

# Mock Showcase

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**DSC 106: Data Visualization**

Sam Lau

UC San Diego

# Announcements

Today: Mock Final Project showcase

**Fri Mar 14:** Final Project video highlights

**Mon Mar 17:** Final Project due

**Tue Mar 18:** Final Project Showcase

You should have gotten an email about showcase logistics. If you didn't, email our TA Giorgia ASAP.

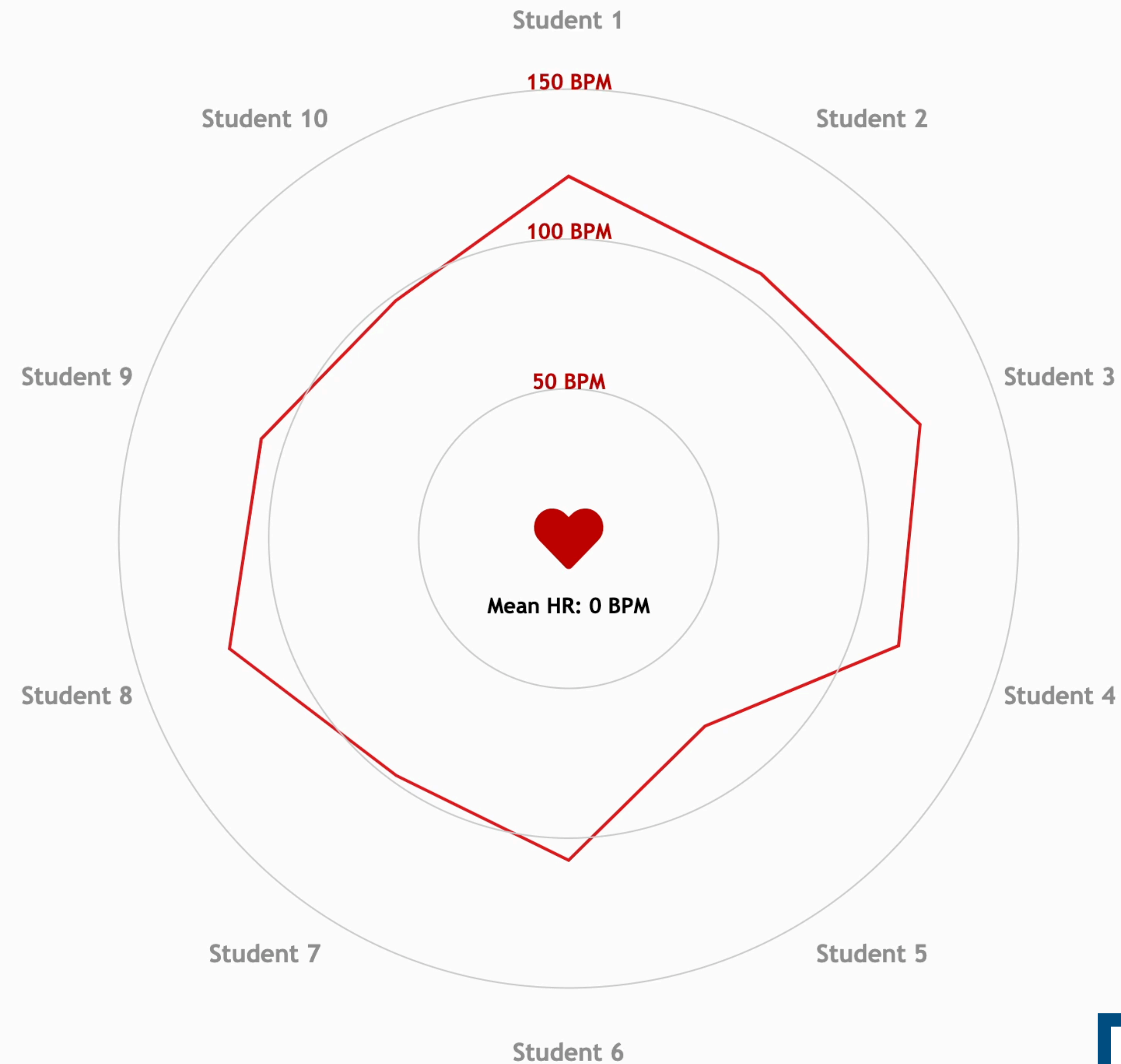
# Project 3 Best Project Awards

Given to 8% of project submissions, chosen by me and Ben

Include this on your resume!

