

BRYAN HOLMAN

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Professional Summary

Creative Ph. D. candidate with a strong background in statistics and data analysis. Captivated by big data, data science, and machine learning. Eager to work in a motivated team where learning, teaching, and collaboration abound.

Skills

- **Statistical Analysis:** hypothesis testing, regression, bootstrapping, uncertainty quantification
- **Machine Learning:** prediction, classification, clustering, feature engineering
- **Programming & Software:** R, Python (Pandas/scikit-learn), SQL, Java, HTML, CSS, JavaScript, Linux/Unix, Command line, Microsoft Office
- **Data visualization & presentation:** ggplot2, Matplotlib, Tableau, GIS, PowerPoint
- Experienced presenter, technical writer, and communicator
- Self-starter, quick learner, adept independent researcher but thrives in a team environment

Work History

Research/Teaching Assistant – Florida Institute of Technology, Melbourne, FL August 2013 – Present

- Investigating an ensemble of machine learning classifiers (logistic regression, nearest neighbors, random forests, SVMs) to improve summertime thunderstorm forecasts, currently resulting in a 43% improvement in skill over climatology.
- Improved skill of regional wind forecasts by up to 30% using prediction methods such as multivariate regression, neural networks, and optimization techniques.
- In a collaborative project, used feature engineering to advance the science of wind forecasting in coastal areas. Lead author for the article describing the research, currently in review at the journal *Weather and Forecasting*.
- Built ETL data pipeline for a real time statistical forecasting framework to be delivered to the National Weather Service.
- Mined, cleaned, and organized terabytes of numerical data for various research applications.
- Prepared and gave class lectures at the undergraduate and graduate level.
- Presented research at national and regional conferences.

Warehouse>Returns Manager – Computer Stores Northwest, Portland, OR August 2007 – June 2013

- Managed team of eight personnel (hiring/firing/payroll) and a multimillion-dollar inventory.
- Served customers both in person and via email/phone. Accounted directly to the CEO.

Education

Ph. D., Florida Institute of Technology, Melbourne, FL Expected July 2017

- Interdisciplinary degree: a fusion of applied statistics and meteorology, GPA: 4.0/4.0
- Relevant Coursework: Applied Statistical Analysis, Mathematical Statistics, Numerical Methods for PDEs, Data Structures and Programming, Advanced Programming

B. S., Portland State University, Portland, OR June 2013

- Awarded Graduating Senior of the Year in the Physics Department, GPA: 3.5/4.0