



Majdi I. Radaideh

Bio:

Prof. Majdi Radaideh (RAD) is a tenure-track Assistant Professor at the University of Michigan. Prof. RAD leads the AIMS lab (Artificial Intelligence and Multiphysics Simulations), which focuses on the intersection between nuclear reactor design, multiphysics modeling and simulation, advanced computational methods, and machine learning algorithms to drive advanced reactor research and improve the sustainability of the current reactor fleet. Prof. RAD has extensive skills in the development and usage of nuclear codes, programming experience, parallel computing, software engineering, and machine learning

algorithms. He completed his B.Sc. in nuclear engineering from the Jordan University of Science and Technology, M.S. and Ph.D. in nuclear engineering from the University of Illinois at Urbana Champaign with minors in computational science & engineering and applied statistics. After graduation, he held different R&D appointments at MIT and ORNL, where he completed his postdoctoral studies and collaborated with different national labs and industrial partners. Prof. RAD has collaborated on several DOE/NEUP/IRP projects [NE0008529, DE-NE0008573, DE-NE0008887, DE-SC0009915, 20-19912]. Also, he has received awards for his work including: 2018 Best Paper Award in the Best Estimate Plus Uncertainty Conference (BEPU-2018), 2019 ANS National Mark Mills Award for the best PhD thesis work in nuclear engineering, 2021 MIT Postdoctoral Outstanding Service Award, and several others. To date, Prof. RAD has authored 75+ research publications including 35+ journal publications, where he was the first/major author in 30+ journal papers.

Years Beyond PhD:

3.5 years

Research Area:

Nuclear Reactor Design, Machine Learning, Spent Fuel Disposal, Autonomous Control, Reactor Safety Analysis, Uncertainty Quantification, Optimization

School of Employment:

University of Michigan

Educational Background (Field of Degree):

Ph.D. University of Illinois Urbana-Champaign, Nuclear Engineering, 2019

M.S. University of Illinois Urbana-Champaign, Nuclear Engineering, 2016

B.Sc. Jordan University of Science and Technology, Nuclear Engineering, 2013