

Kathryn D. Huff

CONTACT INFORMATION	<i>Department of Energy Office of Nuclear Energy Acting Assistant Secretary Principal Deputy Assistant Secretary</i>	DOE mobile: (240) 255-8732 DOE e-mail: kathryn.huff@nuclear.energy.gov personal mobile: (281) 734-1342 personal e-mail: katyhuff@gmail.com
RESEARCH INTERESTS	Advanced nuclear reactors and fuel cycles, multi-physics simulation, nuclear fuel cycle analysis, scientific computation.	
PHD	University of Wisconsin - Madison, NUCLEAR ENGINEERING • An Integrated Used Fuel Disposition and Generic Repository Model for Fuel Cycle Analysis • Advisor: Professor Paul P.H. Wilson	Aug 2008 – Aug 2013
BA	University of Chicago, PHYSICS • Celestial Gain Calibrations of QUIET Telescope Polarimeters	Aug 2004 – Jun 2008
RESEARCH AND PROFESSIONAL EXPERIENCE	Office of Nuclear Energy, Department of Energy, Washington, DC <i>Acting Assistant Secretary, Nuclear Energy</i> <i>Principal Deputy Assistant Secretary, Nuclear Energy</i> Non-Career Senior Executive Service position. On extended Unpaid Leave of Absence from the University of Illinois.	May 2021 – Present May 2021 – Present
	University of Illinois at Urbana-Champaign, Urbana, IL <i>Unpaid Leave of Absence</i> <i>Assistant Professor, Nuclear Plasma and Radiological Engineering</i> <i>Blue Waters Asst. Professor</i> <i>Affiliate Faculty, National Center for Supercomputing Applications</i> <i>Affiliate Faculty, Computational Science and Engineering</i> investigator, advanced reactors and fuel cycles group.	May 2021 – Present Aug 2016 – May 2021 Aug 2016 – May 2021 Aug 2016 – May 2021 Aug 2018 – May 2021 Principal
	University of California - Berkeley, NE Dept., Berkeley, CA <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.	Sep 2013 – Jul 2016 Aug 2014 – Jul 2016
	Argonne National Laboratory, Argonne, IL <i>Laboratory Graduate Research Appointee, Used Fuel Disposition Campaign</i> Developed a used fuel disposition and generic repository computational model.	Jun 2011 – Aug 2013
	University of Wisconsin - Madison, NEEP Dept., Madison, WI <i>Graduate Research Assistant, Computational Nuclear Engineering Research Group</i> Developed and applied CYCLUS, a nuclear fuel cycle systems analysis tool.	Jun 2008 – Aug 2013
	Idaho National Laboratory, Idaho Falls, ID <i>Graduate Research Assistant, Systems Analysis Campaign</i> Developed software functions and requirements for the Fuel Cycle Simulator concept.	Jun – Aug 2010
	Kavli Institute For Cosmological Physics, Chicago, IL <i>Research Assistant, Laboratory for Astrophysics and Space Research</i> Programmed & machined instrumentation. Planned protocol for QUIET polarimeter calibration.	Jan 2005 – Jun 2008
	Universidad de Chile, Physics Dept., Santiago, Chile <i>Research Assistant, Chicago-Chile Research Exchange Program</i> Constructed and operated a far-from-equilibrium granular materials experiment.	Jun – Sep 2006
	Los Alamos Neutron Science Center, Los Alamos, NM <i>Research Assistant, LANSCE-3</i>	Jun – Sep 2004 May – Aug 2003

Applied digital filtration algorithms and MCNPX models to experimental data.

HONORS AND AWARDS	Stanley H. Pierce Award, UIUC Engineering Council	2019
	American Nuclear Society, Oestmann Professional Women's Achievement Award	2017
	AE3, Collins Scholars Program Graduate	2017
	NPRE, Students Award for Excellence in Undergraduate Teaching	2017
	UIUC, Teachers Ranked as Excellent	F 2016, S 2020
	American Nuclear Society, Young Member Excellence Award	2016
	National Energy Research Scientific Computing Allocation, Senior Investigator	2015–2016
	Data Science Fellowship, Berkeley Institute for Data Science, UC Berkeley	2014–2016
	Nuclear Science and Security Consortium Postdoctoral Fellowship, UC Berkeley	2013–2016
	DOE Office of Science Laboratory Graduate Appointment, Argonne National Lab	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 National Lab	2004

