Nathan S. Ryan

CONTACT INFORMATION		mobile: (708) 567-0002 nail: nsryan2@illinois.edu website: nsryan.github.io	
RESEARCH INTERESTS MS	Nuclear fuel cycle simulation and analysis, energy system modeling, and so University of Illinois Urbana-Champaign, Nuclear, Plasma, An Neering Aug	-	
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 Engineerin Undergraduate Research Assistant Advanced Reactors and Fuel Cycles group.	ng Aug 2022 – Present May 2020 – Aug 2022	
Honors and Awards	NPRE, Students Award for Excellence in Graduate Service ANS, Student Sections Committee Commendation for Service and Leaders NPRE, Students Award for Excellence in Undergraduate Service UIUC, Dean's List Department of Physics, Excellence in Physics Award	hip 2023 2023 2022 2020 2020	
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 & 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, N. S. Ryan , 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: github.com/arfc/2021-04-nm-illinois		
INVITED TALKS	ANS, Social Media for Local and Student Section Members Webinar Panel Memphis Rise Academy, Careers in Nuclear Panel U. Tennessee, Knoxville, Navigating Conversations with Advisors, Managers, and Supervisors, Panel. ANS U. Illinois, How to Present at a Conference, Invited Talk. ANS U. Illinois, How to Create a Conference Abstract, Invited Talk. U. Illinois, Physics and Astronomy Convocation, Student Remarks. Tinley Park High School, Introduction to Nuclear Science & Careers, S. TEDxYouth, Evolutionary Anthropology and Youth in Science, Invited Science.	May 31, 2023 April 14, 2023 March 13, 2023 Jan 23, 2023 May 15, 2022 Seminar. Jan 17, 2020	
SCIENTIFIC COMPUTING TEACHING	Computational Resource Access Network, Vitrual Intro to Python, Numerical Methods, Parallel Programming, and Best Pra Worldwide Youth in Science and Engineering, Vitrual Intro to Python, and Best Practices for Beginners	Feb-April, 2023 actices July 2022, 2023	
SCIENTIFIC COMPUTING SKILLS	Languages Build Systems Databases Test Frameworks	bash, C++, Python make, CMake SQL PyTest	

	Version Control	git
	Other Tools	Sphinx, LATEX, Mathematica
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

2020 - 2022

2020 - 2022

2019 - 2022

DEPARTMENTAL	Committee Member, Diversity, Equity, and Inclusion Committee	${\bf 2022-} {\bf present}$
SERVICE	Committee Chair, Graduate Student Advisory Committee	2022 – 2023
	Camp Advisor, Worldwide Youth in Science and Engineering	${\bf 2022-} {\bf present}$

Coordinator, Engineering Outreach Bureau, Grainger Engineering Council

Public Relations Officer, U. Illinois ANS student section

 $\bf Media~Coordinator,~2022~ANS~Student~Conference$