

PS382-15 Large Language Data

26/27

Department

Psychology

Level

Undergraduate Level 3

Module leader

Suzanne Aussems

Credit value

15

Module duration

11 weeks

Assessment

60% coursework, 40% exam

Study location

University of Warwick main campus, Coventry

Description

Introductory description

Psychologists are increasingly using large text and speech datasets to investigate the human mind. This trend raises two key questions: How can we effectively analyse such vast language data? And what unique insights can large language data offer into cognitive processes and human behaviour?

Module aims

This module equips psychology students with fundamental data science skills, enabling them to analyse and interpret large language datasets to gain deeper insights into cognitive processes and human behaviour. By incorporating programming—a highly sought-after skill in many jobs—this module enhances students' employability in research, industry, and data-driven roles.

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.

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The following are some recurring topics across the themed sessions: Best practices and ethical issues in analysing/collecting large data; Basic Programming; Corpus Analysis; Data Visualisation; Text Mining; Sentiment Analysis; Network Analysis.

Learning outcomes

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

- Critically evaluate quantitative psychological research that uses large language datasets.
- Organise, process, visualise, and analyse large language datasets.
- Communicate, report, and interpret large language data science findings accurately and concisely.

Indicative reading list

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

Research element

Seminars will provide students with opportunities to practise new data science skills and attend data clinics for support with their reports and presentations.

Interdisciplinary

This module is inherently interdisciplinary, integrating psychology, data science, and computational linguistics to explore both psychological and linguistic phenomena.

Subject specific skills

Students will develop subject-specific skills in data management, programming, data visualisation, and quantitative analysis. These skills will enable them to analyse large datasets, critically evaluate data-driven research, and apply data science techniques to psychological research.

Transferable skills

Students will develop transferable skills in critical evaluation, data analysis, and communication. These skills will enable them to critically assess data-driven research, analyse and interpret large datasets, and report findings accurately and concisely.

Study

Study time

Type	Required
Lectures	11 sessions of 2 hours (15%)
Seminars	10 sessions of 1 hour (7%)
Private study	43 hours (29%)
Assessment	75 hours (50%)
Total	150 hours

Private study description

Students should engage with the reading materials of the module and are encouraged to locate related reading materials online or in the library and engage with them as part of private and independent learning.

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 D1

	Weighting	Study time	Eligible for self-certification
Assessment component			
Written report	60%	45 hours	Yes (extension)
In the written report, students will demonstrate their proficiency in conducting analyses on large language data. As part of the assessment, students are expected to document reproducible code.			

Reassessment component is the same

Assessment component			
Centrally-timetabled examination	40%	30 hours	No
The exam will consist of a variety of question types, such as multiple-choice questions, short-answer questions, and fill-in-the-blank questions.			

Weighting

Study time

Eligible for self-certification

~Platforms - AEP,Moodle,WAS

- Online examination: No Answerbook required

Reassessment component is the same

Feedback on assessment

Individual feedback in feedback form on written report.

General feedback on MCQ exam.

Grades on the report and exam will be provided in line with Department of Psychology procedure.

[Past exam papers for PS382](#)

Availability

Pre-requisites

To take this module, you must have passed:

- All of
 - [PS210-15 Language and Cognition](#)

Courses

This module is Optional for:

- Year 3 of UPHA-VL78 BA in Philosophy with Psychology
- UPSA-C800 Undergraduate Psychology
 - Year 3 of C800 Psychology
 - Year 3 of C800 Psychology
 - Year 3 of C800 Psychology
- Year 4 of UPSA-C801 Undergraduate Psychology (with Intercalated year)
- Year 3 of UIPA-C8L8 Undergraduate Psychology and Global Sustainable Development
- Year 3 of UPSA-C804 Undergraduate Psychology with Education Studies
- UPSA-C802 Undergraduate Psychology with Linguistics
 - Year 3 of C802 Psychology with Linguistics
 - Year 3 of C802 Psychology with Linguistics