GRANTS AWARDED	Nuclear Science and Security Consortium¹	Period: 2021–2026
	Source: DOE-NNSA Office of DNN R&D	Award Total: \$25,000,000
	Role: Consortium Co-PI, UIUC PI, Thrust Area Lead	Huff Allocation: \$625,000
	Evaluation of micro-reactor requirements and performance in an existing well-characterized micro-grid¹	Period: 2020–2022
	Source: DOE-NEUP	Award Total: \$800,000
	Role: Co-PI	Huff Allocation: \$265,000
	Enabling Load Following Capability in the Transatomic Power MSR¹	Period: 2018–2021
	Source: ARPA - E - MEITNER	Award Total: \$999,694
	Role: Principal Investigator	Huff Allocation: \$205,000
	US Research Software Sustainability Institute (URSSI)	Period: 2017–2018
	Source: NSF - OAC - SI2 - S2I2 Conceptualization	Award Total: \$499,999
	Role: Senior Personnel	Huff Allocation: N/A
	Dynamic Transition Analysis with TIMES	Period: 2018–2019
	Source: I ² CNER	Award Total: \$76,359
	Role: Co-PI	Huff Allocation: \$76,359
	Investigation of Agricultural Uses of Nuclear Waste Heat	Period: 2017–2018
	Source: Exelon	Award Total: \$151,257
	Role: Co-PI	Huff Allocation: \$11,678
	Consortium for Verification Technology	Period: 2015–2020
	Source: DOE-NNSA Office of DNN R&D	Award Total: \$25,000,000
	Role: Consortium Co-PI, UIUC PI, CVT Investigator	Huff Allocation: \$347,000
	Consortium for Nonproliferation Enabling Capabilities	Period: 2014–2019
	Source: DOE-NNSA Office of DNN R&D	Award Total: \$25,000,000
	Role: Consortium Co-PI, UIUC PI, Thrust Area Lead	Huff Allocation: \$648,000
	Collaborative, Open-Source Curriculum Development	Period: 2017–2018
	Source: UIUC Strategic Instructional Innovations Program	Award Total: \$19,347
	Role: Principal Investigator	Huff Allocation: \$13,000
	REU Site: INCLUSION at U. Illinois	Period: 2017–2020
	Source: NSF - ACI	Award Total: \$380,036
	Role: Senior Personnel	Huff Allocation: N/A
	Demand-Driven Cycamore Archetypes	Period: 2016–2019
	Source: DOE, NEUP R&D	Award Total: \$800,000

¹PI-ship transferred to other leadership in May 2021 corresponding with unpaid leave of absence.

