



Speaker: Johanna Franklin
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Tuesday, March 20, 2018

2:00 PM

125 Hayes-Healy Hall

Title: Metric spaces and lowness

Abstract:

The concept of lowness was introduced into computability theory in the 1970s in the context of the Turing degrees. Since then, it has been extended to other contexts such as learning theory, algorithmic randomness, and computable structure theory. I will briefly discuss frameworks for formalizing analysis using computability theory and then present some recent results on lowness for different kinds of computable metric spaces. This work is joint with Timothy McNicholl.