

CURRICULUM VITAE

Rachel J. Worth

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Astronomy & Astrophysics
The Pennsylvania State University
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Education

- Current Astrophysics PhD Student
Pennsylvania State University
Comprehensive exam passed: Sept. 6th, 2012
Expected graduation: Spring 2016
- B.A., Astronomy-Physics, Physics, and Music Performance
University of Wisconsin – Madison, 2009

Employment

- PSU Research Assistant, June 2010 - Present
- PSU Teaching Assistant, August 2009- May 2010

Awards, Grants and Fellowships

- Academic Computing Fellowship (2014-2016)
- Pennsylvania Space Grant Consortium Fellowship (2012-2014)
- CEHW Small Grant (2015)
- Zaccheus Daniel Awards (2010, 2011, 2013)
- Braddock Fellowship (2009)
- Fay Ajzenberg-Selove Award (2009)
- Hilldale Undergraduate Fellowship Award (2008)
- Wisconsin Space Grant Consortium Research Award (2008)

Publications

1. **Worth, R.J.**, Steinn Sigurdsson, and Christopher H. House. “Seeding Life on the Moons of the Outer Planets via Lithopanspermia.” *Astrobiology* (December 5, 2013): 131205082308008. doi:10.1089/ast.2013.1028.

Talks

1. **Worth, R.**, Sigurdsson, S., and House, C. (2014) “Seeding of Life on Moons of the Outer Planets via Lithopanspermia.” AAS DDA Meeting #45, #304.03
2. **Worth, R. J.**, and Wilcots, E.M. (2008). “Neutral hydrogen in Sextans A and B.” 18th Annual Wisconsin Space Conference at the University of Wisconsin - Fox Valley

Updated: Dec. 15nd, 2015

Posters

1. **Worth, R.**, and Sigurdsson, S. (2016) “Proxima Centauri's Effect on Planet Formation in Alpha Centauri.” American Astronomical Society Meeting #227, #
2. **Worth, R.**, and Sigurdsson, S. (2015) “Proxima Centauri's Influence on Planet Formation in Alpha Centauri.” American Astronomical Society ESS Meeting #3, #117.05
3. **Worth, R.**, and Sigurdsson, S. (2015) “Effect of Proxima Centauri on Planet Formation in Alpha Centauri.” American Astronomical Society Meeting #225, #138.04
4. **Worth, R.**, Sigurdsson, S., and House, C. (2014) “Seeding of Life on Moons of the Outer Planets via Lithopanspermia.” American Astronomical Society Meeting #223, #349.03
5. **Worth, R.**, Sigurdsson, S., and House, C. (2012) “Seeding of Life on Moons of the Outer Planets.” Astrobiology Science Conference, #2283
6. **Worth, R.**, Sigurdsson, S., and House, C. (2012) “Seeding of Life on Moons of the Outer Planets.” American Astronomical Society ESS Meeting #2, #42.04
7. **Worth, R.**, Sigurdsson, S., and House, C. (2011) “Seeding of Life on Moons of the Outer Planets.” American Astronomical Society Meeting #217, #349.03
8. **Worth, R. J.**, and Wilcots, E.M. (2008). “Neutral hydrogen in Sextans A and B.” American Astronomical Society Meeting #213, #424.32

Outreach Activities

- Organized the NCUWiP 2014 High School Science Day, a day of physics activities for ~20 local high school girls
- Lithopanspermia research talk for Penn State's Astronomy Club
- Regular participation in AstroFest and AstroNight, departmental open house events receiving hundreds of visitors a night
- Frequent presentation of 3D Mars slideshow for school groups of varying ages

Other

- Participant in 2012 MESA Summer School at UCSB
- Radio interview for CBC's science show 'Quirks and Quarks'. Aired Dec. 14th, 2013
- See <http://www.cbc.ca/radio/quirks/pastepisodes>
- Live TV interview on Al Jazeera America
- Article featured on Astrobites and in press, including BBC news, NASA Astrobiology Magazine, and others