PSC 400 SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

INTRODUCTION

WHAT IS THIS CLASS ABOUT?

- Learn how to conduct data analysis yourself
- Finding data, data cleaning and data manipulation, data visualization, and data analysis

CLASS WEBSITE

- http://simonweschle.com/psc400
- Refresh using
 - Windows: ctrl + F5
 - Mac/Apple: Apple + R or command + R

APPROACH

- Work through assigned reading before class
- Class
- After class: review reading if necessary
- Short review exercises (approx. weekly)
- Problem sets (every other week)
- Your own data analysis project (over course of semester)

ASSIGNMENTS/GRADES

- Class Participation
- Programming Review Exercises
 - (roughly) weekly, graded P/F
- Problem Sets
 - 5-6 total, every 2 weeks
- Data Analysis Memos
 - 2-3 pages, 5-6 total, every 2 weeks
- Data Analysis Paper
 - Due May 6

DATA ANALYSIS PAPER

- Answer your own research question
 - Memos: your research question, your data, data cleaning, descriptive statistics, bivariate relations, (first) regression results
 - Final paper: set out your research question, explain the data and statistical methods you use to investigate it, and describe what, based on your data analysis, the answer is

CLASS TOPICS

- Getting Started with R
- Causality with randomized experiments
- Single Variables
- Finding and Cleaning Data
- Bivariate Relationships
- Multivariate Regression
- Spatial Data, Network Data, Text as Data,
 Website Scraping
 - will choose some of those topics based on student interest
- Data Analysis Paper Workshop

TEXTBOOK

- Elena Llaudet and Kosuke Imai: Data Analysis for Social Science, A Friendly and Practical Introduction. Princeton University Press
 - Other readings on Webpage/Blackboard

STUDENT HOURS

- Tuesday 1:00-3:00
 - 332 Eggers or Zoom (info on syllabus)
 - Or by appointment (email me)
 - Your chance to talk to me about course material, college in general, or just to chat
 - Please talk to me as early as possible about any issues or questions
 - If I know what's going on, I can almost always help in some way (or I know someone who can help)
 - It's much more difficult to do something after the fact

R AND RSTUDIO

