

# Introduction to R for criminologists

European Society of Criminology pre-conference workshop

Workshop hosted by the **Space Place and Crime** working group

**Organisers:** Christophe Vandeviver, Wouter Steenbeek, Samuel Langton, Matthew Ashby, Monsuru Adepeju.

**Time:** 18 September 2019 from 9am to 3pm.

**Location:** Ghent University, Campus Aula, Faculty of Law and Criminology, PC Lab – Paddenhoek 3, 9000 Gent (2<sup>nd</sup> floor). <https://goo.gl/maps/n3CzHx3UPvj>

**Fee:** This event is free but registration is mandatory.

**Registration:** <https://www.eventbrite.com/e/introduction-to-r-for-criminologists-esc-conference-workshop-tickets-60391593883>

**Audience:** All registered attendees to the ESC conference are welcome to attend the morning session from 9.30am to 12pm. The afternoon session from 1pm is aimed at members of the Space Place and Crime working group. If you are a member of the ESC and interested in joining the Space Place and Crime working group, please email Monsuru Adepeju (m.adepeju@mmu.ac.uk).

**Requirements:** No experience in R is required to attend the workshop. Attendees need to bring their own laptop, with the latest versions of R and RStudio already installed. Please ensure that you have access to the university Wi-Fi network. Attendees are welcome to bring their own crime data, although example data will be provided to carry out exercises.

## Provisional agenda:

### 09.30-11.00

- What is R? What are the key differences to other software?
- Introduction to the interface: knowing your way around RStudio.
- How to import and handle data using base R.
- Data visualisation using base R.

### 11.00-11.15 Coffee break

### 11.15-12.00

- Introducing the *tidyverse* as an extension to base R.
- Data importing, handling and visualisation using *readr*, *dplyr* and *ggplot2*.

### 12.00-13.00 Lunch

### 13.00-15.00

- How to import and handle spatial data using *sf*.
- Visualising spatial data using *ggplot2*.

## Recommended reading:

Brunsdon, C., & Comber, L. (2015). *An introduction to R for spatial analysis and mapping*. Sage.

Lovelace, R., Nowosad, J., & Muenchow, J. (2019). *Geocomputation with R*. CRC Press.

Wickham, H., & Grolemund, G. (2016). *R for data science: import, tidy, transform, visualize, and model data.* " O'Reilly Media, Inc."