

PS918-15 Psychological Models of Choice

26/27

Department

Psychology

Level

Taught Postgraduate Level

Module leader

Emmanouil Konstantinidis

Credit value

15

Module duration

9 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

The main aim of this module Psychological Models of Choice is to review theories of individual choice. Core empirical results in the decision-making literature will be reviewed and their theoretical implications explored.

[Module web page](#)

Module aims

The module will cover the major theories of choice, with emphasis upon choices involving risk and time. Secondary aims include developing criticisms of methodologies, the ability to implement mathematical models of decision making, and appreciation of the strengths and weaknesses of different theoretical approaches.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Introduction to cognitive modelling
Psychological Models of Risky Choice
Evidence Accumulation models
Heuristics
Information Biases
Emotions and arousal
Big Data & Choice models
Decision by sampling

Learning outcomes

By the end of the module, students should be able to:

- 1. Read, understand, and critically evaluate academic articles that report models of choice
- 2. Describe and discuss the strengths and weaknesses of the most important models of individual choice
- 3. Implement a mathematical model of individual choice; understand and analyse the relation between theory and data
- 4. Describe and evaluate the appropriateness of key experimental methods for testing models of decision making
- 5. Understand the theoretical importance of core, critical empirical results in decision making

Indicative reading list

[Reading lists can be found in Talis](#)

Subject specific skills

- Understanding & evaluation of models of individual choice
- Analysis of relationships between theory and data
- Development of criticisms of methodologies
- Implementation of mathematical models of decision making

Transferable skills

- Critical evaluation of academic articles
 - Discussion of the strengths and weaknesses of models
 - Evaluation of the appropriateness of experimental methods
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Study

Study time

Type	Required
Lectures	9 sessions of 2 hours (12%)
Practical classes	5 sessions of 2 hours (7%)
Private study	122 hours (81%)
Total	150 hours

Private study description

122 hours private guided study, including completion of assessments

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A5

	Weighting	Study time	Eligible for self-certification
Assessment component			
Test 1	15%		No

Reassessment component is the same

Assessment component

Modelling Assignment	55%	Yes (extension)
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2500-word written reports for modelling assignments, where students learn to (i) program a computational model of choice and (ii) apply the model to data.

Reassessment component is the same

Assessment component

Test 2	15%	No
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	Weighting	Study time	Eligible for self-certification
Reassessment component is the same			
Assessment component			
Test 3	15%		No
Reassessment component is the same			

Feedback on assessment

The class tests will be reviewed in class with detailed feedback provided about the correct answers and discussion of the some of the common errors. Individual one-on-one feedback will also be provided upon request.

Written feedback will be provided on the writing assignment and on the written report for the modelling assignment.

Availability

Courses

This module is Core for:

- Year 1 of TPSS-C8P7 Postgraduate Taught Behavioural and Economic Science (Science Track)

This module is Core optional for:

- Year 1 of TPSS-C803 Postgraduate Taught Behavioural and Data Science
- Year 1 of TPSS-C8P7 Postgraduate Taught Behavioural and Economic Science (Science Track)

This module is Optional for:

- Year 1 of TIMA-L981 Postgraduate Social Science Research
- Year 1 of TPSS-C8P7 Postgraduate Taught Behavioural and Economic Science (Science Track)
- Year 1 of TECS-C8P8 Postgraduate Taught Behavioural and Economics Science (Economics Track)
- Year 1 of TMAA-G1PF Postgraduate Taught Mathematics of Systems
- Year 1 of TPSS-C8P9 Postgraduate Taught Psychological Research

This module is Option list A for:

- Year 1 of RMAA-G1PG Postgraduate Research Mathematics of Systems