# **Final Project Presentation**

PSC290 - Data Visualization, Fall 2022

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# **Final Project Proposals**

- Due at 11:59 PM PST on October 31, 2022 on Canvas
- 1-2 page (single spaced) proposal
  - Short background (why do you / we care?)
  - Research question(s; only the question[s] you are focusing on)
  - Short method (what are the data? Which are you using?)
  - Visualization plan (short summary of your proposed visualization)
  - Challenges and barriers (what do you struggle with this visualization; are there specific barriers?)

#### **Visualization Plan**

Can be any combination of the following:

Text description

- clearly describe axes/scales, fills/colors, panels, etc.
- describe affordances you will build into the visualization to aid understanding
- describe why you chose this visualization

Draft visualization (digital)

• rough visualization of some or all of data

Draft visualization (drawn)

- some roughly drawn visualization showing what you are hoping to do
- particularly helpful if you foresee barriers or don't know how to do it
- can also draw these on a plot of yours from the past, etc.

#### Goal

The goal of this proposal is to:

- Provide you with support to build visualizations you may be nervous about
- Anticipate barriers and provide you tools
- Set you up to create a visualization that you are proud of

### Scope

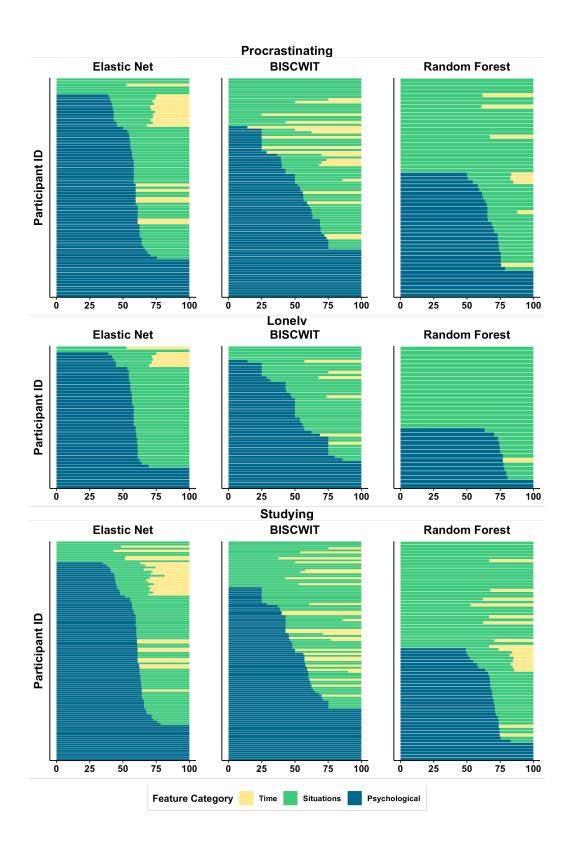
What is okay?

- Introducing a new kind of visualization to your area of research
- Offering improvements to "standard practice" visualizations in your area
- Setting up a procedure for a kind of visualization you've long wanted / needed to figure out
- Really anything that is both useful to you and displays some sort of mastery of course content

# Recommendation

You will have an easier time with this project if you anchor your visualization on a specific research question.

As one brief example, in one of my recent papers, I was interested in the extent to which psychological, situational, and timing factors predicted different momentary experiences and behaviors using person-specific machine learning question (Beck & Jackson, 2022). There were five research questions I was answering more generally, but one was just "Do psychological, situational, time, or full feature sets perform best?" I answered this with the following visualization, which shows the relative proportion of individuals' psychological, situational, and timing features in their best performing model using a "sequence plot" I stole from genetics (which you'll notice looks a lot like a rotated stacked bar chart, which it is!).



Using a research question will help you to anchor your visualization and allow you to consider the extent to which you think your visualization clearly answers it. While not required, I highly suggest using one.