

PSYC 60: INTRO TO STATISTICS

Prof. Judith Fan Spring 2021

LAST TIME

MINI-REVIEW SESSION #3

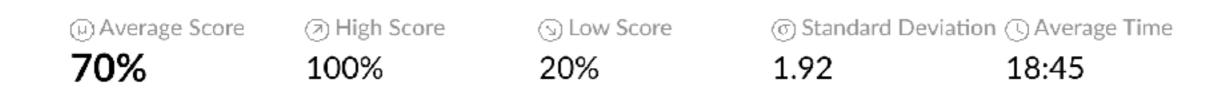


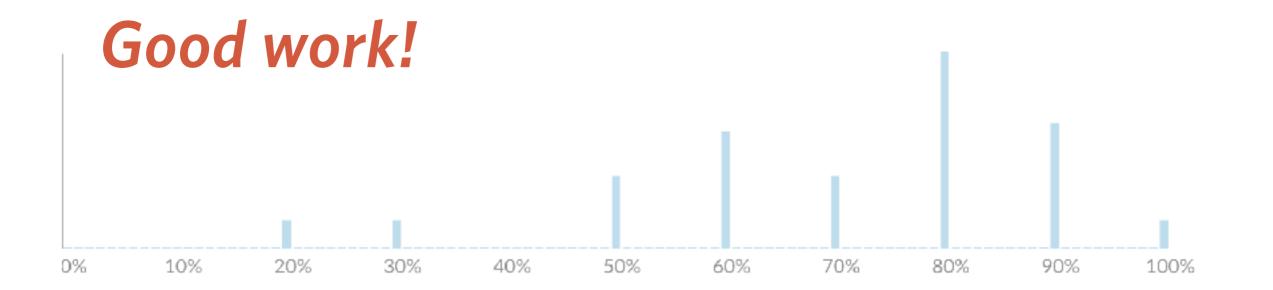
Using an explanatory variable to model variation in an outcome variable

Quantifying effects using confidence intervals

Putting all the pieces together: statistical modeling

Quiz 4

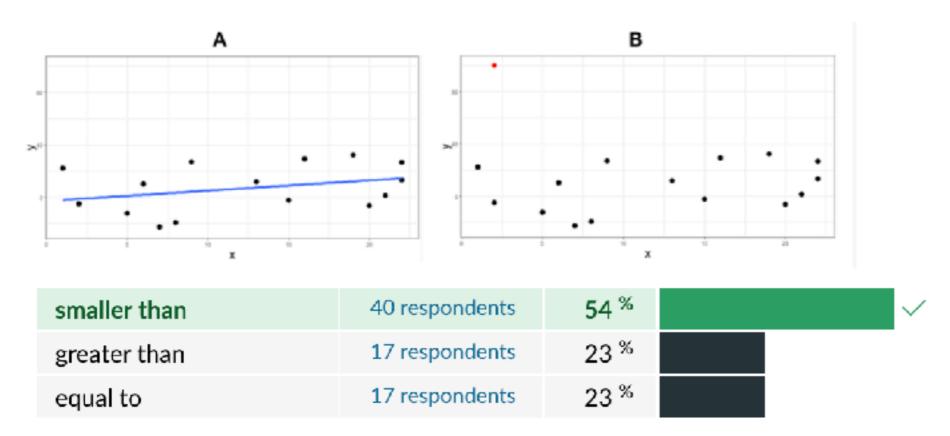




Please review the questions you missed & post your questions to Slack and/or come talk to us about them in office hours.

Quiz 4: REVIEW

The two plots A and B show two scatter plots. In plot A a regression line is plotted over the data -- the slope of the regression line is positive. In plot B, an additional data point has been added (shown in red). With the addition of this point, the slope of a regression line in plot B would be _____ the slope in plot A.



The best-fit line will still try to minimize the squared error (vertical distance) from the red point, making it tilt further down to the right than it would otherwise.

Quiz 4: REVIEW

If we run the following line of R code

favstats(FatMice18\$WgtGain4)

we get the following output

min	Q1	median	Q3	max	mean	sd	n	missing
3	6	8.5	10	17	8.4	3.3	18	0

Which of the following numbers is closest to the Sum of Squared Deviations (from the mean) for the WgtGain4 values of the FatMice18 dataset?

