Nathan S. Ryan

CONTACT INFORMATION	Graduate Research Assistant University of Illinois, Urbana-Champaign Nuclear, Plasma, and Radiological Engineering e-r	mobile: (708) 567-0002 nail: nsryan2@illinois.edu website: nsryan.github.io	
RESEARCH INTERESTS	Nuclear fuel cycle simulation and analysis, energy system modeling, and scientific computation.		
MS	University of Illinois Urbana-Champaign, Nuclear, Plasma, and Radiological Engineering Aug 2022 – est. May 2024		
BS	University of Illinois Urbana-Champaign, Engineering Physics	Aug 2019 – Aug 2022	
RESEARCH EXPERIENCE	University of Illinois at Urbana-Champaign, Urbana, IL Graduate Research Assistant, Nuclear Plasma and Radiological Engineeri Undergraduate Research Assistant Advanced Reactors and Fuel Cycles group.	ng Aug 2022 – Present May 2020 – Aug 2022	
HONORS AND	NPRE, Students Award for Excellence in Graduate Service	2023	
AWARDS	ANS, Student Sections Committee Commendation for Service and Leader NPRE, Students Award for Excellence in Undergraduate Service	ship 2023 2022	
	UIUC, Dean's List	2020	
	Department of Physics, Excellence in Physics Award	2020	
JOURNAL [1] PUBLICATIONS	A. M. Bachmann, R. Fairhurst-Agosta, Z. Richter, N. Ryan, and M. Mics for advanced reactor HALEU support. <i>EPJ Nuclear Sciences &</i> Publisher: EDP Sciences. URL: https://www.epj-n.org/articles/epjn/epjn210024.html, doi:10.1051/epjn/2021021	Technologies, 7:22, 2021.	
TECHNICAL [2] REPORTS	S. G. Dotson, A. M. Bachmann, Z. M. Richter, N. R. Panczyk, N. S. Rys. Fanning. Economic and Carbon Impacts of Potential Illinois Nuclear of Closures. Technical Report UIUC-ARFC-2021-02, University of Illino Urbana, IL, May 2021. URL: github.com/arfc/2021-04-nm-illinois	Plant Closures: The Cost	
Invited	Memphis Rise Academy, Careers in Nuclear Panel	May 31, 2023	
Talks	U. Tennessee, Knoxville, Navigating Conversations with Advisors, Managers, and Supervisors, <i>Panel</i> .	April 14, 2023	
	ANS U. Illinois, How to Present at a Conference, Invited Talk.	March 13, 2023	
	ANS U. Illinois, How to Create a Conference Abstract, <i>Invited Talk</i> . U. Illinois, Physics and Astronomy Convocation, <i>Student Remarks</i> .	Jan 23, 2023 May 15, 2022	
	Tinley Park High School, Introduction to Nuclear Science & Careers, TEDxYouth, Evolutionary Anthropology and Youth in Science, <i>Invited</i>	Seminar. Jan 17, 2020	
SCIENTIFIC	Computational Resource Access Network, Vitrual	Feb-April, 2023	
COMPUTING TEACHING	Intro to Python, Numerical Methods, Parallel Programming, and Best Proworldwide Youth in Science and Engineering, Vitrual Intro to Python, and Best Practices for Beginners	July 2022, 2023	
Scientific	Languages	bash, C++, Python	
COMPUTING SKILLS	Build Systems	make, CMake	
ZIIIIII	Databases Test Frameworks	$\begin{array}{c} \mathrm{SQL} \\ \mathrm{PyTest} \end{array}$	
	Version Control	git	

Sphinx, LATEX, Mathematics	opininx, i	ETHY.	mamemanc
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Other Tools

Professional Service	Vice Chair, Student Sections Committee, ANS Chair, Student Conference Finance Subcommittee, ANS Chair, Winter Meeting Student Program, ANS Organizer, Young Professionals Congress, ANS Public Relations Officer, U. Illinois ANS student section Coordinator, Engineering Outreach Bureau, Grainger Engineering Council Media Coordinator, 2022 ANS Student Conference	2023-present 2022-2023 2022 2022-2023 2020-2022 2020-2022 2019-2022
DEPARTMENTAL SERVICE	Committee Member, Diversity, Equity, and Inclusion Committee Committee Member, Graduate Student Advisory Committee Camp Advisor, Worldwide Youth in Science and Engineering	2022-present 2022 -present 2022 -present