

Democratizing Large-Scale Data and Machine Learning in Materials Research

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Brown Hall, 4:00 – 5:00 pm (Room TBD, revised flier will circulate)



Abstract

Over the first five years of the Materials Genome Initiative (MGI), the materials community has gained new appreciation for the enormous potential of data-intensive research. However, two key challenges stand in the way of ubiquitous application of technologies such as machine learning in materials: (1) universal access to essential datasets and software infrastructure; and (2) education in data science for materials scientists. In this talk, I will describe the work Citrine is doing to address each of these challenges, and thereby democratize data-driven materials research.

Bio

Dr. Meredig's research interest is the application of machine learning to materials science. He earned his Ph.D. in Materials Science from Northwestern University, where he focused on materials informatics, and his BAS and MBA at Stanford University, where he is also on the faculty of the Department of Materials Science and Engineering. He is the author of over 20 peer-reviewed publications and regularly gives invited talks at materials conferences including MRS, TMS, and MS&T, as well as plenaries and keynotes at workshops focused on data-driven materials research. Dr. Meredig was an Arjay Miller Scholar and Terman Fellow at Stanford and a Presidential Fellow and NDSEG Fellow at Northwestern.