

# PS901-10 Computational Modelling

**20/21**

**Department**

Psychology

**Level**

Taught Postgraduate Level

**Module leader**

James Adelman

**Credit value**

10

**Module duration**

10 weeks

**Assessment**

100% coursework

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

This module will cover computational modelling tools used in Psychology.

### Module aims

To introduce students to the practice of computational modelling in Psychology.

### 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.

Purpose of computational modelling; tools for computational modelling; describing computational models; assessing and comparing computational models; reporting results of computational modelling; detailed specific examples of computational models, drawn (on a non-fixed basis) from language, memory, perception, attention, categorization etc., to illustrate critical points in the above.

### Learning outcomes

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

- Understand the purpose of computational modelling in Psychology.
- Be able to simulate, assess, and report (some) computational models in Psychology.

## Indicative reading list

TBC

## Subject specific skills

Understanding of a range of computational modelling tools and the way these are used in Psychology.

## Transferable skills

Effective communication of results

Computational skills

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## Study

### Study time

Type	Required
Lectures	10 sessions of 1 hour (10%)
Practical classes	20 sessions of 1 hour (20%)
Private study	70 hours (70%)
Total	100 hours

### Private study description

private study and preparation for assessment

### Costs

No further costs have been identified for this module.

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## Assessment

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

## Assessment group A4

	Weighting	Study time	Eligible for self-certification
Assessment component			
Worksheet 1	50%		Yes (extension)
Reassessment component is the same			

Assessment component			
Worksheet 2	50%		Yes (extension)
Reassessment component is the same			

## Feedback on assessment

Annotated scripts.

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## Availability

### Pre-requisites

It is expected that students will have undertaken PS923 or have an understanding of the R programming language.

## Courses

This module is Optional for:

- Year 1 of TIMA-L981 Postgraduate Social Science Research