- BOOKS
- [1] A. M. Scopatz and **K. D. Huff**. *Effective computation in physics: Field guide to research with python*. O'Reilly Media, Sebastopol, CA, 1 edition, May 2015. URL: <http://shop.oreilly.com/product/0636920033424.do>
- BOOK CHAPTERS
- [2] **K. Huff**. Chapter One - Economics of Advanced Reactors and Fuel Cycles. In H. Bindra, editor, *Storage and Hybridization of Nuclear Energy*, volume 1, pages 1–20. Science & Technology Books Elsevier, Inc., Cambridge, MA, United States, 1 edition, Jan. 2019. URL: <http://www.sciencedirect.com/science/article/pii/B9780128139752000016>, doi:10.1016/B978-0-12-813975-2.00001-6
- [3] **K. Huff**. Case Study: Cyclus Project. In J. Kitzes, F. Imamoglu, and D. Turek, editors, *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*, volume 1. University of California Press, University of California, Berkeley, 1 edition, 2017. URL: <https://www.ucpress.edu/book.php?isbn=9780520294752>
- [4] **K. Huff**. Lessons Learned. In J. Kitzes, F. Imamoglu, and D. Turek, editors, *The Practice of Reproducible Research: Case Studies and Lessons from the Data-Intensive Sciences*, volume 1. University of California Press, University of California, Berkeley, 1 edition, 2017. URL: <https://www.ucpress.edu/book.php?isbn=9780520294752>
- JOURNAL PUBLICATIONS
- [5] A. Chapman, Y. Shigetomi, S. Chandra Karmaker, B. Baran Saha, **K. Huff**, C. Brooks, and J. Stubbins. The cultural dynamics of energy: The impact of lived experience, preference and demographics on future energy policy in the United States. *Energy Research & Social Science*, 80:102231, Oct. 2021. (submitted before May 2021). URL: <https://www.sciencedirect.com/science/article/pii/S2214629621003248>, doi:10.1016/j.erss.2021.102231
- [6] A. Chaube, A. Chapman, A. Minami, J. Stubbins, and **K. D. Huff**. The role of current and emerging technologies in meeting Japan's mid- to long-term carbon reduction goals. *Applied Energy*, 304:117669, Dec. 2021. URL: <https://www.sciencedirect.com/science/article/pii/S0306261921010308>, doi:10.1016/j.apenergy.2021.117669
- [7] O. Ashraf, A. Rykhlevskii, G. V. Tikhomirov, and **K. D. Huff**. Preliminary design of control rods in the single-fluid double-zone thorium molten salt reactor (SD-TMSR). *Annals of Nuclear Energy*, 152:108035, Mar. 2021. URL: <http://www.sciencedirect.com/science/article/pii/S0306454920307313>, doi:10.1016/j.anucene.2020.108035
- [8] O. Ashraf, A. Rykhlevskii, G. V. Tikhomirov, and **K. D. Huff**. Strategies for thorium fuel cycle transition in the SD-TMSR. *Annals of Nuclear Energy*, 148:107656, Dec. 2020. URL: <http://www.sciencedirect.com/science/article/pii/S0306454920303546>, doi:10.1016/j.anucene.2020.107656
- [9] E. A. Miernicki, A. L. Heald, **K. D. Huff**, C. S. Brooks, and A. J. Margenot. Nuclear waste heat use in agriculture: History and opportunities in the United States. *Journal of Cleaner Production*, 267:121918, Sept. 2020. URL: <http://www.sciencedirect.com/science/article/pii/S095965262031965X>, doi:10.1016/j.jclepro.2020.121918
- [10] G. J. Chee, R. E. F. Agosta, J. W. Bae, R. R. Flanagan, A. M. Scopatz, and **K. D. Huff**. Demand-Driven Deployment Capabilities in Cyclus, a Fuel Cycle Simulator. *Nuclear Technology*, 0(0):1–22, July 2020. doi:10.1080/00295450.2020.1753444
- [11] A. Chaube, A. Chapman, Y. Shigetomi, **K. Huff**, and J. Stubbins. The Role of Hydrogen in Achieving Long Term Japanese Energy System Goals. *Energies*, 13(17):4539, Sept. 2020. Number: 17 Publisher: Multidisciplinary Digital Publishing Institute. URL: <https://www.mdpi.com/1996-1073/13/17/4539>, doi:10.3390/en13174539
- [12] J. W. Bae, A. Rykhlevskii, G. Chee, and **K. D. Huff**. Deep learning approach to nuclear fuel transmutation in a fuel cycle simulator. *Annals of Nuclear Energy*, 139:107230, May 2020. URL: <http://www.sciencedirect.com/science/article/pii/S0306454919307406>, doi:10.1016/j.anucene.2019.107230

