

# Stephen Pardy

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## 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

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

AAS 221  
Chambliss Astronomy Achievement Student Award

## RESEARCH EXPERIENCE

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

- Used restricted 3-Body models and Markov Chain Monte Carlo techniques to study the tidal stream of NGC 5466 and study 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 and edited IDL code to analyze CO emission data from M51.
- Assisted with the reduction of data for a summer student observing project.

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

- Reduced GBT data for the Lyman Alpha Reference Sample - a study of nearby galaxies comparing Lyman Alpha emissions to various properties including HI mass.
- Designed pipeline for reduction of further data.

## TEACHING EXPERIENCE

*Teaching Assistant* Spring 2014  
University of Wisconsin - Madison

- Designed material and lead four discussion sections

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

- Grader, teaching assistant, and telescope operator for the introductory astronomy class.

## PUBLICATIONS

### REFEREED PAPERS

stlin, G.; Hayes, M.; Duval, F.; Sandberg, A.; Rivera-Thorsen, T.; Marquart, T.; Orlitova, I.; Adamo, A.; Melinder, J.; Guaita, L.; Atek, H.; Cannon, J. M.; Gruyters, P.; Herenz, E. C.; Kunth, D.; Laursen, P.; Mas-Hesse, J. M.; Micheva, G.; **Pardy, S. A.**; Oti-Floranes, H. ; Roth, M. M.; Schaerer, D.; Verhamme, A. 2014 ApJ in press  
– The Lyman-alpha Reference Sample: I. Survey outline and first results for Markarian 259

**Pardy, S.A.**; Cannon, J.M.; Ostlin, G.; Hayes, M.; Rivera-Thorsen, T.; Sandberg, A.; Adamo, A.; Freeland, E.; Christian Herenz; E., Guaita, L.; Kunth, D.; Laursen, P.; Mas-Hesse, J.M.; Melinder, J.; Orlitova, I.; Oti-Floranes, H.; Puschnig, J.; Schaerer, D.; Verhamme, A., 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., Chengalur, J., Skillman, E.D., Adams, E.A.K., Bolatto, A.B., Giovanelli, R., Haynes, M.P., McQuinn, K.B.W., **Pardy, S.A.**, Rhode, K.L., Salzer, J.J. 2014, AJ in press, arXiv:1404.5298  
– ALFALFA Discovery of the Nearby Gas-rich Dwarf Galaxy Leo P. V. Neutral Gas Dynamics and Kinematics

Hayes, M.; Ostlin, G.; Duval, F.; Sandberg, A.; Guaita, L.; Melinder, J.; Adamo, A.; Schaerer, D.; Verhamme, A.; Orlitov, I.; Mas-Hesse, J. M.; Cannon, J. M.; Atek, H.; Kunth, D.; Laursen, P.; Oti-Floranes, H.; **Pardy, S.**; Rivera-Thorsen, T.; Herenz, E. C., 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., Marshall, M. V., Moen, J. M. , Moody, S. J., O’Leary, E. M., **Pardy, S. A.**, Thomann, C. M., 2012, AJ, 144, 82 – The Neutral Gas Dynamics of the Nearby Magellanic Irregular Galaxy UGCA 105

### CONFERENCE PUBLICATIONS AND TALKS

**Pardy, S.**, et al. 2013, Lyman Alpha as an Astrophysical Tool Workshop, NORDITA, Stockholm, Sweden

**Pardy, S.**, Leroy, A. K., Schinnerer, E., et al. 2013, American Astronomical Society Meeting Abstracts, 221, #146.20

**Pardy, S.**, Cannon, J. M., Ostlin, G., et al. 2012, American Astronomical Society Meeting Abstracts #219, 219, #244.05

Moen, J., Cannon, J. M., Bernstein-Cooper, E., Cave, I. M., Harris, J. B., Marshall, M. V. , Moody, S. J., O’Leary, E. M., **Pardy, S. A.**, Thomann, C. M., 2013, American Astronomical Society Meeting Abstracts, 221, #242.03

## COMPUTER SKILLS

*Current Languages & Software:* Python, IDL, Mathematica, C, L<sup>A</sup>T<sub>E</sub>X

*Previous Languages & Software:* iraf, CASA, html, PHP, photoshop, LabView, Java

**COMMUNITY  
SERVICE &  
OUTREACH  
ACTIVITIES**

- Designed and taught seminar on stellar evolution for Wisconsin Science Olympiad competition.
- Tutor for science fair at Ramsey Junior High School, St. Paul, MN.
- Hosted public observing nights for the community and campus at Macalester College.
- Treasurer and founding member of Physics and Astronomy Club at Macalester College.