

<b>Education</b>	<b>University of California, Davis</b>	2012 → Present
	M.S. in Physics — Dec 2013 Ph.D in Physics — 2016, expected	
	<b>University of Miami</b> , Coral Gables, FL	2008 → 2012
	B.S. in Physics, Applied Mathematics. <i>Cum Laude</i>	
<b>Research</b>	Department of Physics, <b>University of California, Davis</b>	
	<i>Graduate Student Researcher</i>	June 2013 → Present
	<b>Advisor:</b> Prof. John Rundle	
	<ul style="list-style-type: none"> <li>• Developing the Virtual California earthquake simulator, analyzing large data sets</li> <li>• Developing Python modules for simulation data analysis, visualization and a web-based interface to the simulation data and analysis tools</li> </ul>	
	Department of Astronomy, <b>California Institute of Technology</b> , Pasadena, CA	
	<i>Summer Undergraduate Research Fellow</i>	Summer 2011
	<b>Advisor:</b> Dr. Brendan Crill, NASA JPL	
	<ul style="list-style-type: none"> <li>• Updated and expanded the data analysis pipeline for the Planck collaboration</li> <li>• Identified correlations between detector model parameters using the D.O.E.'s supercomputing center NERSC</li> </ul>	
	Department of Physics, <b>University of Miami</b>	
	<i>Research Assistant</i>	2009 → 2012
	<b>Advisor:</b> Prof. Kevin Huffenberger	
	<ul style="list-style-type: none"> <li>• Reconstructed the optical properties of a Cosmic Microwave Background telescope (WMAP) from its measured radiation maps</li> <li>• Identified a selection bias in the WMAP point source catalog</li> </ul>	
<b>Published Research</b>	M. R. Yoder, <b>K. W. Schultz</b> , E. M. Heien, J. B. Rundle, D. L. Turcotte, J. W. Parker and A. Donnellan. <i>The Virtual Quake earthquake simulator: A simulation based forecast of the El Mayor-Cucapah region and evidence of earthquake predictability</i> , Geophysical Journal International, <b>under review</b> (2015)	
	M. R. Yoder, <b>K. W. Schultz</b> , E. M. Heien, J. B. Rundle, D. L. Turcotte, J. W. Parker and A. Donnellan. <i>Forecasting earthquakes with the Virtual Quake simulator: Regional and fault-partitioned catalogs</i> , International Association of Geodesy Symposia, <b>under review</b> (2015)	
	<b>K. W. Schultz</b> , M. K. Sachs, E. M. Heien, M. R. Yoder, J. B. Rundle, D. L. Turcotte, and A. Donnellan, <i>Virtual California: Statistics, Co-Seismic Deformations and Gravity Changes for Driven Earthquake Fault Systems</i> , International Association of Geodesy Symposia, <b>under review</b> (2015)	
	<b>K.W. Schultz</b> , M.K. Sachs, J.B. Rundle, D.L. Turcotte, <i>Simulating Gravity Changes in Topologically Realistic Driven Earthquake Fault Systems</i> , Pure and Applied Geophysics, doi: 10.1007/s00024-014-0926-4, <b>in press</b> (2014)	
	<b>K. W. Schultz</b> and K. M. Huffenberger, <i>Stacking catalogue sources in WMAP data</i> . Monthly Notices of the Royal Astronomical Society, Volume 424, Issue 4, pp. 3028-3036 (2012)	
<b>Conferences &amp; Talks</b>	<b>K. W. Schultz</b> , M. K. Sachs, E. M. Heien, J. B. Rundle, J. Fernandez, D. L. Turcotte, A. Donnellan. <b>talk:</b> <i>Virtual Quake: Earthquake Statistics, Surface Deformation Patterns, Surface Gravity Changes and InSAR Interferograms for Arbitrary Fault Geometries (won an OSPA award)</i>	
	American Geophysical Union (AGU) Fall Meeting 2014, San Francisco, CA. Dec 2014	

