John Jardel

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EDUCATION

The University of Texas
Austin, TX— 2008-2014

Ph.D. in Astrophysics
GPA: 3.96
Dissertation: “Measuring Dark Matter Profiles Non-Parametrically in Local Group Dwarf Spheroidals”

Rutgers University
New Brunswick, NJ— 2004-2008

B.S. in Astrophysics, Minor in Philosophy
GPA: 3.74
Magna cum Laude with Departmental Honors

RELEVANT SKILLS

- Broad knowledge of numerous supervised and unsupervised Machine Learning and statistical methods
- Proficient with Python (SciPy stack, sklearn, pandas), SQL, UNIX shell
- Experience working closely with engineers within an Agile development framework
- Some familiarity with Javascript/HTML/CSS and developing web applications with Python’s Flask
- Excellent written and verbal communications skills

EXPERIENCE

Data Scientist, Square Root
Austin, TX — 2014-present

Working for a startup, I’ve had to wear many hats in my role. I’m equally comfortable writing production code, walking a client through an analytics consulting project, or standing up a quick interactive demo to show off some new modeling results. My current focus is on building repeatable ways to identify and surface actionable insights to users in our SaaS platform.

- Developed an interactive web-based tool to monitor data quality and freshness that was adopted by the Data Science team
- Led a year-long consulting project focused on explaining the variance in retailer profitability from store to store
- Performed various clickstream analyses to uncover patterns in user behavior and drive business decisions
- Developed and maintained complex ETL pipelines to process customer data

Graduate Researcher/PhD Candidate, The University of Texas
Austin, TX— 2008-2014

For 6 years, I conducted unsupervised research modeling the dark matter halos and black holes found in the smallest galaxies. I designed and led my own research projects which culminated in 6 first-author publications.

- Developed cutting-edge models which I used to reveal new details about galaxy formation
- Created custom statistical analysis software to interpret and visualize modeling results
- Performed advanced image/spectral analysis on raw data from astronomical observations
- Utilized over 3 million CPU hours on 300-TFLOP supercomputers solving scientific computing problems