## 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 Engineering Aug 2022 – Present Undergraduate Research Assistant May 2020 – Aug 2022 Advanced Reactors and Fuel Cycles group.		
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 <b>2023 2022</b>	
	UIUC, Dean's List	2020	
	Department of Physics, Excellence in Physics Award	2020	
JOURNAL [1] PUBLICATIONS	[1] A. M. Bachmann, R. Fairhurst-Agosta, Z. Richter, <b>N. Ryan</b> , 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		
TECHNICAL [2] REPORTS	S. G. Dotson, A. M. Bachmann, Z. M. Richter, N. R. Panczyk, <b>N. S. Ryan</b> , A. C. Balla, and E. R. Fanning. Economic and Carbon Impacts of Potential Illinois Nuclear Plant Closures: The Cost of Closures. Technical Report UIUC-ARFC-2021-02, University of Illinois at Urbana-Champaign, Urbana, IL, May 2021. URL: <a href="mailto:github.com/arfc/2021-04-nm-illinois">github.com/arfc/2021-04-nm-illinois</a>		
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	

## Other Tools

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