Travis L Scholten

http://travisscholten.com travisscholten@pm.me

EDUCATION

University of New Mexico
Ph D Physics
August 2012 - September 2018
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
Expert:
Python • Numpy •pandas
Intermediate:
git • Jupyter notebook • seaborn • data visualization
Basic:
Bash • HTML

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

IBM | Quantum Computing Solutions Developer
October 2018 - present | Yorktown Heights, NY

Sandia National Laboratories | Student Intern
May 2013 - September 2018 | Albuquerque, NM
Engaged in self-directed and collaborative work with colleagues for my PhD research in quantum characterization, verification, and validation. My research specialized in model selection, hypothesis testing, and machine learning techniques for characterizing quantum hardware.

- 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

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. New J. Phys. 20 023050.