John Jardel

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EDUCATION

The University of Texas — 2008-2014
Austin, TX

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

Rutgers University — 2004-2008
New Brunswick, NJ

- *B.S.* in Astrophysics, Minor in Philosophy
- Magna cum Laude with Departmental Honors

RELEVANT SKILLS

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

EXPERIENCE

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

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 an interactive demo to showcase 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 that was heavily adopted by the Data Science team
- Analyzed user behavior from clickstream data and advised C-level executives on product strategy
- Led a year-long consulting project focused on explaining the variance in retailer profitability from store to store
- Implemented and deployed a model to classify types of user comments to inform managers of common patterns
- Developed and maintained complex ETL pipelines to process customer data

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

For 6 years, I conducted self-directed 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
- Designed and implemented a PostgreSQL database to store modeling results
- Utilized over 3 million CPU hours on 300-TFLOP supercomputers solving scientific computing problems