

# Jeremiah Jet Goodson

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## Education

- **Stony Brook University** Stony Brook, NY  
*PhD in Physics - 3.62 GPA* August 2004 - May 2012
  - Dissertation: *Search for Supersymmetry in States with Large Missing Transverse Momentum and Three Leptons including a Z-boson***National Science Foundation US LHC Graduate Student Support Award**, 2009, awarded to support student research at the Large Hadron Collider
- **University of Colorado** Boulder, CO  
*BA in Mathematics & Physics, magna cum laude - 3.489 GPA* August 2000 - May 2004
  - Honors Thesis: *Study of the Second Neutralino*

## Experience

- **Footprints, Inc** Murray, UT/Moab, UT  
*Sr. Programmer* June 2013 - Present
  - Originated software used by client for managing warehouse operations.
  - maintained and expanded capabilities of client & in-house RDBMSs to meet customer needs.
  - Extensively upgraded/expanded in-house server monitoring for improved metrics and display.
- **Stony Brook University** Stony Brook, NY  
*Research Assistant* May 2006 - May 2012
  - Member of the ATLAS collaboration of the LHC at CERN.
  - Wrote and applied analysis tools to large datasets.
  - Primary developer of C++ package for error analysis of missing transverse momentum in ATLAS.
  - Responsible for software to monitor real-time status of particle detector electronics.
  - Led monitoring of particle detector by crew of ~12 shifters for particle detector data quality, performance, and safety.

## Skills

- Programming Languages: C/C++, C#, Python, Perl, Fourth Dimension, Javascript, SQL
- Operating Systems: Linux, Windows, OS X
- Software: LaTeX, GIMP, ROOT, MS Office
- Well-versed in analyzing large datasets and analytical problem solving.

## Publications

**"Search for Supersymmetry in Events with Three Leptons and Missing Transverse Momentum in  $\sqrt{s} = 7$  TeV pp Collisions with the ATLAS Detector"**, 26 April, 2012, submitted to Phys. Rev. Lett. arXiv:1204.5638 [hep-ex]

**"Search for Supersymmetry in Events with Four or More Leptons and Missing Transverse Momentum in pp Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector"**, 24 January, 2012, ATLAS Conference Note, ATLAS-CONF-2012-001

**"SUSY Searches at ATLAS in Multilepton Final States with Jets and Missing Transverse Energy"**, 23 March, 2011, ATLAS Conference Note, ATLAS-CONF-2011-039

**"Monitoring of the ATLAS Liquid Argon calorimeter"**, Proceedings from the 17th International Conference on Computing in High Energy and Nuclear Physics in Prague, Czech Republic, 2009 J. Phys.: Conf. Ser. 219 <http://iopscience.iop.org/1742-6596/219/2/022034>