

Isak G. B. Wold

Department of Astronomy, The University of Texas at Austin
2515 Speedway, Stop C1400
Austin, TX 78712 USA

phone: +1 608 770 3728
email: wold@astro.as.utexas.edu
web: <http://www.as.utexas.edu/astronomy/people/people.html?u=279>

Employment

Postdoctoral Fellowship, The University of Texas at Austin, Department of Astronomy Austin, TX
Advisor: Dr. Steven Finkelstein September 2014 - Present

Education

University of Wisconsin-Madison, 2007 - 2014 Madison, WI

Ph.D. in Astronomy, July 2014; Advisor: Prof. Amy Barger

M.S. in Astronomy, August 2009; Graduate Minor in Physics

Old Dominion University, 2002-2006 Norfolk, VA

Master of Engineering Management, August 2006

Navy Nuclear Power and Prototype Training, 2000-2001 Charleston, SC

Advanced Coursework in Math, Thermodynamics, Chemistry, Physics, Electrical Engineering and Materials.

Hands-on study of design and operation of complex engineering systems in a naval nuclear power plant.

United States Naval Academy, 1996-2000 Annapolis, MD

B.S. in Physics, May 2000

Presentations

Talks

A Faint Flux-Limited LAE Sample at $z = 0.3$, NMSU Colloquium, Las Cruces, NM, September 2017.

A Faint Flux-Limited LAE Sample at $z = 0.3$, UT Postdoc Colloquium, Austin TX, March 2017.

Do High Equivalent Width LAEs Exist in the Local Universe? Insights from a Flux-Limited GALEX LAE sample at $z \sim 0.3$, Cosmic Lyman-Alpha Workshop, Snowbird, UT, March 2017.

Do High Equivalent Width LAEs Exist in the Local Universe? Insights from a Flux-Limited GALEX LAE sample at $z \sim 0.3$, UW Colloquium, Madison WI, December 2016.

Lyman alpha emitters at $z \sim 1$, Star Formation History of the Universe, MIAPP, Garching Germany, July, 2015.

Evolution of Lyman-alpha Emitting Galaxies: Insights from Flux-Limited GALEX Samples, Exgal Seminar, Austin TX, May 2015.

Evolution of Ly α Emitting Galaxies: Insights From a Flux-Limited GALEX Sample at $z \sim 1$, Lyman Alpha as an Astrophysical Tool, Stockholm Sweden, September 2013.

Evolution of Ly α Emitting Galaxies: Insights From a Flux-Limited GALEX Sample at $z \sim 1$, First Annual GMT Community Science Meeting, Chicago IL, June 2013.

A Search for the Lowest Metallicity Galaxies at $z=0.8$, American Astronomical Society (AAS) meeting, Indianapolis IN, June 2013.

Evolution of Ly α Emitting Galaxies: Insights From a Flux-Limited GALEX Sample at $z \sim 1$, American Astronomical Society (AAS) meeting, Long Beach CA, January 2013.

Evolution of Ly α Emitting Galaxies: Insights From a Flux-Limited GALEX Sample at $z \sim 1$, GALEXFEST, Pasadena CA, September 2012.

Posters

A Faint Flux-Limited Lyman Alpha Emitter Sample at $z=0.3$

Wold, I., Finkelstein, S., Barger, A., Cowie, L., 2017, American Astronomical Society, Austin, TX

Big Data In Shela: Investigating Star-Formation Regulation At High Redshift With Progenitors Of Massive Quiescent Galaxies

Stevans, M., Finkelstein, S., **Wold, I.**, et al., 2017, Galaxy Evolution Across Time Conference, Paris, France

Constraining the End of Reionization with Deep Lyman-alpha Spectroscopy

Jung, I., Finkelstein, S., Livermore, R., **Wold, I.**, Larson, R., 2017, American Astronomical Society, Austin, TX

Broadband and Narrowband Search for $z < 1$ Analogs of High Redshift Star Forming Galaxies

Rosenwasser, B., Barger, A., **Wold, I.**, Cowie, L., 2017, American Astronomical Society, Austin, TX

Towards Better Simple Stellar Population Modeling of Active Galaxies Using Diffusion K-Means and SALT.

