Stephen Pardy

CONTACT

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EDUCATION

Ph.D., Astronomy ..... May 2018
Masters, Astronomy ..... December 2015
University of Wisconsin - Madison
Relevant Coursework: HPC Applications in Engineering; Methods of Computational Math; Theory and Application of 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

Stitch Fix Inc, San Francisco
Data Science Intern - AI Instruments Team ..... June 2018 - August 2018

- Modeled time-evolution of client like-rate on the "Style Shuffle" application using recommender systems designed in PyTorch. Project goal was for a five percentage-point increase in predictive power of the model.
- Edited and managed production ETLs using PySpark that combined client interaction data across multiple data sources and fed them to our recommender system.
- Analyzed A/B test results targeting increased client engagement using mixed effects models and SQL queries across over 200 million rows. Presented solution to business partners that will drive $\sim$150% increase in per-user engagement.

University of Wisconsin - Madison
Research Assistant ..... September 2013 - June 2018

- Lead publication of four papers and co-authored nine others with 230 citations.
- Designed and ran large computational models using distributed-memory systems.
- Managed, visualized, and analyzed results from multiple >100 Gb simulation datasets using custom-built python tools.
- Mentored undergraduate students on projects using pattern recognition and clustering methods applied to images and multi-dimensional datasets.

SKILLS

Main Languages: Python, Javascript
Techniques: Recommender systems, clustering, regression, PCA, machine learning
Tools: LaTeX, Git, Jekyll, AWS, SQL
Packages: Pandas, numpy, scipy, Scikit-Learn, seaborn, D3.js, PyTorch