



FRIDAY, OCT. 6

SUDEEP BHATIA

University of Pennsylvania

“Knowledge Representation in Decision Making”

I discuss how insights from machine learning and data science can be used to build models of judgment and decision making with human-like knowledge representations. In addition to specifying the psychological mechanisms people use to form beliefs and preferences, these models also represent the information on which these psychological mechanisms operate. Subsequently, they are able to deliberate over and respond to a large variety of naturalistic decision problems, and moreover, mimic human responses to these problems. These models shed light on the processes at play in everyday decision making, and illustrate a novel approach to predicting real-world behavior.

BIO

I study the cognitive basis of preferential choice. I am particularly interested in understanding how people learn, represent, retrieve and aggregate information about the choice alternatives available to them, and how this information affects their final decisions. I also study intuitive judgment, again with a focus on understanding the mechanisms involved in representing and aggregating relevant information in these types of judgments. My work uses mathematical and computational cognitive models, and tests the predictions of these models with behavioral experiments.

I received my PhD in Behavioral Decision Research from Carnegie Mellon University in 2014. From 2014 to 2015, I was a Research Fellow in Behavioral Science at the University of Warwick.

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THINK IN THE NEXT

BEHAVIORAL
DECISION MAKING
COLLOQUIUM

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12:15 PM – 1:30 PM
Cornell Hall, Room D-310