Travis Scholten

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EDUCATION

University of New Mexico
PH D IN PHYSICS
August 2012 - Present | Albuquerque, NM
Cum. GPA: 3.87 / 4.0

California Institute of Technology
BS IN PHYSICS
August 2008 - June 2012 | Pasadena, CA
Cum. GPA: 3.4 / 4.0

LINKS

Github:// Travis-S
LinkedIn:// Travis Scholten
YouTube:// Travis Scholten
Twitter:// @Travis_Sch

SKILLS

Programming
Over 20000 lines:
LaTeX
Over 1000 lines:
Python 2.7
Familiar:
Bash • HTML
Tools
jekyll • git • ipython
Concepts
Statistics - Model Selection

TO DO

Programming
Learn julia language
Learn GPU programming
Concepts
Model Validation
Machine Learning
Data Mining
Software Management

EXPERIENCE

Sandia National Laboratories | STUDENT INTERN
May 2013 - Present | Albuquerque, NM
- Developed Python code base for scientific computation
- Learned to use HPC cluster(s)
- Presented several talks and a poster on my research

University of New Mexico | TEACHING ASSISTANT
August 2012 - May 2013 | Albuquerque, NM
- Taught undergraduate labs and helped with a graduate level course
- Wrote personal lecture notes, graded homework assignments, and held office hours

California Institute of Technology | TOUR GUIDE
June 2011 - June 2012 | Pasadena, CA
- Guided prospective students around campus and answered questions

California Institute of Technology | SUMMER UNDERGRADUATE RESEARCH FELLOW
June 2011 - September 2011 | Pasadena, CA
- Wrote Matlab code for numerical simulations
- Presented research at annual speaking competition, where I advanced to the final round

RESEARCH

Sandia National Laboratories | STUDENT INTERN
May 2013 - Present | Albuquerque, NM
I work with Robin Blume-Kohout on problems related to statistical inference in quantum tomography. I am specializing in the use of **model selection and hypothesis testing** techniques to address these problems.

California Institute of Technology | SUMMER UNDERGRADUATE RESEARCH FELLOW
June 2011 - September 2011 | Pasadena, CA
I worked with Spyridon Michalakis to **develop a Matlab code base for numerical simulation** to understand the computational efficiency of a particular model of quantum computation.

University of California, Los Angeles | LAB ASSISTANT
June 2009 - September 2009 | Los Angeles, CA
I worked in Ya-Hong Xie's group characterizing graphene samples. We did so to understand how growth conditions of the graphene affected surface characteristics.

AWARDS

2014	Student Research Grant	University of New Mexico
2012	Top 7	Perpall Speaking Competition, Caltech
2011	Amasa Bishop Prize	Caltech Study Abroad
2010	Don Shepard Award	Caltech
2008	National Merit Scholarship Finalist	