Kathryn D. Huff

CONTACT INFORMATION	·	mobile: (281) 734-1342 e-mail: katyhuff@gmail.com ebsite: katyhuff.github.com	
RESEARCH INTERESTS	Advanced nuclear reactors and fuel cycles, scientific computation, sustain management, computational systems analysis.	nable energy systems, waste	
EDUCATION	University of Wisconsin, Madison, WI Doctor of Philosophy Nuclear Engineering University of Chicago, Chicago, IL Bachelor of Arts and Sciences Physics	Aug 2008 – Aug 2013 Aug 2004 – June 2008	
Honors and Awards	Data Science Fellowship, Berkeley Institute for Data Science, UC Berkel Nuclear Science and Security Consortium Postdoctoral Fellowship. DOE Office of Science Laboratory Graduate Appointment, Argonne, IL. Roy G. Post Foundation Nuclear Waste Management Graduate Scholars John Randall Memorial Scholarship, American Nuclear Society FCWMI J.A. McDeavitt Scholarship, University of Chicago, Chicago, IL. University Scholar Award, University of Chicago, Chicago, IL. Los Alamos Distinguished Student Performance Award, Los Alamos, N.	ey. 2014–2016 2013–2016 2011–2013 Ship. 2011 O. 2009 2007–2008 2004 – 2008	
RESEARCH EXPERIENCE	University of California - Berkeley, NE Dept., Berkeley, CA Postdoctoral Scholar, Nuclear Science and Security Consortium Data Science Fellow, Berkeley Institute for Data Science Developing computational tools and multiphysics models for advanced r Argonne National Laboratory, Argonne, IL	Sept 2013 – Present Aug 2014 – Present eactor safety analysis. June 2011 – Aug 2013	
	Laboratory Graduate Research Appointee, Used Fuel Disposition Campaign Developed a used fuel disposition and generic repository computational model. University of Wisconsin - Madison, NEEP Dept., Madison, WI June 2008 - Aug 2013 Graduate Research Assistant, Computational Nuclear Engineering Research Group Developed and applied CYCLUS, a nuclear fuel cycle systems analysis tool.		
	Idaho National Laboratory, Idaho Falls, ID Graduate Research Assistant, Systems Analysis Campaign Developed software functions and requirements for the Fuel Cycle Simul	June – Aug 2010 ator concept.	
	Kavli Institute For Cosmological Physics, Chicago, IL Research Assistant, Laboratory for Astrophysics and Space Research Programmed & machined instrumentation. Planned protocol for QUIET polarimeter calibration.		
	Universidad de Chile, Physics Dept., Santiago, Chile Research Assistant, Chicago-Chile Research Exchange Program Constructed and operated a far from equilibrium granular materials exp	June – Sept 2006	
	Los Alamos Neutron Science Center, Los Alamos, NM Research Assistant, LANSCE-3 Applied digital filtration algorithms and MCNPX models to experiment	$\begin{array}{c} \textbf{June-Sept~2004}\\ \textbf{May-Aug~2003}\\ \textbf{al~data}. \end{array}$	
SCIENTIFIC COMPUTING SKILLS	Build Systems automater Test Frameworks CTest Version Control Nuclear Cyclus, MCNP5/6/X, MOOSE, ORIGE	bash/csh, C, C++, FORTRAN, Perl, Python, SQL, XML. automake, CMake, distutils, make. CTest, GoogleTest, nose, unittest. cvs, git, hg, svn. Cyclus, MCNP5/6/X, MOOSE, ORIGEN, PyNE, Serpent, VISION. Doxygen, GoldSim, HDF5, IATEX, MathCAD, Mathematica, MatLab, Sphinx.	
Professional Service	Secretary, Young Members Group, American Nuclear Society (ANS). Secretary-Treasurer, Fuel Cycle & Waste Management Division, ANT Technical Program Co-Chair, SciPy, Scientific Python Conference. Moderator, Organizer, Panelist, inSCIght Scientific Computing Pool Editor, Proceedings of SciPy Scientific Python Conference. Co-Founder, Nuclear Pride, LGBTQA Organization.	2013 – 2014	

Co-Founder, Treasurer, President, Hacker Within Scientific Computing Group.

2008 - 2011