

# MINDS ON MATH



## THE MATHEMATICS OF INTELLIGENCE: NATURAL AND ARTIFICIAL

**THURSDAY, MARCH 5, 2020  
AT 6:30 PM**

Artificial intelligence has brought many useful technologies, but true machine intelligence remains far off. Nothing besides the human mind has the flexible, general-purpose common sense that we use, from very early in development, to do everything we do. How could we capture human intelligence in engineering terms, and what are the prospects for someday building machines that are smart like us?

Join Dr. Joshua B. Tenenbaum, Professor of Computational Cognitive Science at the Massachusetts Institute of Technology and 2019 MacArthur Fellow, to explore the mathematics of minds, both natural and artificial. He will talk about recent results and insights that come from building models of core human common sense to explain and understand what we see, to imagine things we could see but haven't yet, to solve problems and plan actions, and to build new models as we learn more about the world. He will introduce state-of-the-art mathematical concepts from probability, programming, and simulation in ways all of us can understand, and he will show practical examples of how these tools let us predict and explain our own minds' workings and ultimately let us build AI systems that come closer to human-like intelligence.

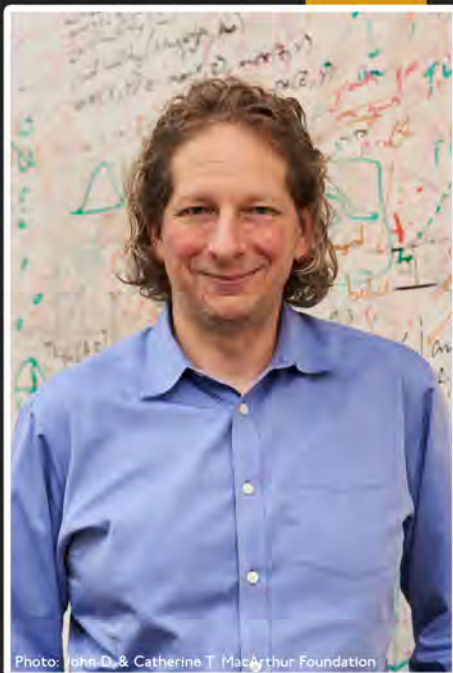


Photo: John D. & Catherine T. MacArthur Foundation

**DR. JOSHUA B. TENENBAUM**  
Professor of Cognitive Science and Computation  
at the Massachusetts Institute of Technology

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REGISTRATION REQUIRED**



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