# Finals Frenzy: When Do Students Feel the Most Pressure?

Students see the highest BPM levels at the start and 30 minutes before the end of the exam.



Alyssa Tallada, Katelyn Villamin,  
Nancy Shen, and Ryan Ly

<https://nglyry.github.io/dsc106-proj3/>

Start of Exam



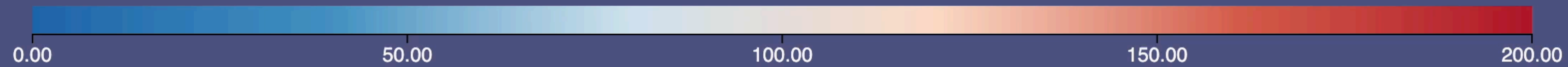
End of Exam

Time: 08:40:00

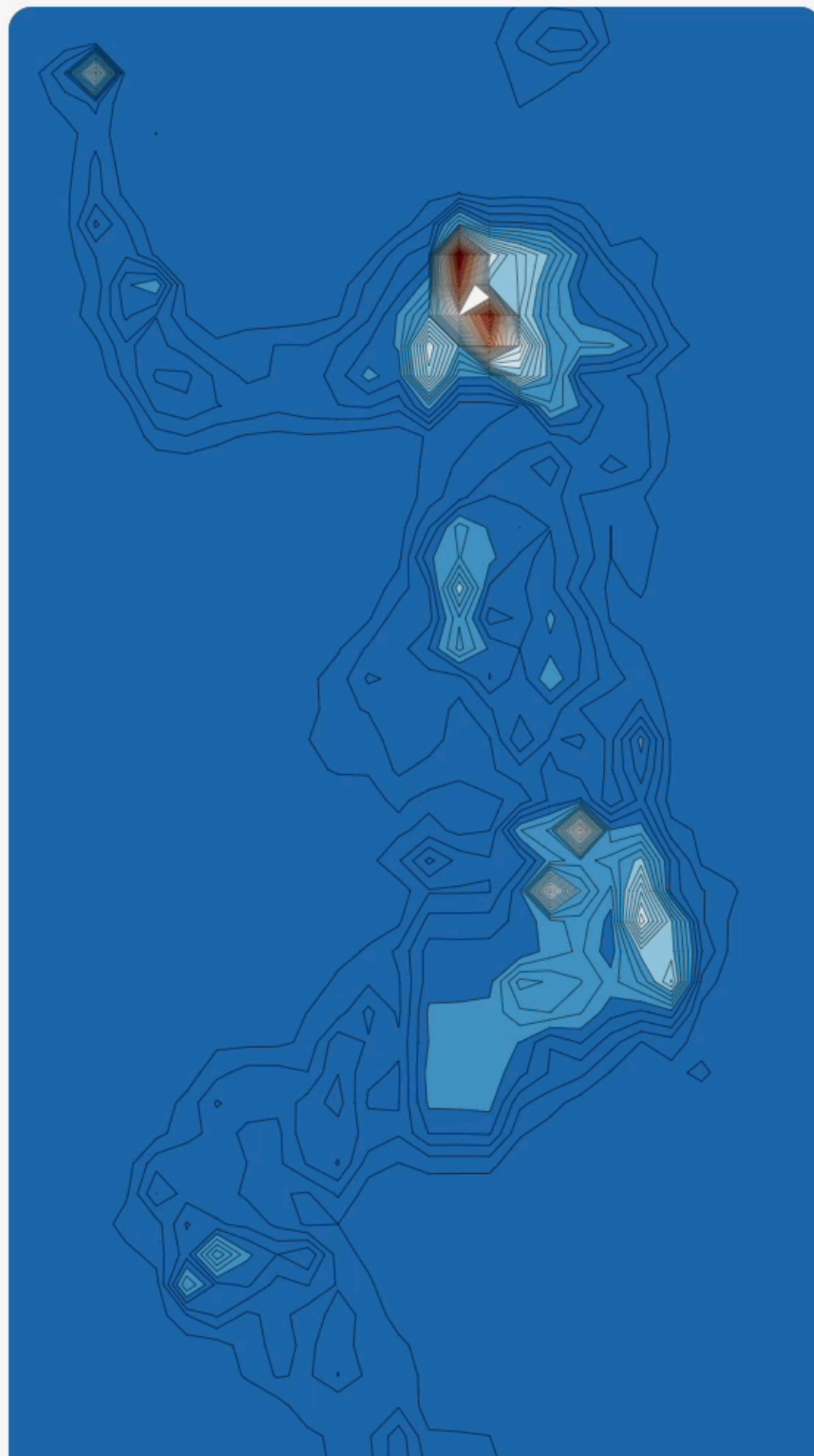
Play



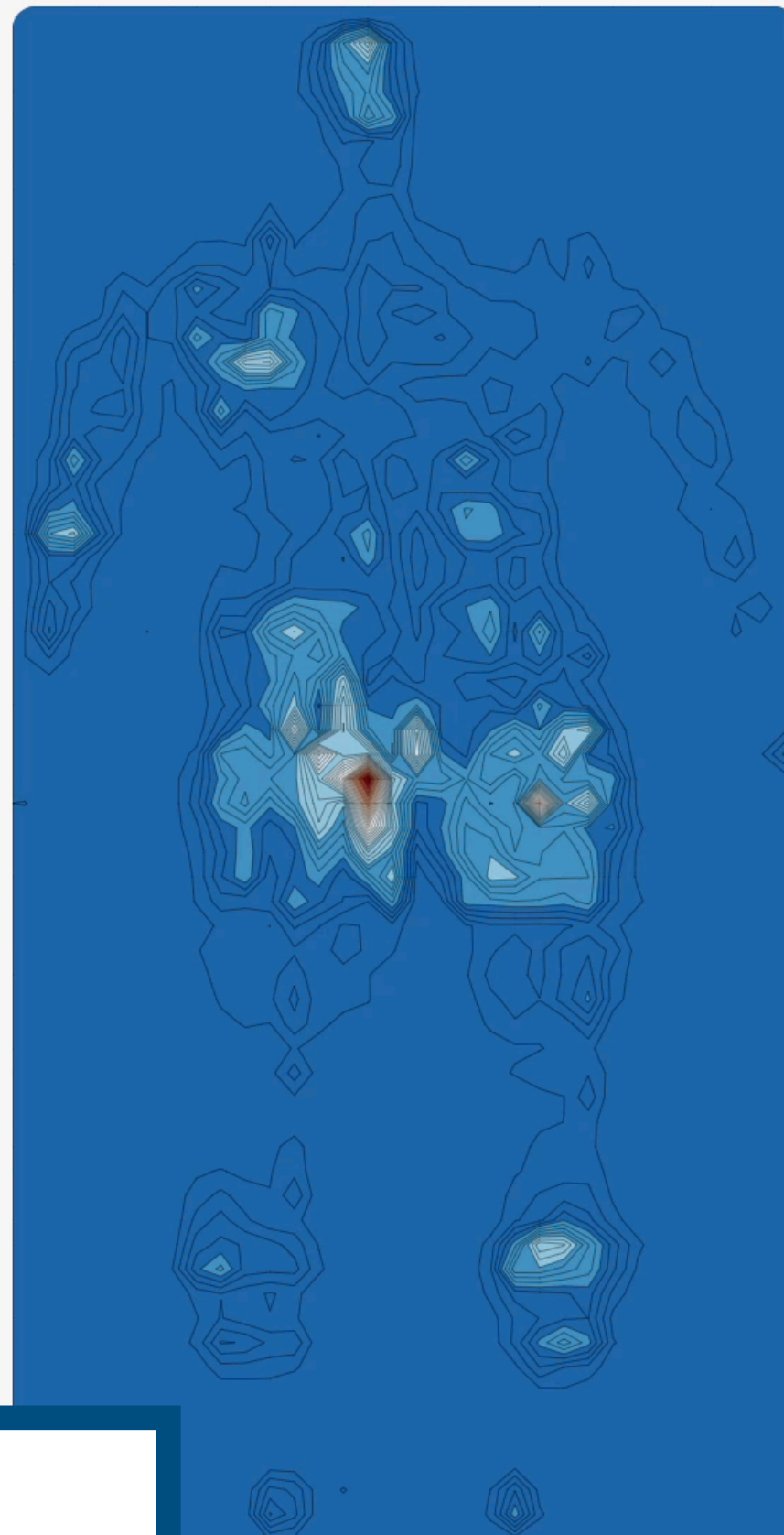
Pressure (mmHg)



