

Drew Hogg

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Data Scientist | Quantitative Analyst

Skills

- Data and Quantitative Analysis
- Decision Analytics
- Predictive Modeling
- Reporting & Proposal Writing
- Big Data Query and Interpretation
- Data Mining and Visualization
- Time-Series Analysis
- Machine Learning Algorithms

Languages: Python, C/C++, SQL, HTML, MPI

Analytics Tools & Software: Pandas, Scikit-learn, Numpy, Scipy, Matplotlib, Git

Experience

University of Maryland

College Park, MD

Graduate Student / NASA Earth and Space Science Fellow

2012-Present

- Conducted black hole research using parallelized C and C++ based codes for simulation. Role included model development, validation, benchmarking, execution (20+ million CPU-hours on 4 supercomputers), visualization, and documentation.
- Analyzed 1-10 terabyte sized datasets using statistical modeling.
- Investigated time variability using Fourier and Markov chain Monte Carlo Techniques.
- Successfully proposed for use of the Hubble Space Telescope, Chandra X-ray telescope, and Discovery Channel Telescope. (with supporting \$38,500)

University of Colorado

Boulder, CO

Undergraduate Research Assistant

2009-2012

- Led a survey of newly detected black holes, including data acquisition, processing of raw data, analysis, and sample comparison.
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Education

University of Maryland

College Park, MD

Ph.D., Astronomy

Expected August 2018

M.S., Astronomy

2014

University of Colorado Boulder, CO

B.A., Physics

2012

B.A., magna cum laude, Astronomy

2012

Publications and additional information available at drewhogg.com