

# Kathryn D. Huff

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CONTACT INFORMATION	Assistant Professor, <i>University of Illinois, Urbana-Champaign</i> <i>Nuclear, Plasma, and Radiological Engineering</i> <i>National Center for Supercomputing Applications</i>	mobile: (281) 734-1342 e-mail: kathyhuff@gmail.com website: kathyhuff.github.com
RESEARCH INTERESTS	Advanced nuclear reactors and fuel cycles, multi-physics simulation, nuclear fuel cycle analysis, scientific computation.	
PHD	<b>University of Wisconsin - Madison, NUCLEAR ENGINEERING</b> • An Integrated Used Fuel Disposition and Generic Repository Model for Fuel Cycle Analysis • Advisor: Professor Paul P.H. Wilson	<b>Aug 2008 – Aug 2013</b>
BA	<b>University of Chicago, PHYSICS</b> • Celestial Gain Calibrations of QUIET Telescope Polarimeters	<b>Aug 2004 – Jun 2008</b>
HONORS AND AWARDS	National Energy Research Scientific Computing Allocation, Senior Investigator Data Science Fellowship, Berkeley Institute for Data Science, UC Berkeley Nuclear Science and Security Consortium Postdoctoral Fellowship, UC Berkeley DOE Office of Science Laboratory Graduate Appointment, Argonne National Lab Roy G Post Foundation Nuclear Waste Management Graduate Scholarship John Randall Memorial Scholarship, American Nuclear Society FCWMD 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 National Lab	<b>2015–2016</b> <b>2014–2016</b> <b>2013–2016</b> <b>2011–2013</b> <b>2011</b> <b>2009</b> <b>2007–2008</b> <b>2004–2008</b> <b>2004</b>
RESEARCH EXPERIENCE	<b>University of Illinois at Urbana-Champaign, Urbana, IL</b> <i>Assistant Professor, Nuclear Plasma and Radiological Engineering</i> <i>Blue Waters Asst. Prof., National Center for Supercomputing Applications</i> Principal investigator, advanced reactors and fuel cycles group.	<b>Aug 2016 – Present</b> <b>Aug 2016 – Present</b>
	<b>University of California - Berkeley, NE Dept., Berkeley, CA</b> <i>Postdoctoral Scholar, Nuclear Science and Security Consortium</i> <i>Data Science Fellow, Berkeley Institute for Data Science</i> Developing computational tools and multiphysics models for advanced reactor safety analysis.	<b>Sep 2013 – Jul 2016</b> <b>Aug 2014 – Jul 2016</b>
	<b>Argonne National Laboratory, Argonne, IL</b> <i>Laboratory Graduate Research Appointee, Used Fuel Disposition Campaign</i> Developed a used fuel disposition and generic repository computational model.	<b>Jun 2011 – Aug 2013</b>
	<b>University of Wisconsin - Madison, NEEP Dept., Madison, WI</b> <i>Graduate Research Assistant, Computational Nuclear Engineering Research Group</i> Developed and applied CYCLUS, a nuclear fuel cycle systems analysis tool.	<b>Jun 2008 – Aug 2013</b>
	<b>Idaho National Laboratory, Idaho Falls, ID</b> <i>Graduate Research Assistant, Systems Analysis Campaign</i> Developed software functions and requirements for the Fuel Cycle Simulator concept.	<b>Jun – Aug 2010</b>
	<b>Kavli Institute For Cosmological Physics, Chicago, IL</b> <i>Research Assistant, Laboratory for Astrophysics and Space Research</i> Programmed & machined instrumentation. Planned protocol for QUIET polarimeter calibration.	<b>Jan 2005 – Jun 2008</b>
	<b>Universidad de Chile, Physics Dept., Santiago, Chile</b> <i>Research Assistant, Chicago-Chile Research Exchange Program</i> Constructed and operated a far-from-equilibrium granular materials experiment.	<b>Jun – Sep 2006</b>

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| BOOKS                                 | [1] Scopatz, A., <b>Huff, K.</b> “Effective Computation in Physics: Field Guide to Research in Python” O’Reilly Media. 2015. <a href="http://shop.oreilly.com/product/0636920033424.do">shop.oreilly.com/product/0636920033424.do</a> .   |
| BOOK<br>CHAPTERS                      | [2] <b>Huff, K.</b> “Case Study: Cyclus Project,” in The Practice of Reproducible Research, 1st ed., Justin Kitzes, Fatma Imamoglu, and Daniel Turek, Eds. University of California, Berkeley: University of California Press (Accepted), 2016.   |
|                                       | [3] <b>Huff, K.</b> “Lessons Learned,” in The Practice of Reproducible Research, 1st ed., Justin Kitzes, Fatma Imamoglu, and Daniel Turek, Eds. University of California, Berkeley: University of California Press (Accepted), 2016.  |
