Theories of Learning
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This course provides a tour of foundational topics in learning from a theoretical perspective. It covers a diversity of learning processes, aiming for breadth over depth (although it inevitably neglects several important forms of learning). Each meeting will consist of student-led presentations of two papers. Experience with computational modeling is not required. The course is aimed at graduate students and advanced undergraduates.

Meeting 1: Foundational concepts

Meeting 2: Classical conditioning

Meeting 3: Attention in associative learning

Meeting 4: Reinforcement learning

Meeting 5: Skill acquisition

Meeting 6: Category learning

**Meeting 7: Rule-based concept learning**

**Meeting 8: Causal induction**

**Meeting 9: Active learning**

**Meeting 10: Social learning**

**Meeting 11: Generalization**

**Meeting 12: Language acquisition**

**Meeting 13: Inductive constraints**

**Meeting 14: Interactions between development and learning**

**Meeting 15: Interactions between evolution and learning**

**Meeting 16: Structure discovery**

**Meeting 17: Neurobiology of learning**