

Joshua Lande

Contact Information

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Objective To become a data scientist.

Education **Stanford University**, Stanford, CA
PhD in Physics (expected) **May, 2013**

Marlboro College, Marlboro, VT
B.S. in Physics, minor in Computer Science **May, 2008**

Skills Summary

- data analysis, mathematical modeling, statistical analysis
- python, numpy, scipy, matplotlib, hdf5, bash (extensive)
- C++, Perl, Java, Matlab, Fortran, SWIG (moderate)

Experience *PhD Research at Stanford* **2004-2008**

- Analyzed large astrophysical γ -ray data sets to search for pulsar wind nebulae. Developed new analysis software in python to characterize data. Validated software with monte-carlo simulations. Contributed significantly to two publications.

SULI Internship at SLAC, Menlo Park, CA, **Summer, 2007**

- Developed software to calibrate and analyze x-ray powder diffraction data. Wrote GUI front-end in python.

REU Internship at UC Davis, Davis, CA, **Summer, 2006**

- Simulated optical telescope to quantify observed errors. Reduced simulated data to asses systematics.

GWU SEAP Internship at ANSER, Arlington, VA, **Summer, 2004 & 2005**

- Quantified effects of radiation on astronauts using numerical simulations. Built GUI front end to simulations in Java.

Additional Experience *Tutor and Teaching Assistant* **2005-2010**

- Tutored at Marlboro for 3 years. TA at Stanford for 3 quarters.

Honors/Awards The Buck Turner Prize, *Marlboro College* **2008**
The Ernest Coleman Award for Scholarship and Citizenship, *SULI Internship* **2007**

Publications Lande, J., et al "Search for Spatially Extended Sources Using Two Years of Flight Data," **August, 2012.**