

## Why study a Continuing Professional Development Programme with the TCD School of Social Science & Philosophy?

This suite of CPD programmes will enable professionals to enhance their skills in Data Science and trains participants in the fundamental knowledge and skills of social data analysis. These modules have been co-created with key industry partners to address the scarcity of training in data science in Ireland. Some of the benefits of the modules include:

- Learn in the environment of Ireland's top university
- Courses taught by leading Trinity academics
- Earn a Certificate of Completion in the selected CPD programme
- Access to Trinity's Virtual Learning Environment – Blackboard
- Short courses with flexible modes of delivery
- Small class sizes

### Who is this course for?

Working professionals from the private and not-for-profit sectors. Managers; HR professionals; product developers; market researchers; service providers; marketers / brand managers and compliance officers from the financial, insurance, legal, IT and consumer products / services industries.



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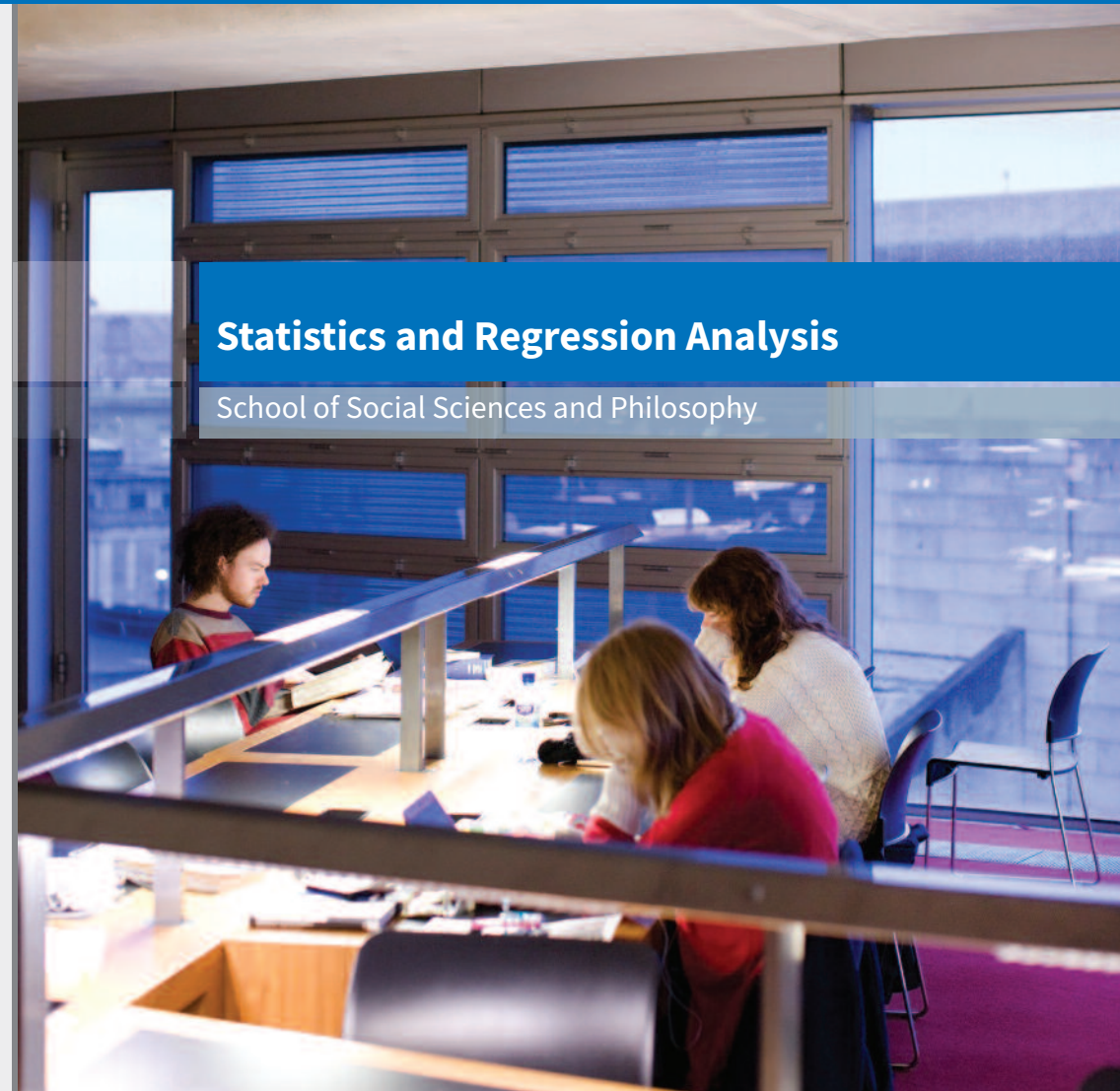
Human  
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#### Contact

#### School of Social Sciences and Philosophy

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## Statistics and Regression Analysis

School of Social Sciences and Philosophy



## Statistics and Regression Analysis

The CPD in Statistics and Regression Analysis will provide participants with an understanding of key statistical and econometric methods used to analyse social data and how to implement them using the statistical software package R. The CPD overviews key statistical concepts necessary to analyse social data, introduces participants to regression analysis and demonstrates the use of these methods with practical applications.



On successful completion of the CPD, participants will be able to:

- Explain and apply statistical terminology to the analysis of social data;
- Formulate questions in the language and abstractions of statistics;
- Solve simple problems related to the topics in the CPD;
- Conduct their own basic statistical analysis using R.

## What topics will you cover?

The first part of Statistics and Regression Analysis reviews key statistical concepts necessary to analyse social data, such as graphical and numerical data description; probability theory; discrete and continuous random variables; sampling; confidence intervals; hypothesis testing.

The second part of the CPD introduces participants to basic multiple regression analysis, modelling of non-linear relationships, and dummy variables.

The CPD has an applied focus, demonstrating the use of these methods with practical applications using real world datasets and using the statistical software package R.

## How is the course delivered?

The CPD will be delivered online over 6 weeks. There will be one synchronous 1-hour class for the first 5 weeks. There will also be 3 hours of asynchronous material for the first 5 weeks:

- 1.5-hour long videos-based lecture
- 5-hour long R tutorial
- 1-hour long self-study time

There will be a take-home assignment for the last week. In order to be awarded the Certificate of Completion in Statistics and Regression Analysis, participants will need to have completed all required CPD exercises.

## Cost

The CPD fee is €1,500.

Register at [www.tcd.ie/ssp/CPD](http://www.tcd.ie/ssp/CPD)