Kathryn D. Huff

CONTACT INFORMATION	Department of Nuclear Engineering, University of California, Berkeley Postdoctoral Scholar, Nuclear Science and Security Consortium Data Science Fellow, Berkeley Institute for Data Science	mobile: (281) 734-1342 e-mail: katyhuff@gmail.com website: katyhuff.github.com	
RESEARCH INTERESTS	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:		
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	National Energy Research Scientific Computing Allocation, Senior Inventor Data Science Fellowship, Berkeley Institute for Data Science, UC Berkeley Institute for Data	eley. 2014–2016 2013–2016 L. 2011–2013 rship. 2011	
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	Sept 2013 – Present Aug 2014 – Present reactor safety analysis.	
	Argonne National Laboratory, Argonne, IL Laboratory Graduate Research Appointee, Used Fuel Disposition Cam Developed a used fuel disposition and generic repository computational		
	University of Wisconsin - Madison, NEEP Dept., Madison, WI Graduate Research Assistant, Computational Nuclear Engineering Research and applied CYCLUS, a nuclear fuel cycle systems analysis to	Assistant, Computational Nuclear Engineering Research Group	
	Idaho National Laboratory, Idaho Falls, ID Graduate Research Assistant, Systems Analysis Campaign Developed software functions and requirements for the Fuel Cycle Simu	${f June-Aug~2010}$ ulator concept.	
	Kavli Institute For Cosmological Physics, Chicago, IL Research Assistant, Laboratory for Astrophysics and Space Research Programmed & machined instrumentation. Planned protocol for QUIE	Jan 2005 – June 2008 T 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 experiment.		
	Los Alamos Neutron Science Center, Los Alamos, NM Research Assistant, LANSCE-3 Applied digital filtration algorithms and MCNPX models to experiment	$\begin{array}{c} June-Sept~2004\\ May-Aug~2003 \end{array}$ tal data.	
SCIENTIFIC COMPUTING SKILLS	Languages bash/csh, C++, FOR Build Systems Databases Test Frameworks Version Control Nuclear Cyclus, MCNP5/6/X, MOOSE, ORIGHOTHER Tools Other Tools Doxygen, GoldSim, HDF5, LATEX, MathCAD, Math		
Professional Service	Vice Chair, Fuel Cycle & Waste Management Division, ANS. Chair, Steering Committee, Software Carpentry Foundation. Editor, Proceedings of the SciPy Scientific Python Conference. Secretary—Treasurer, Fuel Cycle & Waste Management Division, ANTechnical Program Co-Chair, SciPy, Scientific Python Conference. Moderator, Organizer, Panelist, inSCIght Scientific Computing Potential Co-Founder, Nuclear Pride, LGBTQA Organization. Co-Founder, Treasurer, President, Hacker Within Scientific Computing Potential Co-Founder, President Co-Founder Co-Fo	NS. 2013–2014 2013&2015 2013-2015 2013–2014 2013–2013 2011–2013	