| JOURNAL<br>PUBLICATIONS               | [4] <b>Huff, K.</b> , Gidden, M., Carlsen, R., Flanagan, R., McGarry, M., Opotowsky, A., Schneider, E., Scopatz, A., Wilson, P. “Fundamental Concepts in the CYCLUS Nuclear Fuel Cycle Simulation Framework.” <b>Advances in Engineering Software</b> , vol. 94, pp. 4659, Apr. 2016.   |
|                                       | [5] Aruliah, D.A., Brown, C.T., Chue Hong, N.P., Davis, M., Guy, R.T., Haddock, S.H.D., <b>Huff, K.</b> , Mitchell, I., Plumbley, M., Waugh, B., White, E.P., Wilson, G.V., and Wilson, P.P.H. “Best Practices For Scientific Computing.” <b>PLOS Biology</b> , Vol 1, Issue 12, 2014. <a href="http://dx.doi.org/10.1371/journal.pbio.1001745">dx.doi.org/10.1371/journal.pbio.1001745</a> |
|                                       | [6] Clerc, M., Dunstan, J., <b>Huff, K.</b> , Mujica, N., Varas, G. “Liquid-Solid-Like Transition in Quasi-One-Dimensional Driven Granular Media ”, <b>Nature Physics</b> , Vol 4, 249 - 254, 2008.   |
| SUBMITTED                             | [7] <b>Huff, K.</b> “Rapid Methods for Radionuclide Contaminant Transport in Nuclear Fuel Cycle Simulation”, 2015. ( <b>submitted</b> )   |
|                                       | [8] Scopatz, A., Gidden, M., Carlsen, R., Flanagan, R., <b>Huff, K.</b> , McGarry, M., Opotowsky, A., Rakhimov, O., Welch, Z., Wilson, P. “CYCLUS Archetypes”, 2015. <a href="http://arxiv.org/abs/1511.05619">http://arxiv.org/abs/1511.05619</a>  |
| REFEREED<br>CONFERENCE<br>PROCEEDINGS | [9] Wang, X., <b>Huff, K.</b> , Aufiero, M., Peterson, P., Fratoni, M. “Coupled reactor kinetics and heat transfer model for nuclear reactor transient analysis.” Paper 60728. <b>24th International Conference on Nuclear Engineering (ICONE24)</b> , Charlotte, NC. June 2016.  |
|                                       | [10] Wang, X., <b>Huff, K.</b> , Aufiero, M., Peterson, P., Fratoni, M. “A sensitivity study of a coupled kinetics and thermal-hydraulics model for Fluoride-salt-cooled, High-temperature Reactor (FHR) transient analysis.” <b>The International Congress on Advances in Nuclear Power Plants (ICAPP)</b> , San Francisco, CA. April 2016.  |
|                                       | [11] Greenberg, H., Fratoni, M., Djokic, D., <b>Huff, K.</b> , Nibbelink, R., Scopatz, A. “The Application of CYCLUS to Fuel Cycle Transition Modeling” Paper 5061. <b>Proceedings of Global</b> , Paris, France. September 2015.   |
|                                       | [12] <b>Huff, K.</b> , “PyRK: Python for Reactor Kinetics.” <b>Proceedings of the 14th Python in Science Conference</b> , Austin, TX. July 2015.  |
|                                       | [13] Krumwiede, D.L., Andreades, C., Choi, J.K., Cisneros, A.T., Huddar, L., <b>Huff, K.</b> , Laufer, M.D., Munk, M., Scarlat, R.O., Seifried, J.E., Zweibaum, N., Greenspan, E., Peterson, P.F. “Design of the Mark-I Pebble-Bed, Fluoride-Salt-Cooled, High-Temperature Reactor Commercial Power Plant,” Paper 14231. <b>Proceedings of ICAPP</b> , Charlotte, NC. April 2014.           |
|                                       | [14] <b>Huff, K.</b> “CYCLUS Fuel Cycle Simulation Capabilities with the Cyder Disposal System Model,” Paper 7730. <b>Proceedings of Global</b> , Salt Lake City, UT. October 2013.   |
|                                       | [15] Gidden, M., Wilson, P., <b>Huff, K.</b> , Carlsen, R. “An Agent-Based Framework for Fuel Cycle Simulation with Recycling,” Paper 7737. <b>Proceedings of Global</b> , Salt Lake City, UT. October 2013.  |
|                                       | [16] <b>Huff, K.</b> , Nutt, M. “Hydrologic Nuclide Transport Models in Cyder, a Geologic Disposal Software Library,” Paper 13328. <b>Proceedings of the Waste Management Symposium</b> , Phoenix, AZ. February 2013.   |

- [17] Oliver, K.M., Wilson, P.P.H., Reveillere, A., **Huff, K.** “Studying international fuel cycle robustness with the GENIUSv2 discrete facilities/materials fuel cycle systems analysis tool ”, Paper 9166. **Proceedings of Global**, Paris, France. 2009.
