

INTRO TO RSTUDIO AND R MARKDOWN

For open data and
reproducibility



University of
Zurich ^{UZH}

English Department



INSTRUCTOR

Mason A. Wirtz
University of Salzburg

DATE

Friday–Saturday
25th – 26th NOVEMBER 2022

TIME

Fri 13:00–17:00
Sat 09:00–17:00

PLACE

University of Zurich
Room Friday: KOL-G-212
Room Saturday: PLH 105
(Plattenstrasse 47, 8032 ZH)
Max. capacity 25 persons

COURSE DESCRIPTION

In this workshop, we explore the basics of R (a free, easy-to-learn programming language) and R Markdown for statistical analyses, data visualization and the production of easy-to-read reports. The course is aimed at PhD and MA students who plan to work quantitatively, and is open to any interested faculty who wish to begin using or dig deeper in R and R Markdown. All parts of the workshop will include hands-on exercises. No prior programming experience is required. During the workshop, participants will have time to use their own data, ask me questions and get feedback. If participants do not yet have data, data similar to a project of their choice will be simulated for them.

We will cover the following topics:

- ◆ RStudio and how to use it
- ◆ Importing data
- ◆ Conditionals (e.g. if-else statements)
- ◆ Data manipulation using the *tidyverse*
- ◆ Data visualization using *ggplot2*
- ◆ How to write and format reports using R Markdown
- ◆ How to structure R projects in a manner that eases the workflow when working quantitatively, but also facilitates easy reproducibility of the analyses.

LANGUAGE

English (and/or German)

INTERESTED?

Please contact simone.pfenninger@es.uzh.ch to register your interest