- [13] O. Ashraf, A. Rykhlevskii, G. Tikhomirov, and **K. D. Huff**. Whole core analysis of the single-fluid double-zone thorium molten salt reactor (SD-TMSR). *Annals of Nuclear Energy*, 137:107–115, Mar. 2020. URL: <http://www.sciencedirect.com/science/article/pii/S0306454919306255>, doi: <https://doi.org/10.1016/j.anucene.2019.107115>
- [14] M. Kamuda, J. Zhao, and **K. Huff**. A comparison of machine learning methods for automated gamma-ray spectroscopy. *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, 954:161385, Feb. 2020. URL: <http://www.sciencedirect.com/science/article/pii/S0168900218313779>, doi: [10.1016/j.nima.2018.10.063](https://doi.org/10.1016/j.nima.2018.10.063)
- [15] J. W. Bae, C. E. Singer, and **K. D. Huff**. Synergistic spent nuclear fuel dynamics within the European Union. *Progress in Nuclear Energy*, 114:1–12, July 2019. URL: <http://www.sciencedirect.com/science/article/pii/S014919701930037X>, doi: [10.1016/j.pnucene.2019.02.001](https://doi.org/10.1016/j.pnucene.2019.02.001)
- [16] J. W. Bae, J. L. Peterson-Droogh, and **K. D. Huff**. Standardized verification of the Cyclus fuel cycle simulator. *Annals of Nuclear Energy*, 128:288–291, June 2019. URL: <http://www.sciencedirect.com/science/article/pii/S0306454919300179>, doi: [10.1016/j.anucene.2019.01.014](https://doi.org/10.1016/j.anucene.2019.01.014)
- [17] A. Rykhlevskii, J. W. Bae, and **K. D. Huff**. Modeling and simulation of online reprocessing in the thorium-fueled molten salt breeder reactor. *Annals of Nuclear Energy*, 128:366–379, June 2019. URL: <http://www.sciencedirect.com/science/article/pii/S0306454919300350>, doi: [10.1016/j.anucene.2019.01.030](https://doi.org/10.1016/j.anucene.2019.01.030)
- [18] A. Lindsay, G. Ridley, A. Rykhlevskii, and **K. Huff**. Introduction to Moltres: An application for simulation of Molten Salt Reactors. *Annals of Nuclear Energy*, 114:530–540, Apr. 2018. URL: <https://linkinghub.elsevier.com/retrieve/pii/S0306454917304760>, doi: [10.1016/j.anucene.2017.12.025](https://doi.org/10.1016/j.anucene.2017.12.025)
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- [24] **K. D. Huff**, M. J. Gidden, R. W. Carlsen, R. R. Flanagan, M. B. McGarry, A. C. Opotowsky, E. A. Schneider, A. M. Scopatz, and P. P. H. Wilson. Fundamental concepts in the Cyclus nuclear fuel cycle simulation framework. *Advances in Engineering Software*, 94:46–59, Apr. 2016. arXiv: 1509.03604. URL: <http://www.sciencedirect.com/science/article/pii/S0965997816300229>, doi: [10.1016/j.advengsoft.2016.01.014](https://doi.org/10.1016/j.advengsoft.2016.01.014)
- [25] G. V. Wilson, D. A. Aruliah, C. T. Brown, N. P. Chue Hong, M. Davis, R. T. Guy, S. H. D. Haddock, **K. D. Huff**, I. M. Mitchell, M. D. Plumbly, B. Waugh, E. P. White, and P. Wilson. Best Practices for Scientific Computing. *PLoS Biol*, 12(1):e1001745, Jan. 2014. URL: <http://dx.doi.org/10.1371/journal.pbio.1001745>, doi: [10.1371/journal.pbio.1001745](https://doi.org/10.1371/journal.pbio.1001745)

- [26] M. G. Clerc, P. Cordero, J. Dunstan, **K. D. Huff**, N. Mujica, D. Risso, and G. Varas. Liquid-solid-like transition in quasi-one-dimensional driven granular media. *Nature Physics*, 4(3):249–254, Mar. 2008. URL: <http://dx.doi.org.ezproxy.library.wisc.edu/10.1038/nphys884>, doi:10.1038/nphys884
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- [28] B. R. Betzler, A. Rykhlevskii, A. Worrall, and **K. D. Huff**. Impacts of Fast-Spectrum Molten Salt Reactor Characteristics on Fuel Cycle Performance. In *Proceedings of GLOBAL International Fuel Cycle Conference*, Seattle, WA, United States, Sept. 2019. American Nuclear Society. URL: <http://epubs.ans.org/?a=46968>
- [29] G. Chee, J. W. Bae, **K. D. Huff**, R. R. Flanagan, and R. Fairhurst. Demonstration of Demand-Driven Deployment Capabilities in Cyclus. In *Proceedings of Global/Top Fuel 2019*, pages 394–401, Seattle, WA, United States, Sept. 2019. American Nuclear Society. URL: <http://epubs.ans.org/?a=46949>
- [30] R. R. Flanagan, J. W. Bae, **K. D. Huff**, G. J. Chee, and R. Fairhurst. Methods for Automated Fuel Cycle Facility Deployment. In *Proceedings of Global/Top Fuel 2019*, pages 402–427, Seattle, WA, United States, Sept. 2019. American Nuclear Society. URL: <http://epubs.ans.org/?a=46950>
- [31] S. M. Park, A. Rykhlevskii, and **K. Huff**. Safety Analysis of the Molten Salt Fast Reactor Fuel Composition using Moltres. In *Proceedings of GLOBAL International Fuel Cycle Conference*, Seattle, WA, United States, Sept. 2019. American Nuclear Society. URL: <http://epubs.ans.org/?a=47030>, doi:10.31224/osf.io/7ce89
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- [146] S. Tippmann. My digital toolbox: Nuclear engineer Katy Huff on version-control systems. *Nature News*, Sept. 2014. media. URL: <http://www.nature.com/news/my-digital-toolbox-nuclear-engineer-katy-huff-on-version-control-systems-1.16014>, doi:10.1038/nature.2014.16014