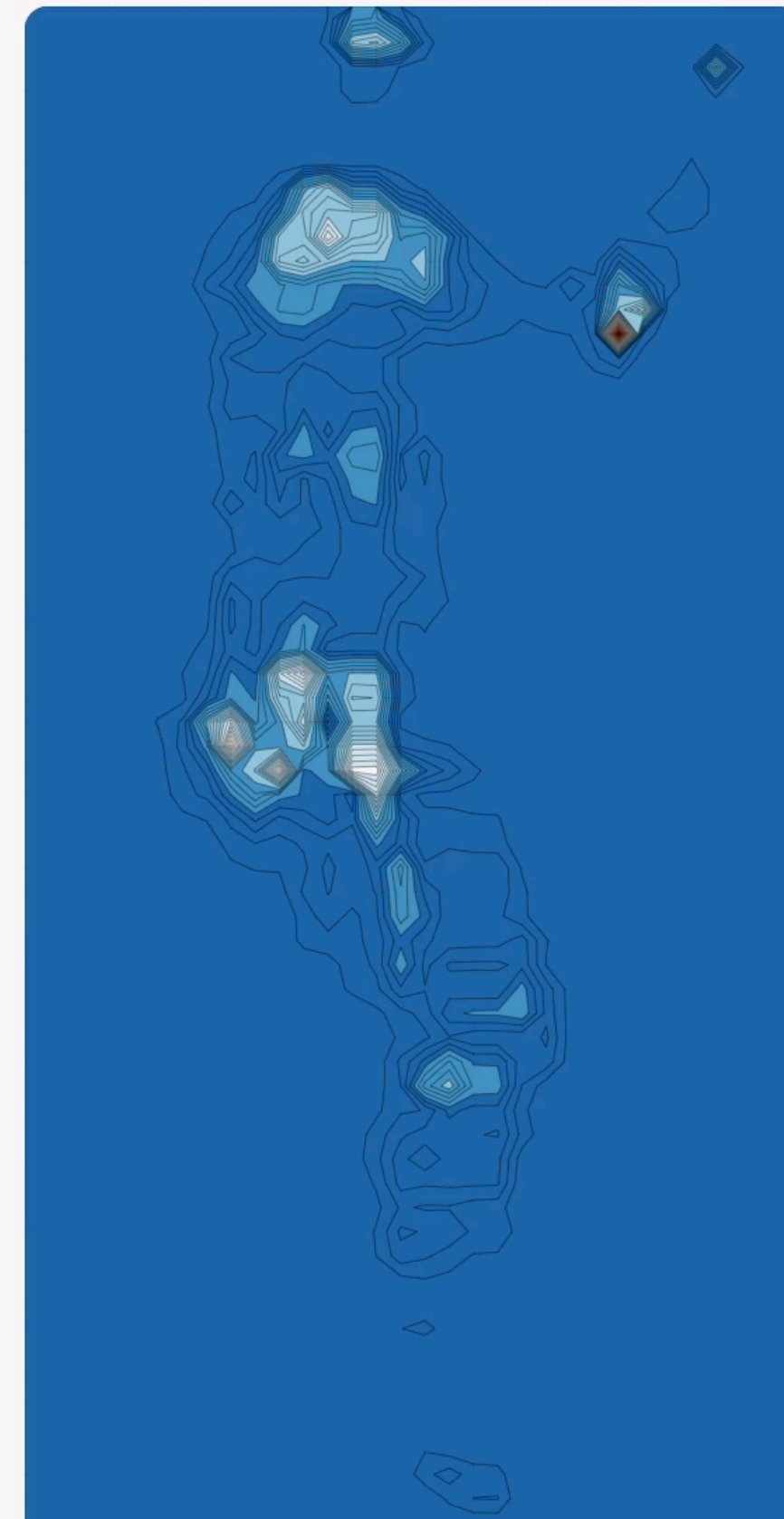
Sleeping On Your Left



Sleeping On Your Back



Sleeping On Your Right



Enter Your Weight ↓

75 kg

Enter Your Height ↓

180 cm

Reset

Cecilia Lin, Guoxuan Xu, Felix Najera, and Ashley Chu

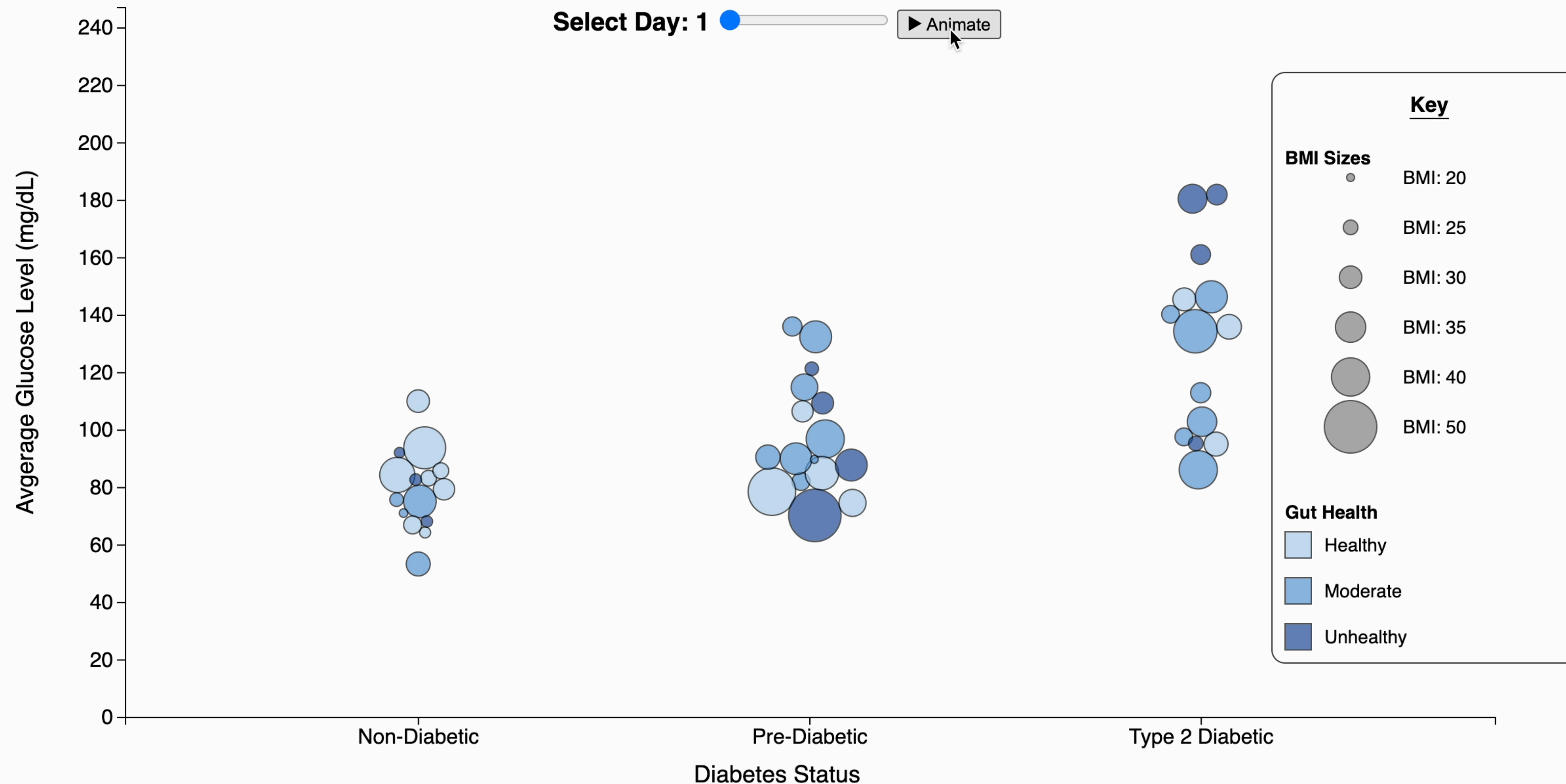
<https://g7xu.github.io/PosturePress/>

# Unraveling Glucose Patterns: A 10-Day Look at Diabetes & Health

[Learn More](#)

This plot compares the average glucose levels of patients categorized as by diabetic status, with bubble size representing BMI and color indicating gut health status over 10 days.

