Join Radboud Summer School 2019!

Introduction to Data Science with R for the Social Sciences

change perspective

Radboud University
Introduction to Data Science with R for the Social Sciences

Whether you are a social scientist, a business analyst or a data journalist, analysing data is key to greater understanding of the world around us. Whether it’s understanding political discussions online, the diffusion of news events, or the predictive power of certain indicators, systematic analysis improves business conduct, news analysis and reporting and understanding of human behaviour in general. To be able to understand quantitative data we need tools of high quality and, if possible, for free. R and R studio are free and multiplatform software applications for descriptive analysis, predictive, and causal analysis, and are increasingly adopted software tools for Data Science in academics, and business. R also provides numerous tools for publication ready visualization and publication of research results. As such, R and Rstudio are very versatile.

This course will be a hands-on experience in which you will actively work with R and Rstudio while completing assignments.

Topics that will be discussed are:
• Reading and cleaning data
• Descriptive analysis (central tendency measures, correlations) and visualization
• Multivariate analysis and scale construction (factor analysis, component analysis, correspondence analysis, Mokken analysis)
• Regression analysis (choosing the right model, testing for model assumptions)
• Network analysis (network indicators, visualisation)

After this course you are able to
• Distinguish between different types of quantitative data
• Understand the different types of research questions
• Choose the right analytical tool, given a specific research question
• Analyse the data with R, to generate answers to research questions
• Clearly communicate the findings in tabular or visual form

Number of EC
2 ECTS credits

Course leader
Maurice Vergeer, Assistant Professor, Communication Science, Radboud University
Admission documents
Motivation letter and CV

Entry level
Advanced Bachelor, Master, PhD, Postdoc and Professional

This course is designed for
Students and professionals with basic knowledge of methods and statistics. Journalists, interested in data journalism and data science and business professionals who want to be able to go further than the descriptive business analytics dashboards.

You can find more details about this course on our website

Course date
Monday 8 July - Friday 12 July 2019

Course fee
€ 550

Deadline application
1 May 2019

Discounts
• 10% discount for early bird applicants. The early bird deadline is 1 March 2019.
• 15% discount for students and PhD candidates from partner universities. Please note that these discounts can be combined if you apply before 1 March 2019.

Apply now!
What is the RSS experience?

RSS is more than just a course!

Radboud Summer School offers you a unique opportunity to meet other students and researchers from all over the world with different cultural and academic backgrounds. You will also get to know Radboud University and the city of Nijmegen. Our social programme includes a welcome reception, guest lecture and farewell drinks. And for a small fee you can join our BBQ, River Cruise on a pancake boat, a Pub Quiz, Sports Activities or a City Game.

Want to know more?
Have a look at what participants have said about their experience on our website!

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www.ru.nl/radboudsummerschool