## Amanda M. Bachmann

CONTACT INFORMATION	NEUP Fellow, Graduate Research Assistant University of Illinois, Urbana-Champaign Nuclear, Plasma, and Radiological Engineer	e-mai	mobile: (813) 495-5698 il: amandab7@illinois.edu
РнD	<ul> <li>University of Illinois Urbana-Champaign, Nuclear Engineering Aug 2020 – Present</li> <li>Nuclear Fuel Cycle Transition to High Assay Low Enriched Uranium Fueled Reactors</li> <li>GPA: 3.94/4.0</li> </ul>		
MS	<ul> <li>University of Tennessee, Knoxville, N</li> <li>Empirical Modeling of Used Nuclear Fu</li> <li>GPA: 3.96/4.0</li> </ul>		Aug 2019 – Aug 2020 ns for Safeguards Purposes
BS	University of Tennessee, Knoxville, N • GPA: 3.91/4.0	uclear Engineering	Aug 2015 – May 2019
SELECT RESEARCH EXPERIENCE	University of Illinois at Urbana-Chan NEUP Fellow, Advanced Reactors and Fue Investigating impacts of the transition to H	l Cycles Group	Aug 2020 – Present s on the nuclear fuel cycle
	University of Tennessee, Knoxville, K Graduate Research Assistant, Coble Resea Developed multivariate models of used nucl	rch Lab	Aug 2019 – Aug 2020 conproliferation safeguards
	Oak Ridge National Laboratory, Oak NESLS Intern, Radiation Transport High I Investigated differences in doppler broaden	Ridge, TN Performance Computing Metho	May 2019– Aug 2019 ds and Applications Team
JOURNAL [1] A. M. Bachmann, R. Fairhurst-Agosta, Z. Richter, N. Ryan, and M. Munk. Enrichment dynamics for advanced reactor HALEU support. <i>EPJ Nuclear Sciences &amp; Technologies</i> , 7:22, 2021. Publisher: EDP Sciences. URL: https://www.epj-n.org/articles/epjn/abs/2021/01/epjn210024/epjn210024.html, doi:10.1051/epjn/2021021			Franchis Technologies, 7:22, 2021.
[2]	A. M. Bachmann, J. B. Coble, and S. I modeling techniques to characterize used Research Section A: Accelerators, Spectro Mar. 2021. URL: http://www.sciencedire j.nima.2020.164994	E. Skutnik. Comparison and unuclear fuel. Nuclear Instrumer ometers, Detectors and Associat	nts and Methods in Physics ed Equipment, 991:164994,
Refereed Conference	<ul> <li>A. M. Bachmann and K. D. Huff. Comparing HALEU Demand Among Advanced Reactor Fuel Cycle Transitions. In Proceedings of the 2021 ANS Virtual Annual Meeting, volume 124, pages 134–137, Virtual Meeting, June 2021. URL: https://www.ans.org/pubs/transactions/article-49551/</li> <li>A. M. Bachmann, J. B. Coble, and S. E. Skutnik. Elemental and Isotopic Concentration Tracking for Electrochemical Reprocessing Safeguards. In Proceedings of the 2018 Advances in Nuclear Nonproliferation Technology and Policy Conference, pages 121–124, Orlando, FL, Nov. 2018. URL: https://www.ans.org/pubs/proceedings/article-44678/</li> </ul>		
SELECT HONORS AND AWARDS	ANS Student Sections Commendations, AN U.S. WIN Region II Leadership Award, U. Girl Scout Gold Award, Girl Scouts of Am	NS Student Sections Committee S. WIN Region II	2020 2019 2015
SCIENTIFIC COMPUTING SKILLS	Languages Databases Test Frameworks Version Control Other Tools	ĿTEX, MatLab, Cyclus, MC	Python HDF5 nose git NP, ORIGAMI, ORIGEN
SELECT PROFESSIONAL SERVICE	Student Director, Board of Directors, A. DEI Co-Chair, Sponsorship Chair, 20: Twitter Lead, Communications Committe Member, Region II Conference Planning Member, American Nuclear Society Member, U.S. Women in Nuclear	22 ANS Student Conference ee, U.S. WIN	2021-Present 2021-Present 2018-Present 2018-2019 2016-Present 2015-Present