INVITED TALKS	American Nuclear Society , NPT at 50 Years Webinar <i>Invited Panelist</i> .	Feb 15, 2021
	U.C. Berkeley , Nuclear Engineering <i>Colloquium</i> .	Jan 22, 2021
	GAIN-EPRI-NEI , Microreactor Program Virtual Workshop, <i>Invited Panelist</i> .	Aug 19, 2020
	Society of Women Engineers , Graduate Community Virtual <i>Seminar</i> .	May 20, 2020
	SIAM CSE 2019 , Spokane, WA, <i>Invited Minisymposium Speaker</i>	Feb 25, 2019
	SciFOO , Google X, <i>Invited Camper</i> .	Jun 23, 2018
	U. Illinois , Hack Illinois, <i>Keynote</i> .	Feb 24, 2018
	U. Michigan , Nuclear Engineering and Radiological Sciences <i>Seminar</i> .	Feb 9, 2018
	PyData , Meetup, Ann Arbor, MI <i>Invited Tech. Talk</i> .	Feb 8, 2018
	Olin College of Engineering , <i>Seminar</i> .	Oct 31, 2017
	Argonne National Laboratory , NNSA Nuclear Nonproliferation, <i>Seminar</i> .	Sep 21, 2017
	SciPy 2017 , Scientific Python Conference, Austin, TX, <i>Keynote</i> .	Jul 12, 2017
	ANS Annual , Young Members Group, Workforce Transition, <i>Panel</i> .	Jun 13, 2017
	ANS Annual , Mathematics and Computation Division, Current Issues, <i>Panel</i> .	Jun 12, 2017
	Oak Ridge National Laboratory , RPNDS, <i>Seminar</i> .	Jun 29, 2017
	PyCon 2017 , Portland, OR. <i>Keynote</i> .	May 19, 2017
	U. California, Davis , Mechanical and Aerospace Engineering, <i>Seminar</i> .	April 20, 2017
	U. Illinois , Computational Science and Engineering, <i>Seminar</i> .	Feb 2, 2017
	U. Illinois , AE3 Lightning Symposium, <i>Lightning Talk</i> .	Mar 2, 2017
	U. Illinois , Nuclear, Plasma, & Radiological Engineering, <i>Undergraduate Seminar</i> .	Feb 14, 2017
	U. California, Berkeley , Berkeley Institute for Data Science, <i>Symposium</i> .	Jan 27, 2017
	U. Illinois , Informatics, <i>Seminar</i> .	Oct 13, 2016
	PyData 2016 , Chicago, IL. <i>Keynote</i> .	Aug 27, 2016
	Oak Ridge National Laboratory , RPNDS, <i>Seminar</i> .	Mar 3, 2016
	U. Tennessee, Knoxville , Nuclear Engineering, <i>Seminar</i> .	Mar 2, 2016
	Michigan State , Computational, Mathematics, Science, and Engineering, <i>Seminar</i> .	Dec 15, 2015
	U. Illinois , Nuclear, Plasma, & Radiological Engineering, <i>Seminar</i> .	Dec 8, 2015
	SC15, Austin TX , Python in High Performance Computing workshop, <i>Keynote</i> .	Nov 15, 2015
	U. Illinois , National Center for Supercomputing Applications, <i>Colloquium</i> .	Nov 6, 2015
	North Carolina State University , Nuclear Engineering, <i>Colloquium</i> .	Oct 15, 2015
	Texas A&M University , Nuclear Engineering, <i>Colloquium</i> .	Sep 29, 2015
	Rensselaer Polytechnic Inst , Mechanical and Nuclear Engineering, <i>Colloquium</i> .	Sep 21, 2015
	U. Washington , What Can Academia Learn from Open Source?, <i>Panel</i> .	Feb 2, 2015
ENGINEERING TEACHING	University of Illinois at Urbana-Champaign	
	DEPT. OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING	
	<i>NPRE 247, Modeling Nuclear Energy Systems</i>	Fall 2018
	<i>NPRE 412, Nuclear Power Economics and Fuel Management</i>	Fall 2016
		Fall 2017
		Spring 2020
		Spring 2021
	<i>NPRE 446, Radiation Interactions with Matter I</i>	Fall 2019
	<i>NPRE 555, Reactor Theory I</i>	Spring 2018
GUEST LECTURES		Fall 2020
	<i>NPRE 560, Reactor Kinetics and Dynamics</i>	Spring 2019
	University of California, Berkeley , DEPT. OF NUCLEAR ENGINEERING	Nov 10, 2020
	<i>NE 100, Introduction to Nuclear Engineering</i>	
	Nuclear Fuel Cycle, Advanced Reactors	
	University of California, Berkeley , DEPT. OF NUCLEAR ENGINEERING	Apr 1,3,22, 2015
	<i>NE 155, Introduction to Numerical Simulations in Radiation Transport Point Reactor Kinetics</i> , Monte	

