## Nathan S. Ryan

CONTACT INFORMATION	Graduate Research Assistant mobile: (708) 567- University of Illinois, Urbana-Champaign e-mail: nathanryan.nuc@gmail. Nuclear, Plasma, and Radiological Engineering website: nsryan.githu	.com	
RESEARCH INTERESTS	Nuclear fuel cycle simulation and analysis, energy regulation, nuclear energy policy, and scientific computation.		
MS	University of Illinois Urbana-Champaign, Nuclear, Plasma, and Radiological Engineering  Aug 2022 – est. Dec 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 — pre Undergraduate Research Assistant May 2020 — Aug Advanced Reactors and Fuel Cycles group.		
Honors and	NPRE, Students Award for Excellence in Graduate Service	2023	
Awards	,	$2023 \\ 2022$	
	,	$\frac{2022}{2020}$	
	Department of Physics, Excellence in Physics Award	2020	
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/epjn210024.html, doi:10.1051/epjn/2021021			
TECHNICAL [2] REPORTS	[2] 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		
Poster [3] <b>N. Ryan</b> and N. Panczyk. Using an illinois energy model to demonstrate the potential impact of proactive nuclear activism. Poster presented at <i>American Nuclear Society Student Conference</i> , 2022. Champaign, IL			
Invited Talks	Institute for Genomic Biology, Setting Boundaries in Graduate School, Panel. Aug 24,		
TALKS	ANS, Social Media for Local and Student Section Members Webinar, Panel.  Aug 3, Memphis Rise Academy, Careers in Nuclear, Panel.  May 31,		
	U. Tennessee, Knoxville, Navigating Conversations with Advisors, April 14, Managers, and Supervisors, Panel.	2023	
	ANS U. Illinois, How to Present at a Conference, Invited Talk. March 13,		
	ANS U. Illinois, How to Create a Conference Abstract, Invited Talk.  U. Illinois, Physics and Astronomy Convocation, Student Remarks.  Jan 23,  May 15,		
	Tinley Park High School, Introduction to Nuclear Science & Careers, Seminar. Jan 17,	2020	
	TEDxYouth, Evolutionary Anthropology and Youth in Science, <i>Invited Speaker</i> . Feb 15,	2019	
SCIENTIFIC COMPUTING TEACHING	Computational Resource Access Network, Vitrual Introduction to Python, Numerical Methods, Parallel Programming, and Best Practices Worldwide Youth in Science and Engineering, Vitrual Introduction to Python, and Best Practices for Beginners  2022-pre July 2022,		

SCIENTIFIC COMPUTING SKILLS	Languages Build Systems Databases Test Frameworks Version Control Other Tools Sphin	bash, C++, Python make, CMake SQL PyTest git x, LATEX, Mathematica
Professional Service	Delegate, Nuclear Engineering Student Delegation Vice Chair, Student Sections Committee, ANS Subcommittee Chair, Student and Young Member Liaison 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, 2024 2023-present 2023-present 2022-2023 2022-2023 2020-2022 2020-2022 2019-2022
Departmental Service	Committee Member, Diversity, Equity, and Inclusion Committee Committee Chair, Graduate Student Advisory Committee Camp Advisor, Worldwide Youth in Science and Engineering	2022-present 2022-2023 2022-present