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Cellular Metabolism Modeling Using Fluorescence Lifetime Imaging Microscopy

Jing Li is a postdoctoral researcher at IBT, Texas A&M University Health Science Center. He received a Ph.D. in Biomedical Engineering from Purdue University before starting the position at IBT. His previous work resulted in several publications including topics in single cell discrete, mechano-dynamic models that focused on intracellular cytoskeletal dynamics during cell morphogenesis. The modeling components include cytoskeletal proteins such as actin filaments and microtubules. He has been proactively pursuing research with the goal of developing multiscale model for single and collective cell dynamics, which also requires integrative data analysis across various spatiotemporal scales. He is currently committed to single cell spatial transcriptomics study which involves the development of an innovative mapping technique to understand patterning of cardiac progenitor cells during early embryonic stages in mice. He has started serving as a steering committee member at the Gulf Coast Consortia (GCC), for the GCC Single Cell Omics Scholars Program.