

Xu Wu



Bio: Dr. Hunter Belanger earned

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. Belanger 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: 6.5 years

Research Area: Uncertainty Quantification, Inverse Problems, Scientific Machine Learning

School of Employment: North Carolina State University, Department of Nuclear Engineering

Educational Background (Field of Degree):

- 2011, BS, Shanghai Jiao Tong University (Nuclear Engineering and Technology)
- 2013, MS, University of Illinois at Urbana-Champaign (Nuclear, Plasma and Radiological Engineering)
- 2017, PhD, University of Illinois at Urbana-Champaign (Nuclear, Plasma and Radiological Engineering)