- [18] Rochman, D., Haight, R. C., Wender, S. A., O'Donnell, J. M., Michaudon, A., **Huff, K.**, Vieira, D. J., Bond, E., Rundberg, R.S., Kronenberg, A., Wilhelmy, J., Bredeweg, T. A., Schwantes, J., Ethvignot, T., Granier, T., Petit, M., Danon, Y. “First Measurements with a Lead Slowing-Down Spectrometer at LANSCE,” **AIP Conference Proceedings, International Conference on Nuclear Data for Science and Technology**. Volume 769. 2005.
- [19] **Huff, K.**, Scopatz, A. “Modernizing Computational Nuclear Engineering Education – In the Open” **Transactions of the American Nuclear Society Winter Conference**. Washington, DC. November 2015.
- [20] **Huff, K.**, Fraton, M., Greenberg, H. “Extensions to the CYCLUS Ecosystem in Support of Market-Driven Transition Capability” **Transactions of the American Nuclear Society Winter Conference**. Anaheim, CA. November 2014.
- [21] Bates, C., Biondo, E., **Huff, K.**, Kiesling, K., Scopatz, A. “PyNE Progress Report” **Transactions of the American Nuclear Society Winter Conference**. Anaheim, CA. November 2014.
- [22] **Huff, K.**, Bara, A. “Dynamic Determination of Thermal Repository Capacity For Fuel Cycle Analysis.” **Transactions of the American Nuclear Society Annual Conference**. Atlanta, GA. June 2013.
- [23] **Huff, K.**, Nutt, M. “Key Processes and Parameters in a Generic Clay Disposal System Model.” **Transactions of the American Nuclear Society Winter Conference**. San Diego, CA. November 2012.
- [24] Scopatz, A.M., Romano, P.K., Wilson, P.P.H., **Huff, K.** “PyNE: Python For Nuclear Engineering.” **Transactions of the American Nuclear Society Winter Conference**. San Diego, CA. November 2012.
- [25] **Huff, K.**, Bauer, T. “Numerical Calibration of an Analytical Generic Nuclear Repository Heat Transfer Model.” **Transactions of the American Nuclear Society Annual Conference**. Chicago, IL. June 2012.
- [26] **Huff, K.**, Gidden, M., Wilson, P.P.H. “Open architecture and modular paradigm of CYCLUS, a fuel cycle simulation code.” **Transactions of the American Nuclear Society Annual Conference**. Hollywood, FL. June 2011.
- [27] **Huff, K.**, Scopatz, A., Preston, N., Wilson, P.P.H. “Rapid Peer Education of a Computational Nuclear Engineering Skill Suite.” **Transactions of the American Nuclear Society Annual Conference**. Hollywood, FL. June 2011.
- [28] **Huff, K.** “CYCLUS: An Open, Modular, Next Generation Fuel Cycle Simulator Platform. ” (poster) **Waste Management Symposium**. Phoenix, AZ. March 2011.
- [29] **Huff, K.**, “MOX Fuel Recipe Approximation Tests in GENIUSv2. ” **Proceedings of the American Nuclear Society Student Conference**. Ypsilanti, MI. April 2010.
- [30] **Huff, K.**, Oliver, K., Wilson, P.P.H. “GENIUSv2 Discrete Facilities/Materials Modeling of International Fuel Cycle Robustness. ” **Transactions of the American Nuclear Society Winter Conference**. Washington D.C. November 2009.
