

7316: INTRODUCTION TO DATA ANALYSIS WITH R

INTRODUCTION

Mickaël Buffart – Stockholm School of Economics



13.15-13.35. Welcome.
General Information

13.35-13.50. What is R?

13.50-14.05. Short break

14.05-14.50. Getting used to R

14.50-15.00. Wrapping up



GENERAL INFORMATIONS

COURSE OBJECTIVES

An introduction to the R statistical programming language...

focusing on essential skills needed to perform data analysis from entry to preparation, analysis, and presentation.

After this course you should be able to:

1. Import and transform data from a variety of sources using standard R functions.
2. Extend basic R functionality through the use of packages and user-written programming.
3. Create compelling presentations for data analysis projects.
4. Incorporate project management best practices to make project workflows more efficient.
5. Understand how to run an econometrics model using R and process visualization and outputs

This is not a stats class! This is about using R!

ABOUT ME

- Mickaël Buffart
- Course director of D.A. III & this Introduction to R
- Assistant professor at the House of Innovation.
- Ph.D., 2019 in Business Administration
- Postdoctoral researcher, 2020, Dep. of Management Studies, Aalto University
- Email: Mickael.Buffart@hhs.se

- I use R daily in my research
- I wrote some packages in R

Research interest:

- Discourses and narratives in the strategizing process
- New venture creation and growth

COURSE SCHEDULE: 6 MODULES

Date	Room	Module	Title
2022-09-05	A138	1	Getting used to R
2022-09-12	A138	2	Playing with data
2022-09-19	A138	3	Describing data
2022-09-26	A133	4	Modeling data
2022-10-03	A133	5	Getting to a more advanced playground
2022-10-09	A350	6	Interactive visuals

2022-10-16 T 23:59 → Final assignment due

WHAT'S NEW? (VERSION FALL 2023)

- Updated lecture outline to improve clarity
- More example codes, improved practice
- Improved some recommendations
- Final exam provided on the first day
- I will type commands in R instead of writing them on the board (remind me if I don't)

HOW DO WE WORK?

- The course is 4 ECTS
- 6 modules: all happen face to face
- You are expected to come with a laptop, with R and Rstudio installed. We will install other tools later during the course
- **During modules:**
 - You are expected to interact, comment, and ask questions
 - You are expected to run RStudio and reproduce what we are doing during the class
- Please be active, ask questions, talk with me!

Interact, interact, interact!

LECTURE & SEMINAR MATERIALS!

- On canvas, you will find:
 - Written material for each module
 - Assignments
 - News & updates
 - Discussions about your and others' questions
 - Procedure to install the tools we use
- **Between modules:**
 - learning and homework
- If you have questions between modules, **post them on the discussion page!** Your question is likely of general interest.
- **Ask questions during the class**
- If you miss a class, read the materials, do the exercises independently, and ask questions!

Practice, practice, practice!

REQUIRED WORK & EXAMINATION

- **What is required from you?**
 - Work regularly! Make sure you understand the class by the end of each module
 - Do the given homework before the next session
 - Ask question about it during the class
 - Do not hesitate to discuss about your own needs and wishes about R.

FINAL ASSIGNMENT (100%)

Individual

Pass or fail (no grade)

About practicing R

To be done 7 days after the last module