Carlo Methods

University of California, Berkeley, DEPT. OF NUCLEAR ENGINEERING Sep 11, 2014
NE 255, Numerical Simulation in Radiation Transport
Best Practices in Computational Nuclear Engineering

University of Wisconsin - Madison, DEPT. OF NUCLEAR ENGINEERING Apr 1&3, 2013
NE 571, Economic and Environmental Aspects of Nuclear Energy
Nuclear Waste Repository Technology, Policy, and History

University of Wisconsin - Madison, DEPT. OF NUCLEAR ENGINEERING Sep 9&11, 2009
NE 406, Nuclear Reactor Analysis
UNIX Shell, Basic Scripting, Environment Variables, Permissions, Regular Expressions, Makefiles

University of Wisconsin - Madison, DEPT. OF NUCLEAR ENGINEERING Feb 10, 2010
NE 506, Practicum in Monte Carlo Radiation Transport
UNIX Shell, Basic Scripting, Environment Variables, Permissions, Regular Expressions, Makefiles

INVITED
SCIENTIFIC
COMPUTING
TEACHING

SciPy Conference, Austin, TX Jul 6–7, 2015
Introductory Python For Scientific Software

University of Split, Split, Croatia Sep 8–13, 2014
G-Node Advanced Scientific Programming in Python Summer School

SciPy Conference, Austin, TX Jun 25, 2013
Version Control and Unit Testing For Scientific Software

University of Chicago, Graduate School, Chicago, IL Jan 12–13, 2013
Computational Literacy Workshop

University of California, Berkeley, Berkeley, CA Oct 20–21, 2012
Department of Statistics Scientific Computing Workshop

Lawrence Berkeley National Laboratory, Berkeley, CA Oct 17–18, 2012
Software Carpentry Python Workshop

International Center for Theoretical Physics, Trieste, Italy Feb 20–Mar 2, 2012
UNESCO/IAEA Advanced School on Scientific Software Development

University of Toronto, Toronto, ON, Canada Nov 7–8, 2011
SciNet Consortium For High Performance Computing Software Carpentry Bootcamp

American Nuclear Society Winter Meeting, Washington, D.C. Nov 1, 2011
Young Professionals Congress Hacker Within Scientific Computing Tutorial

Michigan State University, East Lansing, MI Jun 4–5, 2011
Institute for Cyber Enabled Research (iCER) and BEACON Center THW Bootcamp

SCIENTIFIC
COMPUTING
TEACHING

Berkeley Institute for Data Science, Berkeley, CA Jan 14–15, 2015
Managing Databases in SQL