- [31] **Huff, K.**, Wilson, P.P.H., Oliver, K. “GENIUS Version 2: Modelling the Worldwide Nuclear Fuel Cycle.” (poster) **eHub Conference**. University of Wisconsin - Madison. November 2009.

TECHNICAL REPORTS	[32]	C. Andreades, A. T. Cisneros, J.K. Choi, A.Y.K. Chong, D. L. Krumwiede, L.R. Huddar, <b>K. Huff</b> , M. R. Laufer, M.O. Munk, R.O. Scarlat, J. Seifried, N. Zweibaum, E. Greenspan, and P. F. Peterson, “Technical Description of the Mark 1 Pebble-Bed Fluoride-Salt-Cooled High-Temperature Reactor (PB-FHR) Power Plant,” <b>U.C. Berkeley Nuclear Engineering</b> , Report UCBTH-14-002, 2014.
	[33]	<b>Huff, K.</b> , Nutt, W.M. “FY12 Sensitivity Studies Using the UFD Clay Generic Disposal System Model.” <b>Argonne National Laboratory</b> . July 2012.
	[34]	<b>Huff, K.</b> , Bauer, T.H. “Benchmarking a New Closed-Form Thermal Analysis Technique Against a Traditional Lumped Parameter, Finite-Difference Method” <b>Argonne National Laboratory</b> . (FCRD-UFD-2012-000142). July 2012.
	[35]	<b>Huff, K.</b> , Dixon, B., Braase, L. “Next Generation Fuel Cycle Simulator Functions and Requirements Document.” <b>Idaho National Laboratory</b> (FCRD-SYSA-2010-000110). July 2010.
	[36]	<b>Huff, K.</b> “Digital Filtering Application to the Lead Slowing Down Spectrometer.” Los Alamos Neutron Science Center. August 2004. ( <b>awarded los alamos distinguished student award.</b> )
	[37]	<b>Huff, K.</b> “Excess Single Event Effects in the Second Chip of a Series.” Los Alamos Neutron Science Center. August 2003.
OTHER PUBLICATIONS	[38]	<b>Huff, K.</b> An Integrated Used Fuel Disposition and Generic Repository Model for Fuel Cycle Analysis. Ph.D. Dissertation–Nuclear Engineering and Engineering Physics. University of Wisconsin – Madison. August 2013.
	[39]	<b>Huff, K.</b> “Celestial Calibrations of the Quiet Telescope.” Undergraduate Honors Thesis. University of Chicago. June 2008.
	[40]	Biris, O., Gracey, K., <b>Huff, K.</b> , Ng, W.K. “An Analysis of the Consolidated Fuel Treatment Center Nuclear Reprocessing Initiative.” <b>Big Problems Energy Seminar. University of Chicago.</b> June 2008.
SOFTWARE PRODUCTS	[41]	<b>Huff, K.</b> “PyRK v0.1” <b>figshare</b> . <a href="http://dx.doi.org/10.6084/m9.figshare.1540727">http://dx.doi.org/10.6084/m9.figshare.1540727</a> . September 2015.
	[42]	Bates, C., Biondo, E., Brachem, C., Carlsen, R., Cary, J., Davis, A., Dembia, C., Elfring, M., Flanagan, R., Gidden, M., Haines, T., Howland, J., Huff, B., <b>Huff, K.</b> , Jackson, S., Kiesling, K., Klebenow, M., Kuett, M., Manalo, K., M. McCormick, A. Opotowsky, C., Pavlovsky, R., Rabbani, M., Relson, E., Romano, P., Scopatz, A., Shriwise, P., Slaybaugh, R., Wilson, P., Xia, J., J. Zachman, C., and Zweig, M. “PyNE v0.5.” <b>github</b> . <a href="https://github.com/pyne/pyne/releases/tag/0.5.0">github.com/pyne/pyne/releases/tag/0.5.0</a> . April 2015.
	[43]	Carlsen, R., Gidden, M. <b>Huff, K.</b> , Opotowsky, A., Rakhimov, O., Scopatz, A., Welch, Z., Wilson, P. “CYCLUS v1.0.0.” <b>figshare</b> . <a href="http://dx.doi.org/10.6084/m9.figshare.1041745">http://dx.doi.org/10.6084/m9.figshare.1041745</a> . June 2014.
