STAT 2507

Lab 03

October 1st, 2019

Contact Information

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Labs:

Section C1 (Alia Alkhathami):	Tuesdays 2:35-3:25, HP 4385
Section B6 (Tanvir Quadir):	Tuesdays 3:35-4:25, HP 4385

Office Hours:

Section C1 (Alia Alkhathami):	Tuesdays / Thursdays 12-1, HP 4260
Section B6 (Tanvir Quadir):	Wednesdays 6-7, HP 4220

Math Tutorial Centre

- The math tutorial centre (MTC) opens on Friday, September 20th, and runs until Friday, December 6th
- Google “Carleton Math Tutorial Centre” to see full schedule (look for “P” and “S”)
- Mondays: 11-12:30 and 1-3
- Tuesdays: 10-3
- Wednesdays: 10-12:30 and 1-3
- Thursdays: 10-4
- Fridays: 11-3

Questions, Comments, Concerns

- If at any point during the semester you have any comments regarding the labs specifically, please feel free to use the following (anonymous, unless you choose to include your name):

https://forms.gle/YGvrNr7ePeVv8YR19

I will get an email to my phone whenever a response is submitted – feedback will be seen and taken into consideration promptly

- Examples of helpful feedback:
  - *Moving too quickly or too slowly*
  - *Talking too quickly or too slowly*
  - *Talking too quietly or too loudly*
  - *Font is too small or too big*

Today’s Lab

- Question 1 on assignment 2
- Time to work on remainder of assignment individually, feel free to ask questions

Describing a Scatter Plot

- Straight line, curved, random?
- Strong, moderate, or weak relationship?
- Are there any unusual observations?

Interpreting the Correlation Coefficient

- Sample correlation coefficient: r
- Population correlation coefficient: ρ
- Value of r close to 0 → weak relationship / random scattering of points
- Value of r close to 1 → strong positive linear relationship
- Value of r close to -1 → strong negative linear relationship
- When $r = 1$ or $r = -1$, all points lie exactly on a positive or negative straight line, respectively
- If the sample correlation coefficient is close to 0, we should not use the least squares regression line for prediction, as the relationship is weak.