

# Daniel Hellfeld

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OBJECTIVE	To conduct scientific research in the field of nuclear engineering, specifically in the areas of radiation detection and imaging with applications in nuclear security and safeguards.	
EDUCATION	<b>Doctor of Philosophy (PhD)</b> , Nuclear Engineering (4.0/4.0) <i>University of California, Berkeley</i>	<b>Aug 2015 - Present</b> <i>Berkeley, CA</i>
	<b>Master of Science (MS)</b> , Nuclear Engineering (4.0/4.0) <i>Texas A&amp;M University</i>	<b>Aug 2013 - May 2015</b> <i>College Station, TX</i>
	<b>Bachelor of Science (BS)</b> , Physics (3.89/4.0) <i>University of California, Santa Barbara</i>	<b>Sep 2009 - Jun 2013</b> <i>Santa Barbara, CA</i>
RESEARCH EXPERIENCE	<b>NSSC Graduate Research Fellow</b> <i>Nuclear Science and Security Consortium, UC Berkeley</i>	<b>Aug 2015 - Present</b> <i>Berkeley, CA</i>
	<b>Graduate Student Intern</b> <i>Rare Event Detection, NACS, Lawrence Livermore National Laboratory</i>	<b>Jun 2015 - Jul 2015</b> <i>Livermore, CA</i>
	<b>NSSC Graduate Research Fellow</b> <i>Nuclear Science and Security Consortium, UC Berkeley</i>	<b>Nov 2014 - May 2015</b> <i>Berkeley, CA</i>
	<b>Graduate Student Intern</b> <i>Rare Event Detection, NACS, Lawrence Livermore National Laboratory</i>	<b>Jun 2014 - Aug 2014</b> <i>Livermore, CA</i>
	<b>Graduate Research Assistant</b> <i>Department of Nuclear Engineering, Texas A&amp;M University</i>	<b>Sep 2013 - Nov 2014</b> <i>College Station, TX</i>
TEACHING EXPERIENCE	<b>Lab Instructor</b> <i>Department of Nuclear Engineering, Texas A&amp;M University</i>	<b>Sep 2014 - Dec 2014</b> <i>College Station, TX</i>
	<b>Math/Physics Tutor</b> <i>Campus Learning and Assistance Services, UC Santa Barbara</i>	<b>Jan 2013 - Mar 2013</b> <i>Santa Barbara, CA</i>
SCIENTIFIC COMPUTING SKILLS	<b>Languages:</b> <b>Mathematical/Analysis Software:</b> <b>Monte Carlo Particle Transport Software:</b> <b>Nuclear Burnup Software:</b> <b>Gamma Spectroscopy Software:</b> <b>Build Systems:</b> <b>Operating Systems:</b> <b>Databases:</b> <b>Documentation:</b> <b>Version Control:</b> <b>Other Software:</b>	Python, C++, C, bash, XML ROOT, Mathematica, Matlab Geant4, MCNP5/X, Serpent ORIGEN2, CINDER-90, TransLAT GENIE-2000, MAESTRO, GammaVision, PeakEasy make, CMake macOS, Linux (Ubuntu), Windows HDF5, SQL Doxygen, Sphinx git L <sup>A</sup> T <sub>E</sub> X, MS Office
AWARDS	<b>Runner-up NSS Student Paper Competition, IEEE NSS-MIC</b> <b>Valentin T. Jordanov Rad. Instrum. Travel Grant, IEEE NSS-MIC</b> <b>Best Oral Presentation, University Program Review Meeting</b> <b>JD Williams Best Poster Award, INMM Annual Meeting</b> <b>Nuclear Science and Security Consortium Fellowship, UC Berkeley</b> <b>Graduate Enhancement Fellowship, Texas A&amp;M University</b> <b>Highest Academic Honor Award, UC Santa Barbara, Physics Dept.</b> <b>Highest Honors, UC Santa Barbara</b>	<b>Oct 2017</b> <b>Aug 2017</b> <b>Jun 2017</b> <b>Jul 2015</b> <b>Nov 2014</b> <b>Aug 2013</b> <b>May 2013</b> <b>May 2013</b>