

Stephen Pardy

Astronomy Department – University of Wisconsin - Madison
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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

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

de Swardt, B.; Sheth, K.; Kim, T.; **Pardy, S.**, et al. 2015 ApJ Accepted – *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 TALKS

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

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

Moen, J., Cannon, 2013, AAS Meeting Abstracts, 221, #242.03

COMPUTER SKILLS

Expert in: Python, IDL, Mathematica, L^AT_EX *Experience with:* iraf, CASA, C

COMMUNITY SERVICE & OUTREACH ACTIVITIES

- Universe in the Park - 08/14/2014, 08/31/2014
- Wisconsin Science Fair 2014 - Hosted Washburn Observatory open house
- Tutor and instructor:
 - Stellar evolution workshop at Wisconsin state Science Olympiad competition winter 2014.
 - Ramsey Junior High School Science Fair 2013.
- Hosted public observing nights at Macalester College.
- Treasurer and founding member of Physics Club at Macalester College.