

Travis Scholten

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EDUCATION

University of New Mexico

PH D IN PHYSICS

August 2012 - Present | Albuquerque, NM

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

jeekyll • git • ipython

Concepts

Statistics - Model Selection

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	

TO DO

Programming

Learn julia language

Learn GPU programming

Concepts

Model Validation

Machine Learning

Data Mining

Software Management