324	3 respondents	4 %	
10.9	25 respondents	34 %	
3.3	14 respondents	19 %	
185	15 respondents	20 %	✓
196	17 respondents	23 %	

Recall that:

$$Var = SSE / df$$

$$sd = sqrt(Var)$$

$$Var = sd^2$$

$$Var = 3.3 ^2 = 10.9$$

$$SSE = Var * df$$

$$SSE = 10.9 * (n-1)$$

DUE THIS WEEK

Model
comparison

May
Before:
Chapter 11
During: Lab
5A

Null
hypothesis
significance
testing

Before: None

During: Lab

5B

Practice Quiz 5

Lab 4 Due

Chapter 11 was officially due at 1pm PT today.

Note: We will be instituting class-wide no-penalty extensions for ALL CourseKata modules. That means that so long as you complete any missing modules by **Friday 11:59PM on June 4**, you will receive full credit. (However, no extensions granted beyond that!)

DUE THIS WEEK

5B

9 Model
comparison
May <u>Before:</u>
Chapter 11
<u>During:</u> Lab
5A

Null
hypothesis
significance
testing
Before: None
During: Lab

Practice Quiz 5

Released Thursday at 5PM & due by 4:59PM on Friday

DUE THIS WEEK

9 Model comparison

May <u>Before:</u>
24 Chapter 11

<u>During:</u> Lab
5A

Null
hypothesis
significance
testing
Before: None

During: Lab

5B

Practice Quiz 5

Lab 4 Due

Lab 4 must be submitted via DataHub by 11:59pm PT on Friday, May 28. Feel free to submit early!

IN SECTION THIS WEEK

- ➤ This week: Begin working toward Milestone 5 (Final Report, due 6/4). This report synthesizes all of the work you have done throughout the quarter on your final project and will be graded. Only one submission per group is required.
- ➤ This week: We will also be releasing templates you can use for Project Milestone 6 (Project Poster, due 6/9). This poster will provide the backdrop to your group's 5-minute presentation at the Final Project Showcase on Thursday, June 10.

CAPES OPEN THIS WEEK!

4-5 6-7 8-9 10-11

CAPE



You Are CAPEing

SAMP 100 - Sample Course

Instructor Sample Instructor

Term WI21

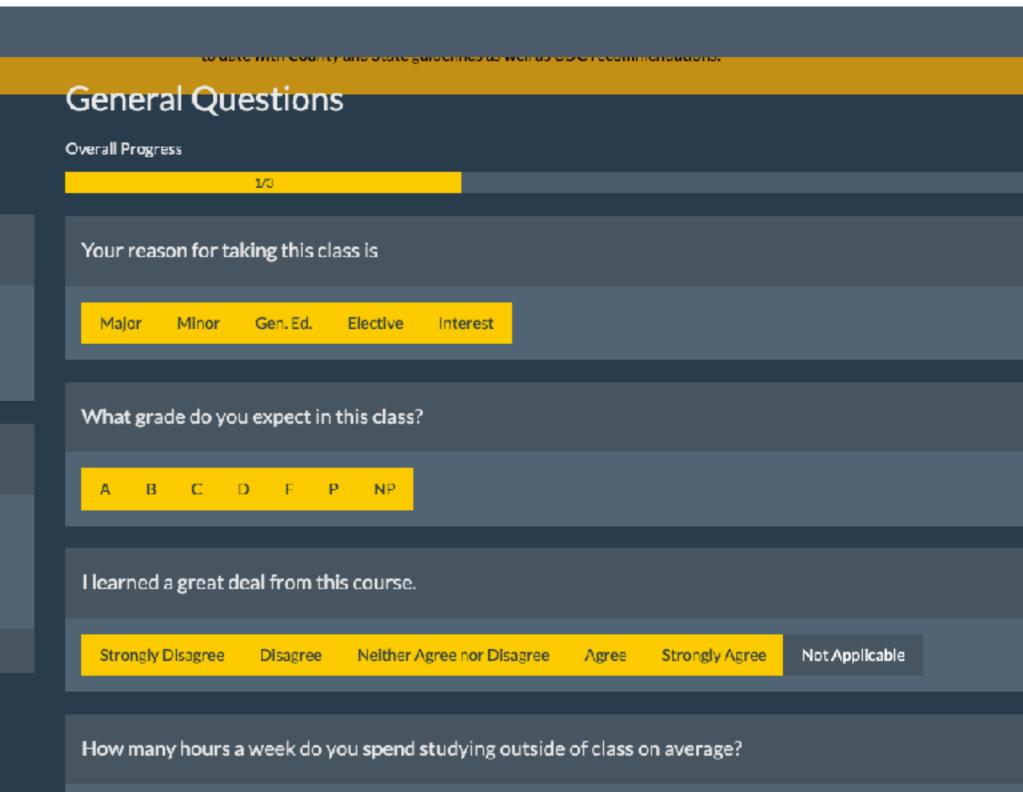
CAPE Sections

General Questions

Course Questions*

Sample Instructor Questions*

*contains required question(s).