Biggest Takeaway: Type 2 diabetics show much higher variability in average glucose levels. Non-diabetic and pre-diabetic groups have more stable glucose levels.



Avi Mehta, Idhant Kumar, Kevin Souder, and Neil Dandekar

[https://neildandekar.me/  
glucose-levels-visualization/](https://neildandekar.me/glucose-levels-visualization/)



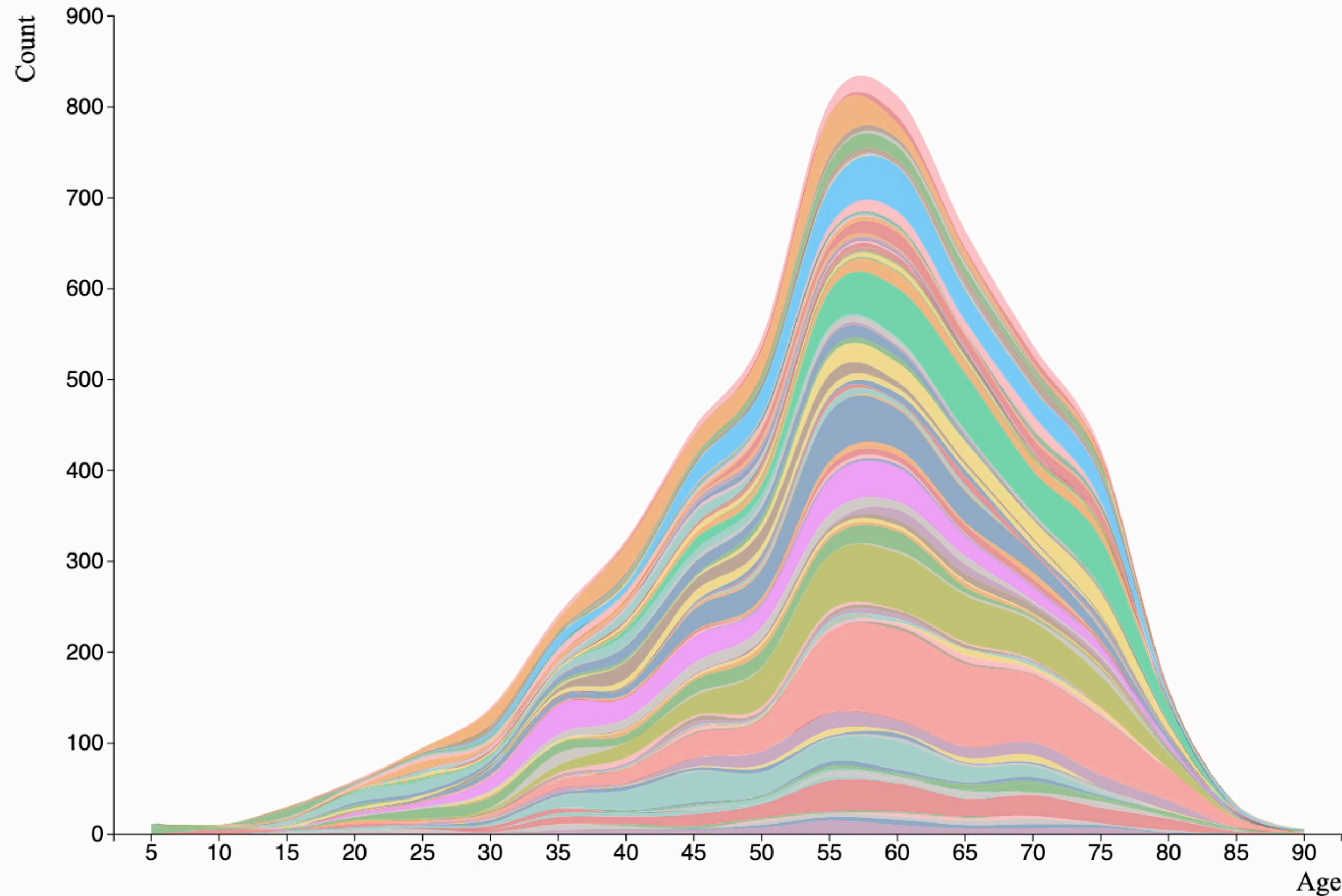
## Select Diseases

All General surgery Gynecology Thoracic surgery Urology

All Female Male

Distribution Death Rate Physical Condition Percentage in Department

X-axis: Age ▾



Hargen Zheng, Kaijie Zhang,  
Minghan Wu, and Rihui Ling

<https://hgnzheng.github.io/CopyPasta/>

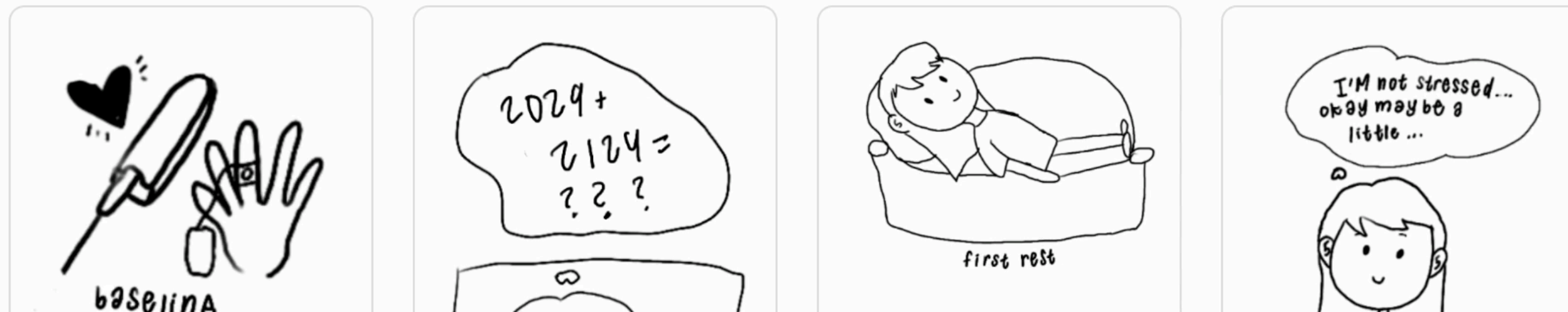
# How good are humans at gauging their actual vs. perceived stress?

Hongn, A., Bosch, F., Prado, L., & Bonomini, P. (2025). *Wearable Device Dataset from Induced Stress and Structured Exercise Sessions* [Data set]. PhysioNet. (Version 1.0.0). <https://doi.org/10.13026/zzf8-xv61>

Understanding how well people can assess their own stress levels is crucial for mental health awareness and effective stress management. While we often rely on self-reported stress measures, these subjective assessments may not always align with our body's physiological response to stressful situations. This disconnect between perceived and actual stress levels can impact our ability to recognize when we need to take action to manage our stress effectively.

This interactive visualization compares an observed stress metric, derived from physiological signals, with self-reported stress levels. We focus on a stress induction protocol from the *Wearable Device Dataset from Induced Stress and Structured Exercise Sessions* (Hongn et al., 2025).

Various measurements, including heart rate, electrodermal activity, and blood volume pulse, were collected through a wristband during an experimental protocol. Each phase of the protocol is designed to either induce or alleviate stress through specific tasks and recovery periods. The protocol is broken down into 7 phases:



