Mr. Yao Wang is a Ph.D. student in the Department of Civil, Environmental, and Ocean Engineering at Stevens Institute of Technology, advised by Professor Yi Bao. His research focuses on structural health monitoring using advanced acoustic sensing technologies, including Distributed Acoustic Sensing, Acoustic Emission, and Guided Wave. He integrates experiments, multi-physics finite element modeling, and machine learning to investigate wave propagation, signal processing, and sensing configuration optimization for damage detection in civil infrastructure.