Berkeley Institute for Data Science, Berkeley, CA Jun 4–5, 2015
Testing for Scientific Software

Lawrence Berkeley National Laboratory, Berkeley, CA Apr 14–15, 2014
Women in Science and Engineering Bootcamp

The University of Chicago, Chicago, IL Apr 2–3, 2012
Software Carpentry Scientific Computing Workshop

The University of Wisconsin, Madison, WI Jan 12–14, 2011
The Hacker Within Software Carpentry Bootcamp

The University of Wisconsin, Madison, WI Jan 12–14, 2010
The Hacker Within Python Bootcamp

The University of Wisconsin, Madison, WI Mar 24–31, 2009
The Hacker Within C++ Bootcamp

POSTDOCTORAL RESEARCHERS	<u>NAME</u>	<u>DATES</u>	<u>ROLE</u>
	Mehmet Turkmen	2019–2020	Advisor
	Alexander Lindsay	2016–2017	Advisor

GRADUATE RESEARCHERS	<u>NAME</u>	<u>DEGREE - YEAR</u>	<u>ROLE</u>
	Michael Cheng	MS - 2017	MS Second Reader
	Mark Kamuda	MS - 2017	MS Second Reader
	Mark Kamuda	PhD - 2019	PhD Advisor
	Gregory Westphal	MS - 2019	MS Advisor
	Erik Medhurst	MS - 2020	MS Advisor
	Andrei Rykhlevskii	PhD - 2020	PhD Advisor
	Jin Whan Bae	MS - 2019	MS Advisor
	Katherine C. Hepler	PhD - 2020	Dissertation Committee Chair
	Alvin Lee	MS - 2020	MS Second Reader
	Sun Myung Park	PhD - (est. 2022)	PhD Advisor
	Anshuman Chaube	PhD - (est. 2022)	PhD Advisor
	Gwendolyn Chee	PhD - (est. 2022)	PhD Advisor
	Roberto Fairhurst-Agosta	PhD - (est. 2023)	PhD Advisor
	Zoë Richter	PhD - (est. 2023)	PhD Advisor
	Samuel Dotson	PhD - (est. 2024)	PhD Advisor
	Amanda Bachmann	PhD - (est. 2024)	PhD Advisor
	Luke Seifert	PhD - (est. 2025)	PhD Advisor
	Lu Kissinger	PhD - (est. 2025)	PhD Advisor
	Oleksandr Yardas	PhD - (est. 2025)	PhD Advisor

UNDERGRADUATE RESEARCHERS	<u>NAME</u>	<u>DEGREE - YEAR</u>	<u>SCHOLARSHIPS</u>
	Jin Whan Bae	BS - 2017	NPRES Outstanding Undergrad Research ANS Best Student Fuel Cycle Presentation Roy G. Post Foundation Scholarship ANS FCWMD Randall Scholar
	Kathryn Mummah	BS - 2017	
	Eric Riewski	BS - 2017	
	GyuTae Park	BS - (est. 2018)	
	Yukun Tan	BS - (est. 2018)	Students Pushing Innovation
	Lu Kissinger	BS - 2019	
	Xin Wen	BS - 2018	Students Pushing Innovation
	Daniel Chu	BS - 2020	
	Tyler Kennelly	BS - 2019	
	Bradley Ellis	BS - 2019	
	Adam Pichman	BS - 2019	
	Zoë Richter	BS - 2018	
	Gavin Davis	BS - (est. 2021)	
	Kip Kleimenhagen	BS - (est. 2021)	
	David Atwater	BS - (est. 2021)	
	Nathan Ryan	BS - (est. 2022)	
	Anna Balla	BS - (est. 2021)	
	Nataly Panczyk	BS - (est. 2024)	

VISITING RESEARCHERS	<u>NAME</u>	<u>DATES</u>	<u>LEVEL - INSTITUTION</u>
	Gavin Ridey	2017	BS–University of Tennessee, Knoxville
	Aditya Bhosale	2017	BS - IIT, Bombay
	Snehal Chandan	2017	BS - IIT, Bombay