	[44]	Carlsen, R., Gidden, M. <b>Huff, K.</b> , Opotowsky, A., Rakhimov, O., Scopatz, A., Welch, Z., Wilson, P. “Cycamore v1.0.0.” <b>figshare</b> . <a href="http://dx.doi.org/10.6084/m9.figshare.1041829">http://dx.doi.org/10.6084/m9.figshare.1041829</a> . June 2014.
SELECTED INVITED TALKS		<b>Michigan State</b> , Computational, Mathematics, Science, and Engineering, <i>Seminar</i> . <b>Dec 15, 2015</b>
		<b>U. Illinois</b> , Nuclear, Plasma, & Radiological Engineering, <i>Seminar</i> . <b>Dec 8, 2015</b>
		<b>SC15, Austin TX</b> , Python in High Performance Computing workshop, <i>Keynote</i> . <b>Nov 15, 2015</b>
		<b>U. Illinois</b> , National Center for Supercomputing Applications, <i>Colloquium</i> . <b>Nov 6, 2015</b>
		<b>North Carolina State University</b> , Nuclear Engineering, <i>Colloquium</i> . <b>Oct 15, 2015</b>
		<b>Texas A&amp;M University</b> , Nuclear Engineering, <i>Colloquium</i> . <b>Sep 29, 2015</b>
ENGINEERING TEACHING		<b>Rensselaer Polytechnic Inst</b> , Mechanical and Nuclear Engineering, <i>Colloquium</i> . <b>Sep 21, 2015</b>
		<b>University of Washington</b> , What Can Academia Learn from Open Source?, <i>Panel</i> . <b>Feb 2, 2015</b>
		<b>University of California, Berkeley</b> , DEPT. OF NUCLEAR ENGINEERING <b>Apr 1,3,22, 2015</b> <i>NE 155, Introduction to Numerical Simulations in Radiation Transport</i> Point Reactor Kinetics, Monte Carlo Methods
		<b>University of California, Berkeley</b> , DEPT. OF NUCLEAR ENGINEERING <b>Sep 11, 2014</b> <i>NE 255, Numerical Simulation in Radiation Transport</i> Best Practices in Computational Nuclear Engineering

	<b>University of Wisconsin - Madison</b> , DEPT. OF NUCLEAR ENGINEERING <i>NE 571, Economic and Environmental Aspects of Nuclear Energy</i> Nuclear Waste Repository Technology, Policy, and History	<b>Apr 1&amp;3, 2013</b>
	<b>University of Wisconsin - Madison</b> , DEPT. OF NUCLEAR ENGINEERING <i>NE 406, Nuclear Reactor Analysis</i> UNIX Shell, Basic Scripting, Environment Variables, Permissions, Regular Expressions, Makefiles	<b>Sep 9&amp;11, 2009</b>
	<b>University of Wisconsin - Madison</b> , DEPT. OF NUCLEAR ENGINEERING <i>NE 506, Practicum in Monte Carlo Radiation Transport</i> UNIX Shell, Basic Scripting, Environment Variables, Permissions, Regular Expressions, Makefiles	<b>Feb 10, 2010</b>
INVITED SCIENTIFIC COMPUTING TEACHING	<b>SciPy Conference</b> , Austin, TX Introductory Python For Scientific Software	<b>Jul 6–7, 2015</b>
	<b>University of Split</b> , Split, Croatia G-Node Advanced Scientific Programming in Python Summer School	<b>Sep 8–13, 2014</b>
	<b>SciPy Conference</b> , Austin, TX Version Control and Unit Testing For Scientific Software	<b>Jun 25, 2013</b>
	<b>University of Chicago, Graduate School</b> , Chicago, IL Computational Literacy Workshop	<b>Jan 12–13, 2013</b>
	<b>University of California, Berkeley</b> , Berkeley, CA Department of Statistics Scientific Computing Workshop	<b>Oct 20–21, 2012</b>
	<b>Lawrence Berkeley National Laboratory</b> , Berkeley, CA Software Carpentry Python Workshop	<b>Oct 17–18, 2012</b>
	<b>International Center for Theoretical Physics</b> , Trieste, Italy UNESCO/IAEA Advanced School on Scientific Software Development	<b>Feb 20–Mar 2, 2012</b>
