## Amanda M. Bachmann

CONTACT INFORMATION	NEUP Fellow, Graduate Research Assistant University of Illinois, Urbana-Champaign Nuclear, Plasma, and Radiological Enginee	e-mai	mobile: (813) 495-5698 l: 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, No.</li> <li>Empirical Modeling of Used Nuclear Fuel</li> <li>GPA: 3.96/4.0</li> </ul>		Aug 2019 – Aug 2020 ns for Safeguards Purposes
BS	University of Tennessee, Knoxville, No. • GPA: 3.91/4.0	uclear Engineering	Aug 2015 – May 2019
SELECT RESEARCH EXPERIENCE	University of Illinois at Urbana-Cham NEUP Fellow, Advanced Reactors and Fue. Investigating impacts of the transition to H.	l Cycles Group	Aug 2020 – Present
	University of Tennessee, Knoxville, Knoxvill	noxville, TN cch Lab	Aug 2019 – Aug 2020
	Oak Ridge National Laboratory, Oak NESLS Intern, Radiation Transport High F Investigated differences in doppler broadeni	Ridge, TN Performance Computing Method	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. EPJ Nuclear Sciences & Technologies, 7:22, 2021.  Publisher: EDP Sciences. URL: https://www.epj-n.org/articles/epjn/abs/2021/01/epjn210024/			Technologies, 7:22, 2021.
[2]	epjn210024.html, doi:10.1051/epjn/202  A. M. Bachmann, J. B. Coble, and S. F. modeling techniques to characterize used:  Research Section A: Accelerators, Spectro Mar. 2021. URL: http://www.sciencedirectj.nima.2020.164994	E. Skutnik. Comparison and unuclear fuel. Nuclear Instrument meters, Detectors and Associate	nts and Methods in Physics ed Equipment, 991:164994,
Refereed Conference	<ul> <li>A. M. Bachmann and K. D. Huff. Comparing HALEU Demand Aong 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:</li> </ul>		
	https://www.ans.org/pubs/proceedings/a	article-44678/	
SELECT HONORS AND AWARDS	ANS Student Sections Commendations, AN U.S. WIN Region II Leadership Award, U.S.		2020 $2019$
	Girl Scout Gold Award, Girl Scouts of Ame	~	2019
SCIENTIFIC COMPUTING SKILLS	Languages Databases Test Frameworks Version Control		Python HDF5 nose git
_	Other Tools	LATEX, MatLab, Cyclus, MC	
SELECT PROFESSIONAL SERVICE	Student Director, Board of Directors, AN DEI Co-Chair, 2022 ANS Student Confer Twitter Lead, Communications Committed Member, Region II Conference Planning Communications American Nuclear Society Member, U.S. Women in Nuclear	ee, U.S. WIN	2021-Present 2021-Present 2018-Present 2018-2019 2016-Present 2015-Present