

Kathryn D. Huff

CONTACT INFORMATION	Department of Nuclear Engineering University of California - Berkeley, Berkeley, CA	mobile: (281) 734-1342 e-mail: kathyhuff@gmail.com website: kathyhuff.github.com
RESEARCH INTERESTS	Advanced nuclear reactors and fuel cycles, scientific computation, sustainable energy systems, waste management, computational systems analysis.	
EDUCATION	University of Wisconsin , Madison, WI <i>Doctor of Philosophy</i> NUCLEAR ENGINEERING	Aug 2008 – Aug 2013
	University of Chicago , Chicago, IL <i>Bachelor of Arts and Sciences</i> PHYSICS	Aug 2004 – June 2008
HONORS AND AWARDS	Nuclear Science and Security Consortium Postdoctoral Fellowship.	2013–Present
	DOE Office of Science Laboratory Graduate Appointment, Argonne, IL.	2011–2013
	Roy G. Post Foundation Nuclear Waste Management Graduate Scholarship.	2011
	John Randall Memorial Scholarship, American Nuclear Society FCWMD.	2009
	J.A. McDeavitt Scholarship, University of Chicago, Chicago, IL.	2007–2008
	University Scholar Award, University of Chicago, Chicago, IL.	2004 – 2008
	Los Alamos Distinguished Student Performance Award, Los Alamos, NM.	2004
RESEARCH EXPERIENCE	University of California - Berkeley, NE Dept. , Berkeley, CA	Sept 2013 – Present
	<i>Postdoctoral Scholar, Nuclear Science and Security Consortium</i> Developing computational tools and multiphysics models for advanced reactor safety analysis.	
	Argonne National Laboratory , Argonne, IL	June 2011 – Aug 2013
	<i>Laboratory Graduate Research Appointee, Used Fuel Disposition Campaign</i> Developed a used fuel disposition and generic repository computational model.	
	University of Wisconsin - Madison, NEEP Dept. , Madison, WI	June 2008 – Aug 2013
	<i>Graduate Research Assistant, Computational Nuclear Engineering Research Group</i> Developed and applied CYCLUS, a nuclear fuel cycle systems analysis tool.	
	Idaho National Laboratory , Idaho Falls, ID	June – Aug 2010
	<i>Graduate Research Assistant, Systems Analysis Campaign</i> Developed software functions and requirements for the Fuel Cycle Simulator concept.	
	Kavli Institute For Cosmological Physics , Chicago, IL	Jan 2005 – June 2008
	<i>Research Assistant, Laboratory for Astrophysics and Space Research</i> Programmed & machined instrumentation. Planned protocol for QUIET polarimeter calibration.	
	Universidad de Chile, Physics Dept. , Santiago, Chile	June – Sept 2006
	<i>Research Assistant, Chicago-Chile Research Exchange Program</i> Constructed and operated a far from equilibrium granular materials experiment.	
	Los Alamos Neutron Science Center , Los Alamos, NM	June – Sept 2004
	<i>Research Assistant, LANSCE-3</i>	May – Aug 2003
	Applied digital filtration algorithms and MCNPX models to experimental data.	
SCIENTIFIC COMPUTING SKILLS	Languages	bash/csh, C, C++, FORTRAN, Perl, Python, SQL, XML.
	Build Systems	automake, CMake, distutils, make.
	Test Frameworks	CTest, GoogleTest, nose, unittest.
	Version Control	cvs, git, hg, svn.
	Nuclear	Cyclus, MCNP5/6/X, MOOSE, ORIGEN, PyNE, Serpent, VISION.
	Other Tools	Doxygen, HDF5, GoldSim, L ^A T _E X, MathCAD, Mathematica, MatLab, Sphinx.
PROFESSIONAL SERVICE	Secretary , Young Members Group, American Nuclear Society (ANS).	2013–2015
	Secretary–Treasurer , Fuel Cycle & Waste Management Division, ANS.	2013–2015
	Technical Program Co-Chair , SciPy, Scientific Python Conference.	2013–2014
	Moderator, Organizer, Panelist , inSCIght Scientific Computing Podcast.	2011–2013
	Editor , Proceedings of SciPy Scientific Python Conference.	2013
	Co-Founder , Nuclear Pride, LGBTQA Organization.	2011–2013
	Co-Founder, Treasurer, President , Hacker Within Scientific Computing Group.	2008–2011
	Governor, Treasurer , University of Wisconsin ANS student section.	2008–2010