

Sara D. Barber

CONTACT INFORMATION

Graduate Research Assistant
Department of Physics and Astronomy
The University of Oklahoma
440 W. Brooks St.
Norman, OK 73019 USA

Citizenship: United States
Mobile: +1-405-618-1555
Fax: +1-405-325-7557
E-mail: sara.d.barber@ou.edu
Web: www.nhn.ou.edu/~barber

REFERENCES

Mukremin Kilic

University of Oklahoma
(405) 325-3961 x36331
kilic@ou.edu

John Debes

Space Telescope Science Institute
(410) 338-4782
debes@stsci.edu

John Cowan

University of Oklahoma
(405) 325-3961 x36210
cowan@mail.nhn.ou.edu

EDUCATION

University of Oklahoma

Ph.D., *Physics*, (anticipated) May 2015

Thesis: *Remnant Planetary Systems at Massive White Dwarfs*

Adviser: Mukremin Kilic

M.S., *Physics*, December 2011

Thesis: *The Frequency of Debris Disks at White Dwarfs*

Adviser: Mukremin Kilic

B.S., *Astrophysics*, May 2009

Thesis: *Photometric Analysis of Asteroids*

Adviser: William Romanishin

AWARDS

University of Oklahoma

- OU Office of Trademark Licensing/Majestic Athletic Grant, \$1,000
- OU Three Minute Thesis Competition, \$500
- Harriet Harvey Memorial Scholarship, \$500
- Thatcher Hoffman Smith Creativity in Motion Prize, \$10,000
- College of Arts & Sciences Travel Funding, \$400
- Robberson Travel & Research Grant, \$500

Spitzer Science Center

- Spitzer Cycle 10 Program 10062, PI, 3.5 hours
- Spitzer Cycle 9 Program 90212, PI, \$5,000/15 hours

Gemini Observatory

- Gemini 2014B Program GN-2014B-Q-57, PI, 3 hours

TEACHING EXPERIENCE

University of Oklahoma

Teaching Assistant

- ASTR 1514: General Astronomy Laboratory – Fall 2010, Spring 2011, Fall 2011
- PHYS 2424: Physics II for Life Science Majors – Fall 2009

SERVICE

University of Oklahoma

Lunar Sooners, Fall 2014 - Present

- President and Co-Founder
- Using a joint \$10,000 grant, a fellow graduate student, [Jeremy Lusk](#), and I founded an outreach organization. We recruited ~20 fellow University of Oklahoma students to join us in conducting outreach events, free of charge, for all interested individuals and groups all across Oklahoma.

University of Oklahoma English Assessment Program, Fall 2014

- TEACH Test Panelist
- Helped to certify the proficiency of non-native speakers of English who serve in positions of instruction at the University of Oklahoma.

University of Oklahoma Graduate Student Senate, Fall 2013

- Senator
- Represented the Homer L. Dodge Department of Physics & Astronomy.
- Served on Human Diversity Committee.

NASA

NASA Origins of Solar Systems (OSS) Panel, August 2013

- Executive Secretary
- Responsible for recording panel votes and discussion. I also collected and submitted all paperwork for each proposal to the panel organizers.

REFEREED
JOURNAL
PUBLICATIONS

- (1) **Sara D. Barber**, Mukremin Kilic, Warren R. Brown, A. Gianninas, "Dusty WDs In The Wise All Sky Survey $\cap$ SDSS", ApJ, 786, 77, May 2014.
- (2) A. Gianninas, J. J. Hermes, Warren R. Brown, P. Dufour, **Sara D. Barber**, Mukremin Kilic, Scott J. Kenyon, Samuel T. Harrold, "SDSS J074511.56+194926.5: Discovery Of A Metal-Rich And Tidally Distorted Extremely Low Mass White Dwarf", ApJ, 781, 104, February 2014.
- (3) **S. Barber**, A. J. Patterson, M. Kilic, S. K. Leggett, P. Dufour, J. S. Bloom, D. L. Starr, "The Frequency of Debris Disks at White Dwarfs", ApJ, 760, 26, November 2012.
- (4) M. Kilic, A. J. Patterson, **S. Barber**, S. K. Leggett, and P. Dufour, "The Discovery of a Debris Disc Around the DAV White Dwarf PG 1541+651", MNRAS, 419, L59, January 2012.
- (5) Karen M. Leighly, Matthias Dietrich, and **Sara Barber**, "The Discovery Of The First He I λ 10830 Broad Absorption Line Quasar", ApJ, 728, 94, February 2011

CONFERENCE
PRESENTATIONS

Talks

- *19th European White Dwarf Workshop*, August 2014
- *44th Mid-American Regional Astrophysics Conference*, April 2014
- *43rd Mid-American Regional Astrophysics Conference*, April 2013
- *221st American Astronomical Society*, January 2013
- *42nd Mid-American Regional Astrophysical Conference*, April 2012

Posters

- *Habitable Worlds Across Time and Space*, April 2014
- *180th American Association for the Advancement of Science*, February 2014
- *223rd American Astronomical Society*, January 2014
- *299th International Astronomical Union Symposium*, June 2013
- *18th European White Dwarf Workshop*, August 2012