**Title:** Research Methods and Design

**Abstract:** Researchers in psychology use a range of experimental methods to decipher how and why people behave in particular ways. The scientific method used in the field of psychology applies to research conducted across all disciplines of science. In this talk, I will discuss the steps to conduct empirical research -- how to formulate a hypothesis from a general research question, design an experiment, and analyze results. The focus will be on experimental methods and ethical guidelines for conducing research with human subjects. I will use prior and current research studies that I have conducted (e.g., communication cues in collaborative music-making; production and perception of deceptive speech) as case examples.

**Bio:** Professor Michelle Levine joined the Department of Psychology at Barnard College in 2010. She received a Sc.B. in Psychology and Computer Science, an M.S.W in Advanced Clinical Practice and a Ph.D. in Psychology. As a graduate student, she worked in various clinical psychology settings and also worked at AT&T Laboratories in the IP & Voice Services and Human Factors Departments. Her current research focuses on linguistic and nonlinguistic aspects of communication in human-human and human-computer interaction. Her work draws upon theories and methodologies from cognitive psychology, linguistics and computer science.