http://schultz.physics.ucdavis.edu **Kasey W. Schultz** kwschultz@ucdavis.edu

Education

University of California, Davis — Sep 2012 → Present
M.S. in Physics — December 2013
Ph.D. in Physics — June 2017, expected

University of Miami — Aug 2008 → May 2012
B.S. in Physics, Applied Mathematics. *Cum Laude*

Research

Department of Physics, University of California, Davis
Researcher — June 2013 → Present
Currently working with Professor John Rundle, developing the Virtual California earthquake simulator. We are building python modules for analyzing and visualizing simulation data, as well as developing a web-based interface to the simulation data and analysis tools.

Department of Astronomy, California Institute of Technology
Summer Undergraduate Research Fellow — June 2011 → Aug 2011
Updated and expanded the data analysis pipeline for the Planck collaboration (CMB telescope), and helped identify parameter correlations using the D.O.E.'s supercomputing center NERSC.

Department of Physics, University of Miami
Research Assistant — Aug 2009 → May 2012
Reconstructed the optical properties of a Cosmic Microwave Background telescope (WMAP) from its measured radiation maps. Presented poster at January 2011 meeting of the American Astronomical Society.

Published Research

Kasey Schultz, M. K. Sachs, E. M. Heien, J. B. Rundle, D. L. Turcotte, and A. Donnellan. *Simulating gravity changes in topologically realistic driven earthquake fault systems: First results.* Pure and Applied Geophysics, doi: 10.1007/s00024-014-0926-4, in press (2014)

Schultz, K.W., Huffenberger, K.M. *Stacking catalogue sources in WMAP data.* Monthly Notices of the Royal Astronomical Society, Volume 424, Issue 4, pp. 3028-3036 (2012)

Teaching & Tutoring

Department of Physics, University of California, Davis
Teaching Assistant — Sep 2012 → June 2013
Led discussion lab of over 30 students covering introductory physics.

Department of Biology, Barry University, Miami Shores, FL
RISE tutor — Jan 2012 → May 2012
Tutored MBRS-RISE students in calculus and calculus-based physics.

Department of Physics, University of Miami
Physics Lab tutor — Oct 2011 → May 2012
Helped students with most of undergraduate physics.

Department of Mathematics, University of Miami
Math Lab tutor — Sep 2009 → May 2010
Helped students with calculus, differential equations, linear algebra.

Honors & Awards

Member, Omicron Delta Kappa — Sep 2011 → present
One of the highest collegiate honors, along with Phi Kappa Phi and Phi Beta Kappa.

Isaac Bashevis Singer Scholarship — Aug 2008 → May 2012
Full academic scholarship to the University of Miami, 30 annually.

Foote Fellow — Aug 2008 → May 2012
Highest academic honor at U. of Miami, gives student freedom to design own curriculum, 50 annually.

NSF CSMS Scholarship — Aug 2010 → May 2011
NSF Computer Science and Mathematics for Scientists, 5 annually at Univ. of Miami.

Beyond the Book Scholarship — May 2010 → Aug 2010
Supported summer research, University of Miami College of Arts and Sciences, 12 annually.

National Ocean Scholarship — Aug 2008 → May 2010
4 annually, awarded by the Consortium for Ocean Leadership and the National Ocean Sciences Bowl.