Department of Economics – Neuroeconomics Seminar

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Modulation of transdiagnostic decision processes

A number of decision-making traits have been identified that appear to be altered across a range of psychiatric disorders. These include the propensity to prefer immediate over delayed rewards (temporal discounting) and the use of model-based strategies during reinforcement learning. In my talk I will first highlight how we study these processes using the framework of sequential sampling models. Then I will show recent work investigating the degree to which these processes can be modulated via catecholamine precursor supplementation. Next, I will highlight the relevance of these traits to gambling disorder, and show that gambling-related environments differentially impact temporal discounting and model-based control, which could contribute to the maintenance of maladaptive behavior.