	<b>University of Toronto</b> , Toronto, ON, Canada SciNet Consortium For High Performance Computing Software Carpentry Bootcamp	<b>Nov 7–8, 2011</b>
	<b>American Nuclear Society Winter Meeting</b> , Washington, D.C. Young Professionals Congress Hacker Within Scientific Computing Tutorial	<b>Nov 1, 2011</b>
	<b>Michigan State University</b> , East Lansing, MI Institute for Cyber Enabled Research (iCER) and BEACON Center THW Bootcamp	<b>Jun 4–5, 2011</b>
SCIENTIFIC COMPUTING TEACHING	<b>Berkeley Institute for Data Science</b> , Berkeley, CA Managing Databases in SQL	<b>Jan 14–15, 2015</b>
	<b>Berkeley Institute for Data Science</b> , Berkeley, CA Testing for Scientific Software	<b>Jun 4–5, 2015</b>
	<b>Lawrence Berkeley National Laboratory</b> , Berkeley, CA Women in Science and Engineering Bootcamp	<b>Apr 14–15, 2014</b>
	<b>The University of Chicago</b> , Chicago, IL Software Carpentry Scientific Computing Workshop	<b>Apr 2–3, 2012</b>
	<b>The University of Wisconsin</b> , Madison, WI The Hacker Within Software Carpentry Bootcamp	<b>Jan 12–14, 2011</b>
	<b>The University of Wisconsin</b> , Madison, WI The Hacker Within Python Bootcamp	<b>Jan 12–14, 2010</b>
	<b>The University of Wisconsin</b> , Madison, WI The Hacker Within C++ Bootcamp	<b>Mar 24–31, 2009</b>
	<b>The University of Wisconsin</b> , Madison, WI University of Wisconsin, Hacker Within UNIX Bootcamp	<b>Jan 12–15, 2009</b>

SCIENTIFIC COMPUTING SKILLS	<b>Languages</b>	bash/csh, C++, FORTRAN, Perl, Python, XML
	<b>Build Systems</b>	make, CMake, automake
	<b>Databases</b>	HDF5, SQL
	<b>Test Frameworks</b>	CTest, GoogleTest, nose
	<b>Version Control</b>	cvs, git, hg, svn
	<b>Other Tools</b>	Doxygen, Sphinx, GoldSim, L <sup>A</sup> T <sub>E</sub> X, Mathematica, MatLab, MCNP, MOOSE
EDITING AND REVIEWING	<b>Editor</b>	<i>Journal of Open Source Software</i> <b>2016</b> <i>Proceedings of the SciPy Scientific Python Conference</i> <b>2013 &amp; 2015</b>
	<b>Manuscript Referee</b>	<i>Nuclear Engineering and Design</i> <i>Progress in Nuclear Energy</i> <i>Nuclear Science and Engineering</i> <i>Journal of Nuclear Energy Science and Power Generation Technology</i>
	<b>Grant Proposal Referee</b>	<i>Department of Energy Nuclear Energy University Programs</i> <i>Alfred P. Sloan Foundation</i>
	<b>Book Proposal Referee</b>	<i>O'Reilly Media</i>
PROFESSIONAL SERVICE	<b>Chair</b> , Fuel Cycle & Waste Management Division, ANS	<b>2016–2017</b>
	<b>Vice Chair</b> , Fuel Cycle & Waste Management Division, ANS	<b>2015–2016</b>
	<b>Chair</b> , Steering Committee, Software Carpentry Foundation	<b>2014–2015</b>
	<b>Secretary–Treasurer</b> , Fuel Cycle & Waste Management Division, ANS	<b>2013–2015</b>
	<b>Secretary</b> , Young Members Group, ANS	<b>2013–2014</b>
	<b>Technical Program Co-Chair</b> , SciPy, Scientific Python Conference	<b>2013–2014</b>
	<b>Member</b> , Next Generation Leadership Committee, Waste Management Symposium	<b>2013–2014</b>
	<b>Moderator, Organizer, Panelist</b> , inSCIght Scientific Computing Podcast	<b>2011–2013</b>
	<b>Co-Founder</b> , Nuclear Pride, LGBTQA Organization	<b>2011–2013</b>
	<b>Co-Founder, Treasurer, President</b> , Hacker Within Scientific Computing Group	<b>2008–2011</b>
	<b>Governor, Treasurer</b> , University of Wisconsin ANS student section	<b>2008–2010</b>