Ellen Kuhl is a Professor of Mechanical Engineering at Stanford University. She received her PhD from the University of Stuttgart in 2000 and her Habilitation from the University of Kaiserslautern in 2004. Her area of expertise is Living Matter Physics, the design of theoretical and computational models to predict the acute and chronic behavior of living systems. Ellen has published more than 200 peer-reviewed journal articles and edited two books; she is an active reviewer for more than 20 journals at the interface of engineering and medicine, and an editorial board member of seven international journals. Ellen is currently the Chair of the US National Committee on Biomechanics, an Executive Member of the US Association for Computational Mechanics, and the Chair of the Biomechanical Engineering Group at Stanford. She is a Fellow of the American Institute for Mechanical and Biological Engineering and a founding member of the Living Heart Project, a translational research initiative to revolutionize cardiovascular science through realistic simulation. Ellen received the National Science Foundation Career Award in 2010, was selected as Midwest Mechanics Seminar Speaker in 2014, and received the Humboldt Research Award in 2016.