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Guoxiang (Emma) Hu is an Assistant Professor in the School of Materials Science and Engineering at the Georgia Institute of Technology in Atlanta, USA. She obtained her Ph.D. in Physical Chemistry in 2018 from the University of California, Riverside, and was a postdoctoral scholar in the Center for Nanophase Materials Sciences at Oak Ridge National Laboratory, USA.

Her research focuses on using quantum mechanical (QM) modeling and machine learning (ML) to study functional materials for energy-related applications including light harvesting and neuromorphic computing. Emma's group also develops and applies advanced computational methods integrating ML with QM modeling at different levels of theory for accurate and efficient modeling of complex interfaces and quantum materials.