

Short Bio

Dr. Shada Hofemeier Abuhattum earned her Bachelor's and Master's degrees in Biomedical Engineering from the Technion – Israel Institute of Technology, and a Master's degree in Patent Law at Haifa University, Israel. She later moved to Germany to pursue a Ph.D. in Physics at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), where her research focused on evaluating the viscoelastic properties of biological matter. Her work involved developing novel mathematical and numerical models applicable to various methodologies, including Atomic Force Microscopy (AFM). Following her Ph.D., she transitioned into the field of deformability cytometry, focusing on integrating deep learning and automation to enhance the accuracy and depth of large-scale measurements and datasets. In addition to her research, she co-founded Rivercyte GmbH, a company dedicated to translating deformability cytometry into clinical applications. Her work aims to advance mechanical phenotyping as a tool for both fundamental research and medical diagnostics.