

BRYAN HOLMAN, PH. D.

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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

- Improved skill in numerical weather forecasts by up to 30% using a combination of numerical modeling, feature engineering, and various statistical methods, including: multivariate regression, logistic regression, random forests, k-Nearest Neighbors, neural networks, and optimization methods.
- Performed ETL processes to mine, clean, and prepare terabytes of structured and unstructured data for various research applications and statistical models.
- Presented interactive visualizations to project leads using ggplot2, Matplotlib, and Tableau.
- Built an automated analytics tool for local government office that implements data mining, ETL processes, and regression models in real time.
- Published research findings in academic journals as a lead author and coauthor, and presented these findings at national and regional conferences.
- Prepared and gave class lectures at the undergraduate and graduate level.

Warehouse Assistant/Manager – Computer Stores Northwest, Portland, OR August 2007 – June 2013

- Diagnosed and repaired customer hardware and software problems (Mac OS, iOS).
- Managed day-to-day warehouse operations supervising a team of eight personnel, including hiring, firing, and scheduling.
- Maintained and reconciled a multi million-dollar inventory using MySQL.

Education

Ph. D., Florida Institute of Technology, Melbourne, FL

September 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