



## Project and Midterm

David Puelz

February 27, 2023

# Project



The days of the presentations will be:

→ April 13 (depending on # of groups)

→ April 18

→ April 20

\*order of presentation will be randomly assigned among groups

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There are two components of the project:

(1) **Presentation**: either using powerpoint, beamer, or Rmarkdown slides. 15min long, states your question, data, findings, and conclusion, as if you were presenting your results to your boss.

(2) **Write-up**: using Rmarkdown, like our homework but very polished with pretty figures and descriptive prose. Like the beginnings of an academic paper.

\*breakdown: 25% (1) + 75% (2)



- The project will revolve around a question of interest to **you!**
- You can either **replicate an existing paper** or **answer your own empirical question** using data that you figure out how to find and the tools we've learned in this class.
- If you choose **replication**, I expect your numbers will exactly match the published paper and it is fully replicated. If you choose your **own question**, you are free to analyze the data how you wish.

Important dates:

**Mar 21** – group formation ( $\leq 3$  people) and project approval

**Apr 13, Apr 18, Apr 20** – class presentations

**Apr 27** – project write-ups due



- Start thinking about your project and finding data soon! **This will often take the most time**
- Feel free to ask me questions as you start to formulate your question of interest



75min, in class on **Mar 9** (blue book)

T/F & free response type questions on the **causality through prediction** sections of the course

There will not be code-writing. Instead, there might be blocks of code for you to interpret

For studying, focus on the big pictures concepts (e.g., random assignment, confounding, bootstrapping, & conditioning). Any derivations requested will be simple. Go through slides, readings, & homeworks