
QTM 150

Intro Class

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EMORY
COLLEGE
OF ARTS AND
SCIENCES

Institute for Quantitative
Theory and Methods

Overview

Today's class:

- About QTM 150
- About me
- About you
- DataCamp

QTM 150: Intro to Statistical Computing

Statistical Computing

- Statistical computing is everywhere:
 - Media
 - Science
 - Technology
 - Farming
 - Medicine
 - And they are among the best-paid jobs we have now!
 - Just Google "Data Science Salaries" to see it...
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Statistical Computing

- However, there is a shortage of qualified workers in the field.
- This class is the beginning to bridge this gap, and qualify for a Data Science career.

Course Description

- This lab provides an introduction to statistical computational tools.
- The material is selected to enable you to become proficient enough to actively implement the methods your research.

Course Description

- There are many softwares we could use for this purpose.
- In this class, we will use R
- Go ahead and Google "R statistics"



Learning Outcomes

By the end of the course, you should be able to:

1. Master the knowledge of R basic computation and simulation
2. Deal with complex and messy real data and fluently reshape data into the most convenient form for analysis or reporting
3. Use graphics to explore and understand data
4. Gain familiarity with basic data collection, storage, and manipulation.

Class Structure

- We will have one lab every Friday
 - After the lab (not this first one...), I'll post a quiz about the lab content
 - You will have 12 hours to finish this quiz
 - There will be one problem set each week
 - The next two weeks are going to be comprised of DataCamp assignments
 - I'll make a post about DataCamp next Tuesday
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Is this class hard?

- Yes and no...
- Yes: because it is for most of you the first time you are using a programming language
- No: QTM faculty have a lot of experience guiding you through your learning process
- And we are committed to your success!

Course Evaluation

Four components:

- In-lab quizzes (30%)
- Weekly homework (30%)
- In-lab exam (20%)
- Project (20%)

How to find help?

- I will hold office hours every week.
 - Also, Ms. Mehta and Ms. Zhang will also hold office hours (they already made an announcement).
 - I'll post an announcement about GroupMe today. Join it!
 - Don't forget: we are here to help! All you need is to ask.
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Questions?

About me

About me

My name is Umberto Mignozzetti

I am a political scientist, with PhD
from NYU



About me

I study comparative politics, with a focus on how to improve education and health care in developing economies

Cases \pm 60 Days Around Intervention



About me

I am Brazilian



About me

And in my free time, I love to watch and play soccer.



Questions?

About you

About you

I will call your name now using my terrible pronunciation. Please:

1. Teach me how to pronounce your name
2. Tell me your major/minor/interests
3. Tell me something interesting about you

DataCamp

DataCamp And Software Install

- The first two labs will be in DataCamp
 - It is fairly straightforward to use it, and you will see that it is a very useful tool.
 - By Tuesday, after the add/drop/swap, I will post more instructions
 - For now, I posted two videos on how to install R and R Studio, the main tools we will be using in the lab.
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Questions?

Have a great weekend!
