

# University of Cape Town STA5092Z - Exploratory Data Analysis

Dr Şebnem Er

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## Overview

The idea for the course is to be very applied and hands-on, and based around worked examples and case studies, with a focus on the code used to generate an analysis.

The course is entirely in R, and the goal of the course is as much to introduce students to R and develop R skills as to cover the theory of EDA.

## Structure of the Course

24 lectures in classroom environment Mon/Wed/Fri 4-6pm.

8 lectures by Drs Şebnem Er, 16 lectures by Mr Mzabalazo Ngwenya

## Lecturers



Figure 1: Photo credit Amanda Torr

**Dr. Sebnem Er** (she/her) is a senior lecturer at UCT, Statistical Sciences Department, and program coordinator for MSc Data Science degree at UCT.

I am located at PD Hahn Building 5th Floor, Room 5.55 however I will not be always in my office. If you would like to see me in person in my office please schedule a meeting by sending an email: [Sebnem.Er@uct.ac.za](mailto:Sebnem.Er@uct.ac.za)

## Grading

Component Weight	Class exercises	20%	Assignment1 15%	Assignment2 45%
Exam 20%				

## Resources

[Exploratory Data Analysis with R by Roger Peng \(RP\)](#)

[STA545: Data wrangling, exploration, and analysis with R by Jenny Bryan \(JB\)\)](#)

[R for data science by Hadley Wickham \(HW\)](#)

[Exploratory Data Analysis, 1977 Addison-Wesley Publishing Company \(John Wilder Tukey\)](#)

[Exploratory Data Analysis: Past, Present and Future, 1993 Technical Report \(John W Tukey\)](#)

[How to look at data: A review of John W. Tukey's Exploratory Data Analysis, 1979 \(Russell M. Church\)](#)

## COURSE MATERIALS

There is no prescribed textbook for this course. Please follow the [github link](#) provided.

## **DULY PERFORMED AND EXAMINATION REQUIREMENTS**

### **9. NOTICES**

All correspondence with the department must contain your student number.

### **10. COMPUTER USE**

You will have access to SCILAB C, D for several services: the Web, e-MAIL, **R**, WORD, and EXCEL.

### **Lecture Content**

All content for this course is available in this [link](#). You will find all the necessary slides, pdfs, **R** examples in this link.