Ane Lasa Esquisabel

I am a research scientist in Nuclear Engineering at the University of Tennessee, Knoxville (US). Over the last decade, I have focused on developing integrated workflows to model plasma-surface interactions (PSI), with applications to surface erosion, fuel retention, and material degradation in fusion devices such as WEST, DIII-D, ITER, and ARC. This work has led to over 35 peer-reviewed publications, including several first-authored papers (NF 2024, JNM 2024, MRX 2024, NF 2021, P. Scr 2020), and invited talks at major conferences (HPC Fusion 2024, ICFRM 2023, TMS 2022, IAEA 2021, PSI 2020). I currently lead the PMI group in the DIII-D wall change Task Force, and serve on the Fusion Energy Science Advisory Committee, the Board of Editors of Nuclear Fusion, and the Sherwood Conference Executive Committee. I hold a Master's in Physics from the University of the Basque Country (Spain) and a Ph.D. in atomistic modeling of PSI from the University of Helsinki (FI). Before joining UTK, I was a postdoctoral researcher at Oak Ridge National Laboratory studying impurity transport in tokamaks.