12-13

14-15

20 or more

CAPES OPEN THIS WEEK!

- ➤ CAPEs (Course and Professor Evaluations) open today Monday, May 24! Please do take the time to fill one out for PSYC 60!
- ➤ This is your chance to share your honest feedback about your learning experience in this course and help me make this course better. I read and take your comments seriously, and it means a lot to me to get an accurate picture of what you've gotten out of this course, so I know what I can do in the future to better support future students in this class.
- ➤ On my end, I've been impressed by your courage & persistence throughout this quarter, in a very difficult year. I admire your willingness to embrace these intellectual challenges and also <u>support</u> one another with patience and compassion.

ALSO \$\$ FOR IA EVALUATIONS!

Evaluation System

Raffle Prizes

As an incentive for students to submit evaluations of their Instructional Assistants, several prizes are being offered this quarter:

Five (5) \$100 Triton Cash cards

Fall 2020 Raffle Winners

The following students were randomly selected to receive the following prizes, and will be contacted with information on how they may claim their prizes. If your name evaluate your Instructional Assistant next quarter and you may be one of the lucky winners!

\$100 Triton Cash cards

- LOPEZ, LESLEY
- NELSON, GARRETT THOMAS
- LIM, DAVID HUI
- CYRIL AROKIA RAJ, CHRIS MATTHEW
- · SUSUKI, KRISTEN KIMI

Terms and Rules

- Prizes are only offered for student Instructional Assistant evaluations. The prizes are not offered for graduate course evaluations or instructor IA evaluations. This
 affiliated with CAPE.
- One entry is automatically entered for each valid Instructional Assistant evaluation submitted. Blank evaluations are not considered valid. The contents of evaluation bearing on the submitter's likelihood of winning.
- To maintain the anonymity of those who have submitted evaluations, prize entries are stored separately from evaluations.
- Entrants may only win one item per quarter.
- Prize winners will be randomly selected within 24 hours after the end of the evaluation period. The names are drawn from all entries.
- Once the names are selected, the winners will be contacted via UCSD email about their prize. The winners will be given instructions on how to pick up their prize
- The names of prize winners may be published on the Academic Affairs Evaluations system and in future notifications.
- Prize winners may not exchange their prizes for other prizes, or for the cash value of their prizes.

TODAY

LAB 5A: MODEL COMPARISON



General announcements

Break out into lab groups

Return to main room and debrief

Want real-time help?
(1) Post to #lab-assignments,
mention both your TA & Room
(2) "Asking for help" in Zoom
(#2 is a bit less reliable!)

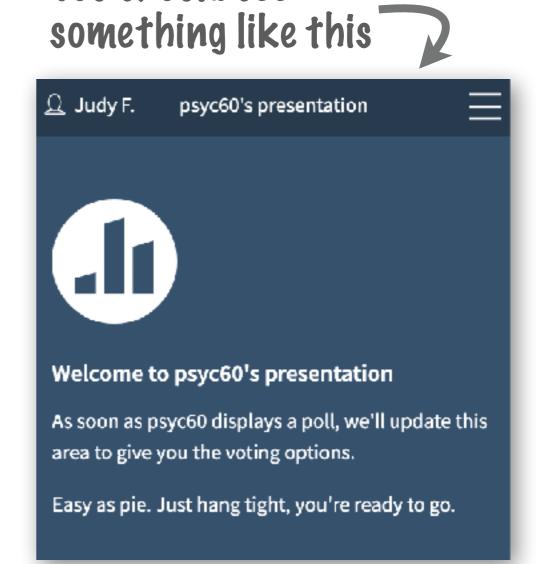
Everyone come back at 2:10pm PT

DEBRIEF

1. Open any web browser & type in this URL:

PollEv.com/psyc60

2. Make sure to log in to your account using your UCSD email & name as it appears in Canvas.



You should see

PSYC 60: Lab 5A | General Impressions

When survey is active, respond at pollev.com/psyc60

0 done

