

# Intro to Social Science Data Analysis

## Lecture 1:

## Introduction to the Course & R

**Christopher Gandrud**

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# Christopher Gandrud

- ▶ **Email:** [gandrud@yonsei.ac.kr](mailto:gandrud@yonsei.ac.kr)
- ▶ **Office Hours:** 15:00-17:00 Wednesday (정208)
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What should you call me?

Please call me Christopher or Chris

In this course we respect **knowledge & evidence**, not titles.

What experience do you have reading and using data analysis?

What do you want to be able to do?

### Why take this course?

- ▶ Learn how to take **raw data**, **explore it**, and **present what you find**.
- ▶ This course **is hands on** and **practical**. (If you want a mathematical introduction to statistics, I recommend taking a course in the Statistics department.)
- ▶ The skills taught in this course are important for many **real-world** situations:
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  2. Government
  3. Business
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### Specifics

- ▶ We will learn how to do these things with the **R** statistical language in the program RStudio.
  - ▶ R is difficult when you start to use it, but it is very **powerfull** and being able to use it is a very **marketable skill**.
- ▶ Finally, the course is **not** about memorisation.
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This course is useful.

This course is intended for beginners.

- ▶ You should have good **basic computer skills** (Have used Microsoft Excel, for example.)
- ▶ You need to be **curious**: Why did that happen? How can I solve this problem?
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### Part IV: Introduction to Linear Regression

Research Projects:

Use all of these skills.

# Course Materials (1)

**Blog:** <http://yonsei-data-analysis.tumblr.com/>

**Password Protected:** YonseiData

**Syllabus:** <http://bit.ly/QwE4UM>

# Reading

The main **text** is: *OpenIntro Statistics (first edition)*

It is **free** and can be downloaded here:

<http://www.openintro.org/stat/downloads.php>.

You might also want to get: Crawley, Michael J. 2005. *Statistics: An Introduction Using R*. Chichester: John Wiley Sons. Ltd.

## Course Materials (3)

However, the course is more about **doing** than **consuming**.  
So the focus is on **completing tasks**, not reading.

To help you complete tasks, we are building a course **Wiki**:  
<http://bit.ly/NkdgfW>.

# Assessment (1)

- ▶ 10% Class Attendance and Participation
- ▶ 40% 5 Short Assignments: Due weeks 3, 5, 7, 9, 11
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More details will be given in future classes  
about the Short Assignments & Research  
Project

# Now

1. Look at the course blog  
(<http://yonsei-data-analysis.tumblr.com/>)

**Please post!**

2. Install R & RStudio if you want to use your own computer. (RECOMMENDED)

You can find instructions on the course wiki page:  
<http://bit.ly/PBjDdw>

3. Open and play around with RStudio
4. Get a Dropbox account (<https://www.dropbox.com/>)

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