

Hunter Belanger



Bio: Dr. Hunter Belanger earned his B.S. in Physics, with a minor in Nuclear Engineering, from Rensselaer Polytechnic Institute (RPI) in 2018. After graduating with his M.S. in Physics from RPI in 2019, he moved to France to begin his Ph.D. at the Commissariat à l'énergie atomique et aux énergies alternatives (CEA) Paris-Saclay, in the Service d'Études des Réacteurs et de Mathématiques Appliquées. While at CEA, he worked on the development of Monte Carlo particle transport methods, considering problems related to spatially continuous material properties, vibrations of fuel rods in nuclear reactors, and high-performance computing. Hunter returned to RPI as an assistant professor in 2023. He is interested in a wide variety of reactor physics problems, such as Monte Carlo transient simulations, neutron clustering, neutron noise, and coupled multi-physics simulations. He is an active developer, working on open-source computational tools for nuclear engineering, reactor physics, and teaching.

Years Beyond PhD: 2

Research Area: Monte Carlo radiation transport, reactor physics, nuclear data

School of Employment: Rensselaer Polytechnic Institute

Educational Background (Field of Degree): Energie Nucléaire, Université Paris-Saclay