

# PS901-15 Computational Modelling

**21/22**

**Department**

Psychology

**Level**

Taught Postgraduate Level

**Module leader**

James Adelman

**Credit value**

15

**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          | (0%)                        |
| Practical classes | 20 sessions of 1 hour (44%) |
| Private study     | 25 hours (56%)              |
| Total             | 45 hours                    |

### Private study description

material review and formative work

### 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.

Students can register for this module without taking any assessment.

### Assessment group A4

|             | <b>Weighting</b> | <b>Study time</b> |
|-------------|------------------|-------------------|
| Worksheet 1 | 33%              |                   |
| Worksheet 2 | 33%              |                   |
| Worksheet 3 | 34%              |                   |

## **Feedback on assessment**

Annotated scripts.

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## **Availability**

### **Pre-requisites**

It is expected that students will have undertaken PS923 in Term 1 to take PS901 in term 2, or have an understanding of the R programming language.

## **Courses**

This module is Optional for:

- TPSS-C8P9 Postgraduate Taught Psychological Research
  - Year 1 of C8P9 Psychological Research
  - Year 1 of C8P9 Psychological Research