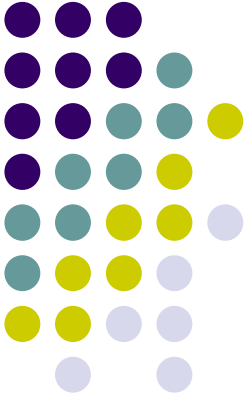
STAC67 (Regression Analysis)

Introduction



Welcome to STAC67!

- Instructor: Sohee Kang
- E-mail: sohee.kang@utoronto.ca
- Office: IC 483
- Online Office Hours:
  - Wednesday 10:00 am – 11:00 am
  - Thursday 4:00 pm-5:00 pm
- **TA information:**
  - Yao (Jenny) Li (yaojenny.li@mail.utoronto.ca)
  - Sudipta Saha (sudip.saha@mail.utoronto.ca)

Course Format

Type	Day	Time
Zoom Live Lecture	Wednesday	9 am – 10 am
	Thursday	2 pm – 4 pm

Required Textbook: Applied Linear Regression Models., 4th edition. Author(s): Kutner, M. H., Nachtstein, C. J., and Neter, J. (older version is perfectly fine!)

- WebLink for Data Sets and Solution Manual: http://www.cnachtsheim-text.csom.umn.edu

Sub-text: A Modern Approach to Regression with R (should be available on-line for free) Author: Simon J. Sheather

Computing

- Statistical computing is a key part of the class. In-class analysis will be conducted in R and all course material (code and data) is in R format. R is free and available for download at http://www.r-project.org
- Students are expected to write R codes and interpret R outputs on assignments, tests, and the exam, and know how to write R Markdown document for the final project.

Course Policy

Communication

- Check “Piazza” before you send an email!
- E-mail is appropriate for private communication.
- Lecture-related materials should be asked in Office hours of me and TAs

Tutorial

- Quizzes will be conducted in tutorial. You need to **turn on vides** so that TAs can invigilate quizzes.

Course Evaluation

Case Study and Presentation 15%
Assignments 15%
Quizzes 15%
Midterm Exam 20%
Final Exam 30%
Tutorial Attendance 5 %

Case study and Presentation

- Students will be required to work on a case study as a group and to submit a report. The size of the group is maximum of **FOUR**. You can choose your group members.
- For a report students will write R codes and interpret R outputs and will use R Markdown document in R studio.
- Each group will present the case study (5 minutes) at the last day of lecture.

More on Assignments

- All assignments are group-work (maximum number of two)
- Need to form a NEW group each time
- For unassigned students, I randomly assign to the group (after the deadline)

(Tentative) Weekly Schedule

	Week	Tutorial Activity
1	Jan. 11 – Jan. 15	No Tutorial
2	Jan. 18 – Jan. 22	How to make R Markdown File
3	Jan. 25 – Jan. 29	Simple Linear regression
4	Feb. 1 – Feb. 5	Assignment 1 deadline, Quiz1
5	Feb. 8 – Feb. 12	Simple linear regression diagnostic
6	Feb. 15 – Feb. 19	Reading week
7	Feb. 22 – Feb. 26	Assignment 2 deadline, Quiz2
8	Mar. 1 – Mar. 5	Multiple regression
9	Mar. 8 – Mar. 12	Multiple regression with Qualitative variables and/or polynomial model
10	Mar. 15 – Mar. 19	Assignment 3 deadline Quiz3
11	Mar. 22 – Mar. 26	Multiple regression diagnostic
12	Mar. 29 – Apr. 2	Multiple regression Model selection
13	Apr. 5 – Apr. 9	**Final Project Help Hour**

More on Assessment

- **Academic integrity** is essential to the pursuit of learning and scholarship in a university
- On tests and exams:
  - Using or possessing unauthorized aids.
  - Looking at someone else's answers during an exam or test **(communicating)**
  - **Misrepresenting your identity**
- **Assessments will be done in tutorials (TAs will invigilate using Zoom videos)**
- **You will be asked to TURN ON VIDEOS**

Oral Assessment

- If the instructor has a suspicion on your assessment result (the deviance is great) then I will conduct an oral assessment after. If the oral assessment result confirms the suspicion then the previous assessment score will be replaced to 0.
- Only conduct in suspicious cases.