- K. W. Schultz**, M. K. Sachs, E. M. Heien, J. B. Rundle, J. Fernandez, D. L. Turcotte, A. Donnellan. **poster:** *Virtual California: Earthquake Statistics, Surface Deformation Patterns, Surface Gravity Changes and InSAR Interferograms for Arbitrary Fault Geometries*. Southern California Earthquake Center (SCEC) Meeting 2014, Palm Springs, CA. Sep 2014
- K. W. Schultz**, J. B. Rundle, M. K. Sachs, K. F. Tiampo, T. J. Hayes, J. Fernandez, D. L. Turcotte, A. Donnellan. **talk:** *Monitoring Major Fault Systems from Space: Modeling Implications for Dedicated Gravity Missions*. GENAH Conference. **Matsushima, Japan**. July 2014
- Multi-Hazards Summer School:** 1 week workshop on disaster prediction, preparedness, and response hosted by IRIDeS at Tohoku University and by the Association of Pacific Rim Universities (APRU). **Sendai, Japan**. July 2014
- K. W. Schultz**, B. Crill, **talk:** *Separating Planck Bolometers and Beams via Simulated Planet Observations*, Summer Undergraduate Research (SURF) Final Presentations. California Institute of Technology, Pasadena, CA, August 2011
- K. W. Schultz**, K.M. Hufferberger, **poster:** *Stacking Catalog Sources in WMAP Data*, 217th Meeting of the American Astronomical Society. Seattle, WA, January 2011

<b>Teaching &amp; Tutoring</b>	Department of Physics, <b>University of California, Davis</b> <i>Teaching Assistant</i>	2012 → 2013
	Department of Biology, <b>Barry University</b> , Miami Shores, FL <i>Physics and Math tutor</i>	2012
	Department of Physics, <b>University of Miami</b> <i>Physics Lab tutor</i>	2011 → 2012
	Department of Mathematics, <b>University of Miami</b> <i>Math Lab tutor</i>	2009 → 2010
<b>Computing &amp; Skills</b>	<b>Languages:</b> Proficient in Python, R, C++, L <sup>A</sup> T <sub>E</sub> X, Bash. Experience with SQL, HTML, Java <b>Modules &amp; Libraries:</b> Proficient with Git, Matplotlib, Numpy, Scipy. <b>Operating Systems:</b> Mac OS X, Linux, Windows	
<b>Honors &amp; Awards</b>	<b>Winner</b> of an Outstanding Student Paper Award in Natural Hazards	December 2014
	Awarded to top 3-5% of presenters in each section at the American Geophysical Union 2014 fall meeting	
	Member, Omicron Delta Kappa	2011
	One of the highest collegiate honors along with Phi Kappa Phi and Phi Beta Kappa	
	Isaac Bashevis Singer Scholarship	2008 → 2012
	Full academic scholarship to the University of Miami (UM), 30 annually.	
	Foote Fellow	2008 → 2012
	Highest academic honor at UM, fellows freely design their curriculum, 50 annually	
	NSF CSMS Scholarship	2010
	NSF Computer Science and Mathematics for Scientists, 5 annually at UM	
<b>STUDY ABROAD</b>	Beyond the Book Scholarship	2010
	Supported summer research, UM College of Arts and Sciences, 12 annually	
	National Ocean Scholarship	2008 → 2010
	Awarded by the Consortium for Ocean Leadership, 4 in the U.S. annually	
<b>Summer 2009:</b> ACC Summer Study Abroad in China and Vietnam.		
Studied environmental science, policy, and toxicology at:		
<ul style="list-style-type: none"> <li>• <b>South China Agricultural University</b>, Guangzhou, China.</li> <li>• <b>Yunnan University</b>, Kunming, China.</li> <li>• <b>Hanoi University of Mining and Geology</b>, Hanoi, Vietnam.</li> </ul>		