Claire Wang, Emily Yip, Fong Vo, and Jason Tran

<https://clemhubble.github.io/jecc-stressors/>



# How Do Students' Stress Fluctuate Throughout an Exam Period?



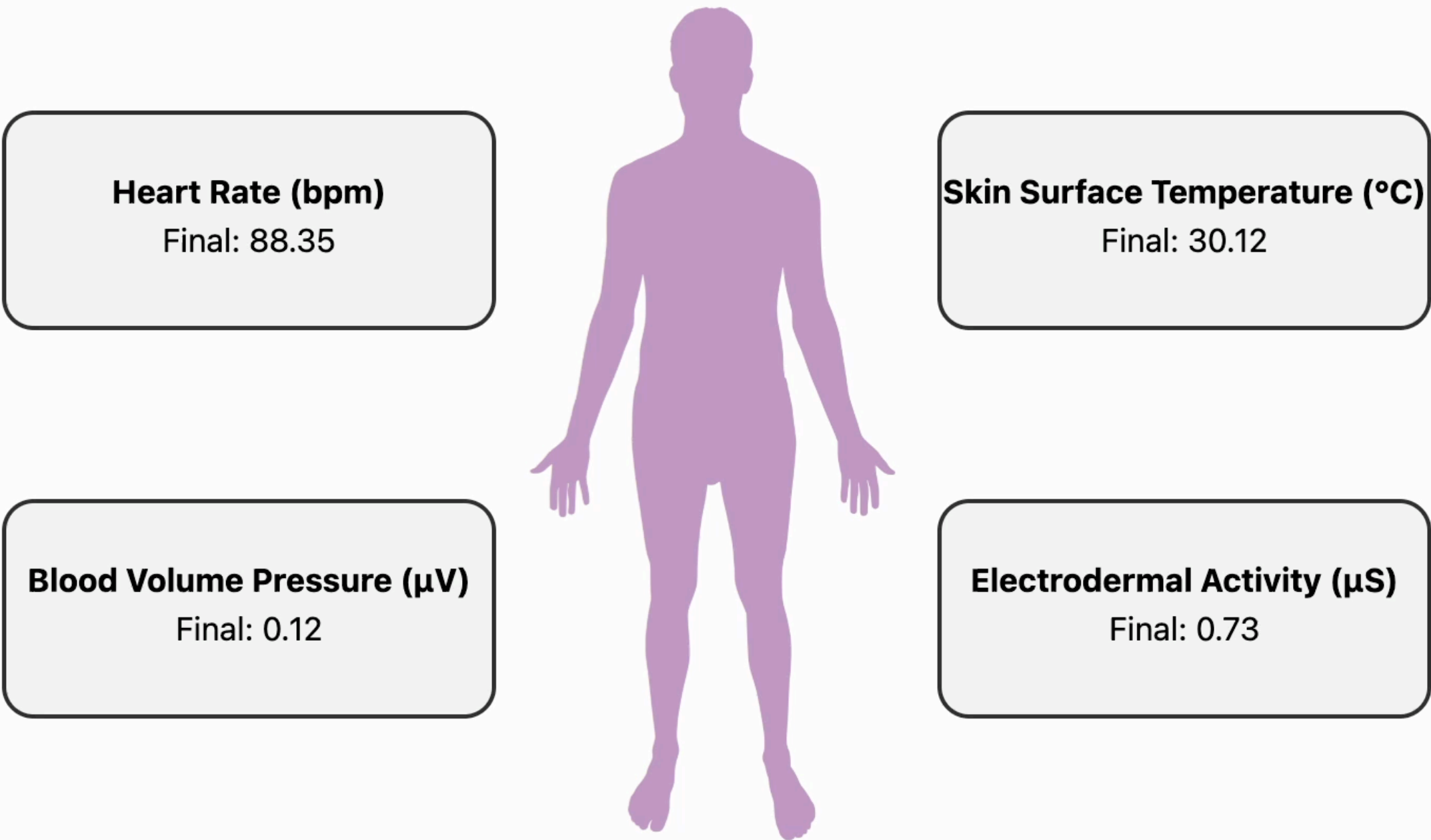
Choose from the Tests Below:

- ☐ Midterm 1
- ☐ Midterm 2
- ☒ Final

Choose a measure:  
(to see the graph)

- ☒ Heart Rate (bpm)
- ☐ Blood Volume Pressure ( $\mu V$ )
- ☐ Skin Surface Temperature ( $^{\circ}C$ )
- ☐ Electrodermal Activity ( $\mu S$ )

Overall Stress Level



Ada Mo, Claire Lee, Jenny Xu,  
and Michelle Hong

<https://clairelee-ucsd.github.io/dsc106-project3/index.html>

# Mock Showcase Round 1

Half of your group are Presenters, other half are Audience.

1. Presenter group sets up laptop, presents work to people walking by.
2. Audience group walks around and looks at presentations, interacts with website, asks followup questions.
3. Audience shares: What were the strengths about the presentation and visualization? What could be improved?

What ideas did you find valuable from your peers?

[tryclassbuzz.com](https://tryclassbuzz.com)  
Code: **mock1**

# Mock Showcase Round 2

Half of your group are Presenters, other half are Audience.

1. Presenter group sets up laptop, presents work to people walking by.
2. Audience group walks around and looks at presentations, interacts with website, asks followup questions.
3. Audience shares: What were the strengths about the presentation and visualization? What could be improved?

What ideas did you find valuable from your peers?

[tryclassbuzz.com](https://tryclassbuzz.com)  
Code: **mock2**