

# Stephen Pardy

---

Astronomy Department – University of Wisconsin - Madison  
475 North Charter Street  
Madison, Wisconsin 53706  
[www.astro.wisc.edu/~spardy/](http://www.astro.wisc.edu/~spardy/)

## EDUCATION

*Ph.D.*, Astronomy – expected May 2018  
University of Wisconsin - Madison  
475 N. Charter Street, Madison, Wisconsin 53706

*Bachelor of Arts*, Physics with an Astronomy Emphasis – May 2013  
Macalester College  
1600 Grand Avenue, Saint Paul, Minnesota 55105

## AWARDS

University of Wisconsin - Madison  
Stebbins Award for significant research achievement.

Macalester College  
Dr. Sherman W. Schultz Memorial Award for academic excellence and outstanding research.

AAS 221  
Chambliss Astronomy Achievement Student Award

## RESEARCH EXPERIENCE

*ISIMA Summer Student* Summer 2014  
International Summer Institute for Modeling in Astrophysics - CITA, Toronto

- Used restricted 3-Body models and Bayesian techniques to study the tidal stream of NGC 5466 and the dark matter potential of the Milky Way.

*Research Assistant* Fall 2013  
University of Wisconsin - Madison

*REU Summer Student* Summer 2012  
National Radio Astronomy Observatory, Charlottesville, VA

- Wrote IDL code to analyze CO emission data from M51.
- Reduced data for VLA summer student observing project.

*Research Assistant* Summer 2011  
Physics and Astronomy Department, Macalester College, St. Paul, MN

- Reduced GBT and VLA data for the Lyman Alpha Reference Sample.

## TEACHING EXPERIENCE

*Teaching Assistant* Spring 2014  
University of Wisconsin - Madison

- Designed classroom material and lead discussion sections

*Astronomy Preceptor* Fall 2012  
Macalester College, St. Paul, MN

- Teaching assistant and telescope operator for introductory astronomy class.

## PUBLICATIONS

### REFEREED PAPERS

Herenz, E.C.; Gruyters, P.; Orlitova, I.; Hayes, M., et al. arXiv 1511.05406 – *The Lyman alpha reference sample. VII. Spatially resolved H $\alpha$  kinematics*

de Swardt, B.; Sheth, K.; Kim, T.; **Pardy, S.**, et al. 2015 ApJ, 808, 90– *The Off-center Bar in the Late-type Galaxy NGC 3906*

Guaita, L.; Melinder, J.; Hayes, M.; Östlin, G. et al., A&A, 576, A51– *The Lyman alpha reference sample: IV. Morphology at low and high redshift*

Östlin, G.; Hayes, M.; Duval, F.; Sandberg, A., et al. 2014 ApJ, 797, 11 – *The Lyman-alpha Reference Sample: I. Survey outline and first results for Markarian 259*

**Pardy, S.A.**; Cannon, J.M.; Östlin, G.; Hayes, M., et al. 2014 ApJ, 794, 101 – *The Lyman Alpha Reference Sample: III. Properties of the Neutral ISM from GBT and VLA Observations*

Bernstein-Cooper, E. Z., Cannon, J. M., Elson, E. C., Warren, S.R., et al. 2014, AJ, 148, 35 – *ALFALFA Discovery of the Nearby Gas-rich Dwarf Galaxy Leo P. V. Neutral Gas Dynamics and Kinematics*

Hayes, M., Östlin, G., Duval, F., Sandberg, A, et al. 2014, ApJ, 782, 6 – *The Lyman alpha Reference Sample: II. HST imaging results, integrated properties and trends*

Cannon, J. M., Bernstein-Cooper, E. Z., Cave, I. M., Harris, J. B., et al. 2012, AJ, 144, 82 – *The Neutral Gas Dynamics of the Nearby Magellanic Irregular Galaxy UGCA 105*

### CONFERENCE PUBLICATIONS AND CONTRIBUTED TALKS

Feedback in the Magellanic Clouds Workshop, Space Telescope Science Institute

Lyman Alpha as an Astrophysical Tool Workshop, NORDITA, Stockholm, Sweden

**Pardy, S.**, et al. 2013, AAS Meeting Abstracts, 221, #146.20

**Pardy, S.**, et al. 2012, AAS Meeting Abstracts #219, 219, #244.05

### COMPUTER SKILLS

*Expert in:* Python, IDL, Mathematica, L<sup>A</sup>T<sub>E</sub>X *Experience with:* iraf, CASA, C

### COMMUNITY SERVICE & OUTREACH ACTIVITIES

- Public Outreach: Universe in the Park, Washburn Telescope Public Nights
- Tutor and instructor:
  - Wisconsin state Science Olympiad competition winter 2014.
  - Ramsey Junior High School Science Fair 2013.