

The Evolution of Psychological Categories:

How do individuals learn language and semantic systems? What features of language categories are shared by communicating individuals? How do language and meaning evolve over time in human and artificial individuals, and in groups? These are some of the questions that this IMBS workshop will address through presentations and discussion on topics of learning; language evolution; semantic cognition; and how individuals and groups construe meaning. The meeting will be multidisciplinary, bringing together experts from the diverse areas of Psychology and Cognitive Science, Mathematical Behavioral Science, Logic and Philosophy of Science, Computer Science & Statistics, Evolutionary Dynamics, and Mathematics. During this meeting we will focus on the formalization of these listed topics, using approaches from neural and artificial systems modeling, Bayesian modeling, computational and statistical psychology, mathematics and evolutionary game theory. Expect the presentations to range from the empirical to the theoretical and mathematical.