Stephen Pardy

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COMPUTER SKILLS
Languages: Python, Javascript
Techniques: Regression, PCA, clustering (K-means, DBSCAN), MCMC
Tools: LATEX, Git, Jekyll, Amazon Web Services
Packages: Pandas, numpy/scipy, scikit-learn, seaborn, D3.js

EDUCATION
Ph.D., Astronomy – May 2018
Masters, Astronomy – December 2015
University of Wisconsin - Madison
Relevant courses: Comp Sci 759 - HPC Applications in Engineering; Comp Sci 714 - Methods of Computational Math; Comp Sci 532 - Pattern Recognition
Stebbins Award for significant research achievement.

Bachelor of Arts, Physics with an Astronomy Emphasis – May 2013
Macalester College
Dr. Sherman W. Schultz Memorial Award for academic excellence and outstanding research.

EXPERIENCE
Data Science Intern   Summer 2018
Stitch Fix, San Francisco
- Intern on the AI Instruments team.

Research Assistant   September 2013 - May 2018
University of Wisconsin - Madison
- Lead publication of four papers and assist in nine others with 204 citations.
- Design and run large computational models using distributed memory systems.
- Manage, analyze, and visualize results from >100 Gb simulation datasets using custom-built python library.
- Mentor two undergraduate students on projects using pattern recognition and clustering methods applied to images and multi-dimensional datasets.

Teaching Assistant   Spring 2014, Fall 2016, Fall 2017
University of Wisconsin - Madison
- Design lesson plans and teach 4-6 discussion sections a week for introductory astronomy courses.

PROFESSIONAL DEVELOPMENT

Scaling to Petascale workshop 2017	University of Chicago
GAIA data workshop 2016	Max Planck Institute for Astrophysics
Astrostatistics Summer School 2015	Pennsylvania State University
International Summer Institute for Modeling in Astrophysics 2014	CITA, Toronto