Awards and Honors	
Kavli Fellow, National Academy of Sciences Kavli Frontiers of Science	2018
UWM Research Foundation Award	2017
Spitzer Fellowship	2008
Center for Astrophysics Fellowship	2005
Baer Prize in Astronomy	University of Washington, 2000
Higgs-Osborn Prize in Experimental Physics	University of Washington, 2000
Outreach	
Advisor, UWM Astronomy Club	2010 – present
Co-founder, UWM Women in Physics group	2017 – present
Maker Faire Milwaukee: Center for Gravitation, Cosmology & Astrophysics booth	2016, 2017, 2019
Public lectures Osher Lifetime Learning Institute UWM Science Bag Wehr Astronomical Society	2012 – 2019

NCRAL 2014: Gazing at the Stars
James Madison High School, Milwaukee
Milwaukee Astronomical Society
Vieau School, Milwaukee

Service and Appoinments _____

Gemini Telescope Board of Directors 2017 - 2019 **Hubble Space Telescope Users Committee** 2015 - 2019 Associate Editor, Publications of the Astronomical Society of Australia 2013 - 2015 **NOAO** telescope allocation committee 2012 - 2015 2006, 2010, 2013, 2016, 2019 (panel **Hubble Space Telescope review panel** chair) Spitzer Space Telescope review panel 2010, 2011 (panel chair) **NASA Postdoctoral Program review** 2011 **NSF** review panel 2007, 2008, 2010 **NRAO** proposal review 2007 - 2008 **Peer review** 2004 – present

Nature, Science, The Astrophysical Journal, The Astrophysical Journal Letters, The Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Publications of the Astronomical Society of the Pacific

Teaching _____

Astronomy 103: Survey of Astronomy

Spring 2013, 2014, 2015, 2017, 2018,
2019; Fall 2015, 2017, 2019

Astronomy 320: Astronomy II: Extragalactic Astronomy and Cosmology Spring 2011

Astronomy 401: Astrophysics II: Extragalactic Astrophysics and Cosmology Spring 2013

Astronomy 401/Physics 903: Astrophysics II: Extragalactic Astrophysics and Cosmology Spring 2015, 2017, 2019

Physics 817: Cosmology

Fall 2011, Spring 2014, Spring 2018,
Fall 2019

Invited Conference Presentations

Mapping the circumgalactic medium with Lyα emission

September 2019

GMT Community Science Meeting, Carlsbad, CA

Small galaxies, big halos: Lyα emission in the CGM of low-mass galaxies at z~2

Small Galaxies, Cosmic Questions, Durham, UK

Lyα Emission and the Circumgalactic Medium in Low Mass Galaxies

June 2019

What matter(s) between galaxies, Spineto, Italy

Lya Emission and the Circumgalactic Medium in Low Mass Galaxies September 2018

Escape of Lyman radiation from galactic labyrinths, Kolymbari, Crete, Greece

Lyα Emission in Low Metallicity Galaxies at z~2

March 2018

Tokyo Spring Sakura Cosmic Ly α Workshop, University of Tokyo

Observing Outflows at High Redshifts October 2017

Characterizing Galaxies with Spectroscopy with a view for JWST, Lorentz Center, Leiden, Netherlands

Star Formation and Feedback in Low Metallicity Galaxies at z~2

April 2017

Keynote presentation, MidAmerican Regional Astrophysics Conference, University of Kansas

JANUARY 2, 2020

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University of Michigan	January 2008
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