

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

jeekyll • 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
2012 Top 7
2011 Amasa Bishop Prize
2010 Don Shepard Award
2008 National Merit Scholarship Finalist

University of New Mexico
Perpall Speaking Competition, Caltech
Caltech Study Abroad
Caltech