Engineering Meets Complexity:
A Brief Tour through Interdisciplinary Modeling

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The Talk: In this talk, Dr. Ruf will provide an overview of his work in applying modeling tools from control theory and machine learning to interdisciplinary problems in social network behavior, sustainability, and neuroscience. More specifically, he will present models that capture how opinions affect product spread and sustainable resource consumption as well as research on the dynamics of the brain. He will offer perspective on how these examples fit into the history of modeling and the modern era of big data.

The Speaker: Dr. Sebastian F. Ruf is a complex systems researcher. He is currently an Experiential AI Postdoctoral Fellow at Northeastern University, where his work leverages tools from dynamical systems theory, network science, and machine learning to tackle pressing real world problems. He has a PhD in Electrical and Computer Engineering from Georgia Institute of Technology and a M.S. and B.S. in Mechanical Engineering from U.C. Berkeley (CA-A). In his spare time, he does Tai Chi and improv theater.

Register at: https://tbp-org.zoom.us/meeting/register/tJ0qceuhqTgiG9e51qzHW2WR45Tn46gG9MwT