SCIENTIFIC COMPUTING SKILLS	Languages	bash/csh, C++, FORTRAN, Perl, Python, XML
	Build Systems	make, CMake, automake
	Databases	HDF5, SQL
	Test Frameworks	CTest, GoogleTest, nose
	Version Control	cvs, git, hg, svn
	Other Tools	Doxygen, Sphinx, GoldSim, L ^A T _E X, Mathematica, MatLab, MCNP, MOOSE
EDITING AND REVIEWING	Editorial Board	<i>Journal of Open Source Software</i> 2016 – present
		<i>Journal of Open Source Education</i> 2018 – present
		<i>Nuclear Technology</i> 2018 – present
		<i>Nuclear Engineering and Design</i> 2020 – present
		<i>Papers in Physics</i> 2020 – 2023
		<i>Proceedings of the SciPy Scientific Python Conference</i> 2013, 2015, & 2017
	Manuscript Referee	<i>Annals of Nuclear Energy</i>
		<i>Journal of Nuclear Energy Science and Power Generation</i>
		<i>Nuclear Engineering and Design</i>
		<i>Nuclear Science and Engineering</i>
		<i>Nuclear Technology</i>
		<i>Progress in Nuclear Energy</i>
	Grant Proposal Referee	<i>Dept. of Energy Nuclear Energy University Programs</i>
		<i>Dept. of Energy Technology Commercialization Fund</i>
		<i>Blue Waters Fellows Program</i>
		<i>Alfred P. Sloan Foundation</i>
	Book Proposal Referee	<i>O'Reilly Media</i>
		<i>Elsevier</i>
PROFESSIONAL SERVICE	Advisory Committee , Digital Information Technology, Sloan Foundation	2019–2021
	Chair , Nonproliferation and Policy Division, ANS	2020–2021
	Executive Committee , Mathematics and Computation Division, ANS	2020–2021
	Vice Chair , Nonproliferation and Policy Division, ANS	2019–2020
	Chair & Host , Technical Workshop on Fuel Cycle Simulation	2019
	Past Chair (<i>ex officio</i>), Fuel Cycle & Waste Management Division, ANS	2016–2017
	Co-Organizer , Technical Workshop on Fuel Cycle Simulation	2017
	Technical Program Committee , IHLRWM Conference	2017
	Chair , Fuel Cycle & Waste Management Division, ANS	2016–2017
	Vice Chair , Fuel Cycle & Waste Management Division, ANS	2015–2016
	Chair , Steering Committee, Software Carpentry Foundation	2014–2015
	Secretary–Treasurer , Fuel Cycle & Waste Management Division, ANS	2013–2015
	Secretary , Young Members Group, ANS	2013–2014
	Technical Program Co-Chair , SciPy, Scientific Python Conference	2013–2014
	Member , Next Generation Leadership Committee, Waste Management Symposium	2013–2014
	Moderator, Organizer, Panelist , inSCIght Scientific Computing Podcast	2011–2013
	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
DEPARTMENTAL SERVICE	Faculty Advisor , UIUC ANS Student Section	2016–present

	Undergraduate Committee	2019–present
	Graduate Committee , Qualifying Exam Sub-Committee	2017-2019
	Admissions Sub-Committee	Spring 2017
	Admissions Sub-Committee	Fall 2016
	Advisory Committee ,	2017–2018
	Faculty Search Committee ,	2017–2018
	Faculty Advisor , UIUC WiN Student Section	2017–2018
COLLEGE SERVICE	Member , Instructional Facility Working Group,	2017-2018
	Selection Committee , Clare Boothe Luce (CBL) Research Scholars,	2020-2021
	Member , Engineering IT Governance Education Working Group,	2020-2021
	Faculty Mentor , ARISE program	2019-2020
	Member , ENG/TE Liaison Committee	2020-present
	Member , Instructional Facility Working Group	2017–2018
	Faculty Advisor , UIUC CSE The Hacker Within Scientific Computing Group	2016–2017
CAMPUS SERVICE	Steering Committee Member , Illinois Data Science Initiative	2018
	Hack Mentor , Hack Illinois	2017
CONSULTING	Thomas Edison State University Trenton, NJ	2018-2019
	<i>Subject Matter Expert</i> Institute of Nuclear Power Operations (INPO) Academic Program Review	