

# Lecture 1. Syllabus and Setup

Marcy Shieh

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# Goals

- ▶ Review syllabus

- ▶ [https://github.com/marcyshieh/ps811/blob/master/syllabus/ps811\\_fall2020\\_syllabus.pdf](https://github.com/marcyshieh/ps811/blob/master/syllabus/ps811_fall2020_syllabus.pdf)

- ▶ Setup

- ▶ <https://marcyshieh.github.io/ps811/ps811-lecture-1-setup>

# Class Materials

- ▶ Files and folders
  - ▶ <https://github.com/marcyshieh/ps811>
- ▶ Lecture supplements
  - ▶ <https://marcyshieh.github.io/ps811/>

# Logistics

- ▶ An introduction to computing tools used by the discipline
- ▶ 1-credit, pass or no pass
- ▶ Class meets on Thursdays, 10am-11am CST on Zoom (required) and 11am-12pm on Slack to collaborate and ask questions (not required)
- ▶ Office hours on Mondays, 3pm-5pm on Slack (or by appointment)
- ▶ Let me try to say this without sounding like a loser, but I tend to be in front of my computer quite a bit so feel free to just message me on Slack if no one has responded to your question in the past 24 hours
- ▶ Email me if you have personal requests

# Learning Outcomes

1. Become R-literate
  2. Prepare documents in R Markdown
  3. Manage projects using Git
  4. Use software to expedite your work
- If you have a question that is specific to PS 812, *please* ask Dillon and/or Adeline. This class is meant to provide you tools to familiarize you with R and other computing tools and may even help you with some aspects of PS 812, but they are not exactly complementary.

# Expectations

- ▶ Submit assignments: weekly assignments (50%), midterm project (20%), and final project (50%)
  - ▶ Weekly assignments will be in the “exercises” folder on the class Git repository:  
<https://github.com/marcyshieh/ps811/tree/master/exercises>
  - ▶ Open the .pdf file.
- ▶ Ask questions
- ▶ Help your colleagues on Slack
- ▶ Credit your colleagues for helping you (and not blindly copy and paste their work and pass them off as your own)
- ▶ Attendance is strongly recommended, but all lectures will be uploaded to Canvas

# Class Schedule

- ▶ First half of class will be focused on project workflow
  - ▶ In the midterm project, you will get to demonstrate how well you can apply the tenets of a reproducible project workflow.
- ▶ Second half of class will be focused on using R
  - ▶ In the final project, you will demonstrate how well you can conduct data analysis in R. This analysis will hopefully be part of a paper you are writing for one of your seminars.

# Setting Up

The setup materials are all here:

<https://marcyshie.github.io/ps811/ps811-lecture-1-setup>

You will learn how to:

- ▶ Create a Github account.
- ▶ Set up Git.
- ▶ Connect RStudio to your Github account.
- ▶ Work with Git on RStudio.