Mosby, G., **Wold, I.**, Sheinis, A., Richards, J., 2012, American Astronomical Society, Austin, TX

Is the Universe Under-Dense at $z < 0.1$?

Keenan, R., Barger, A., Cowie, L., Wang, W.-H., **Wold, I.**, Trouille, L., 2011, Argentina Association of Astronomy, San Juan

Population Synthesis Modeling of QSO Host Galaxies.

Wold, I. & Sheinis, A. 2007, American Astronomical Society, Austin, TX

Observing awarded

Keck 10m telescope - DEIMOS (PI)

2014-2017

What Makes a Ly α Galaxy a Ly α Galaxy?

PI: I. Wold, NASA 2014A, 2014B, 2016A, 2016B, 2017B (5 nights)

SALT 11m - RSS-LS (PI)

2013

GALEX Emission Line Galaxies: Ly α Emitters at $z \sim 1$

PI: I. Wold, UW 2013 Semester 1 (14 queue hours)

AAT 4m telescope - AAOmega+2dF (Co-I)

2013

Is the Universe Underdense at $z < 0.1$?

PI: A. Barger, NOAO 2013A (3 nights)

Keck 10m telescope - DEIMOS (PI)

2012

GALEX Emission Line Galaxies: Ly α Emitter Galaxies at $z \sim 1$

PI: I. Wold, NASA 2012B (1 night)

SALT 11m - RSS-LS (PI)

2012

GALEX Emission Line Galaxies: Ly α Emitters at $z \sim 1$

PI: I. Wold, UW 2012 Semester 2 (27 queue hours)

WIYN 3.5m telescope - Hydra (Co-I)

2012

Testing for a Local Underdensity with the Near-Infrared Luminosity Function

PI: A. Barger, UW 2012B (2 nights)

Keck 10m telescope - DEIMOS (PI)

2011

GALEX Emission Line Galaxies: Young Galaxies Beginning Star Formation

PI: I. Wold, NASA 2012A (1 night)

SALT 11m - RSS-LS (PI)

2012

GALEX Emission Line Galaxies: Ly α Emitters at $z \sim 1$

PI: I. Wold, UW 2012 Semester 1 (25 queue hours)

Observing awarded (Cont)

Keck 10m telescope - DEIMOS (PI)	2011
<i>A Search for High Redshift ($z>4$) Ultraluminous Infrared Galaxies</i>	
PI: I. Wold, NASA 2011B (1 night)	
SALT 11m - RSS-MOS (Co-I)	2011
<i>GALEX Emission Line Galaxies: Young Galaxies Beginning Star Formation</i>	
PI: A. Barger, UW 2011 Semester 2 (15 queue hours)	
WIYN 3.5m telescope - Hydra (Co-I)	2011
<i>Extreme Star-Forming Galaxies from $z=0$ to 2</i>	
PI: A. Barger, UW 2011B (3 nights)	

Observing Experience

Keck 10m telescope - DEIMOS , Mauna Kea, Hawaii (nine nights of optical spectroscopy).
Subaru 8.2m telescope - FMOS , Mauna Kea, Hawaii (four nights of NIR spectroscopy).
Mayall 4m telescope - NEWFIRM , Kitt Peak, Arizona (five nights of NIR imaging).
WIYN 3.5m telescope - Hydra , Kitt Peak, Arizona (eighteen nights of optical spectroscopy).
UH 2.2m telescope - ULBCAM infrared camera , Mauna Kea, Hawaii (seven nights of NIR imaging).
UH 2.2m telescope - Tektronix camera , Mauna Kea, Hawaii (three nights of optical imaging).

Academic Distinctions and Grants

UW Vilas Conference Presentation Grant	2013
Stebbins Award of the University of Wisconsin-Madison Astronomy Department	2012
Recognition of scientific independence, leadership and creativity; external recognition in papers and talks; and ability to communicate research to a scientific audience.	
Wisconsin Space Grant Consortium Fellowship	2011
Sigma Xi Grant	2010
UW Vilas Research Travel Grant	2010