

Travis L Scholten

<http://travisscholten.com> travisscholten@gmail.com

EDUCATION

University of New Mexico

PH D PHYSICS

August 2012 - Present

MS IN PHYSICS

June 2015

California Institute of Technology

BS PHYSICS

August 2008 - June 2012

LINKS

Github: [Travis-S](#)

LinkedIn: [Travis Scholten](#)

Twitter: [@Travis_Sch](#)

SKILLS

Programming

Competent:

\LaTeX • Python 2.7

Familiar:

Bash • HTML

Tools

git • Jupyter notebooks • jekyll •

Scipy computing stack • Matplotlib •

Pandas

Concepts

Statistics • Model Selection

RECENT AWARDS

2017: Brian E Colón Exemplary Service

Award: UNM GPSA

2016: Excellence in Ethics Award

UNM GPSA

2015: Student Research Grant

UNM GPSA

2014: Student Research Grant

UNM GPSA

OTHER EXPERIENCE

2017: Organizer, CQuIC Computing Workshop

2016-17: Vice-Chair, GPSA Finance Committee

2015-17: GPSA Council Representative
Physics and Astronomy

EXPERIENCE

Sandia National Laboratories | STUDENT INTERN

May 2013 - Present | Albuquerque, NM

Engaged in self-directed and collaborative work with colleagues for my PhD research in quantum characterization, verification, and validation. I am specializing in the use of model selection and hypothesis testing techniques to address such problems.

- Developed from scratch a 1300-line Python code base for scientific computation, as well as Jupyter notebooks for data analysis and visualization
- Learned to use a high-performance computing cluster, including code parallelization techniques
- Presented multiple conference talks and posters about my work

Precio Consulting | STUDENT INTERN

June 2015 - August 2015 | Casa Grande, AZ

Performed model sensitivity analysis for clients.

- Updated a SAS code base for analysis
- Wrote short 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

Developed research skills and techniques during a summer project to understand the computational efficiency of a particular adiabatic quantum computation.

- Wrote Matlab code for numerical simulations
- Presented my research at the annual Perpall speaking competition, where I advanced to the final round

PUBLICATIONS

[1] Travis L Scholten and Robin Blume-Kohout. Behavior of the maximum likelihood in quantum state tomography. arXiv:1609.04385.