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
- Proficient with 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 communications 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 a quick 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 and freshness that was heavily adopted by the Data Science team
- 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
- 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 — 2008-2014
Austin, TX

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
- Designed and implemented a PostgreSQL database to store modeling results
- Utilized over 3 million CPU hours on 300-TFLOP supercomputers solving scientific computing problems