

# 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  
MS in Physics  
June 2015

### 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:

L<sup>A</sup>T<sub>E</sub>X

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

### PRESCIO CONSULTING | Student Intern

June 2015 - August 2015 | Casa Grande, AZ

- Worked with SAS code base for banking model sensitivity analysis
- Wrote articles for company website

### 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 | 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 Finalist  
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