

Speaker: Anima Anandkumar, Bren Professor of Computing and Mathematical Sciences

Title: Bridging the gap between artificial and human intelligence

Abstract: We have achieved impressive progress with AI frameworks. Yet, we are far from achieving human-level performance in terms of generalizability across domains. I will identify key ingredients needed to close this gap and draw inspiration from biological mechanisms in our brains to design such generalizable AI. Our intelligence is compositional, conscious, and can reason about causality. I will describe our recent research to build such capabilities in AI algorithms. This includes the construction of benchmarks to carefully test compositional capabilities of AI and building conscious AI with feedback mechanisms, inspired by perception mechanisms in our brains.