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Andrea Jokisaari is a Computational Scientist in the Computational Mechanics and Materials Department of Idaho National Laboratory and is the Deputy Technical Director of the Nuclear Materials Discovery and Qualification initiative (NMDQi). Prior to joining INL in January 2018, she completed a two-year postdoc with a joint appointment between Northwestern University and Argonne National Laboratory and received her doctorate from the University of Michigan. Her research interests focus on applying theory and computation to understand the fundamental thermodynamic and kinetic driving forces influencing microstructural evolution at the mesoscale, particularly in extreme environments. Dr. Jokisaari focuses on collaborating closely with experimental scientists and on developing models that cross length scales, including up to engineering-scale reduced order models. She currently studying

the mechanisms and behaviors of irradiation damage and growth in metals, including irradiation growth in α -uranium and gas bubble superlattice development.