COURSE DETAIL

NEUROSCIENCE OF DECISION MAKING 4H
Country United Kingdom - Scotland
Host Institution University of Glasgow
Program(s) University of Glasgow
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Psychology
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title NEUROSCIENCE OF DECISION MAKING 4H
UCEAP Transcript Title NEUROSCI/DECISION
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

This course provides an introduction to the neuroscience of decision making, in particular the neural principles underlying perceptual as well as reward- and value-based decisions. Perceptual decisions involve choices based on ambiguous sensory evidence whereas reward- and value-based decisions hinge largely on probabilistic evidence and subjective preferences associated with potential choices. In addition, the role of training in perceptual decision making and the influence of reinforcement-learning in reward-based choices are discussed in the context of optimizing decision-related processing. Important methodological considerations on how the relevant neural data are collected and analyzed, including some computational modelling work, are also explored. The course draws mostly on recent research reports from both the human and non-human primate literature to illustrate the brain networks and the fundamental principles underlying decision-related processing and their relevance to interpreting neurophysiological and neuroimaging experiments and to understanding brain function in health and disease.

Language(s) of Instruction
English

Host Institution Course Number
PSYCH4064

Host Institution Course Title
NEUROSCIENCE OF DECISION MAKING 4H

Host Institution Campus

Host Institution Faculty
School of Psychology and Neuroscience

Host Institution Degree

Host Institution Department

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