

STAT 6750

Statistical Consulting

Autumn 2020

Instructor: Yuan Zhang

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Office Hours: Monday, 9:30 - 10:30, held online. Link will be announced on Carmen.

Grader: Lun Li

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Lectures: Monday and Wednesday 8:00 - 8:55. Campbell Hall 200.

Course text: The main course materials will be the lecture notes I will post along with each class meeting. I will also provide references as the course progresses.

Course Description: Statistics 6750 is a course on statistical consulting. As the texts mentioned above indicate, there are many aspects to consulting. There is, quite decidedly, no single route to effective consulting. Rather, different environments place more or less emphasis on one aspect or another of performance. Academics and government tilt toward a focus on applications and techniques; corporate environments tilt toward slick presentations. What is “best” is situation dependent. We will cover a variety of styles of consulting.

Course format: The instruction and learning of this course will be a mixture of lecturing and interactions. Be prepared to discuss examples and course materials. You will also be giving short presentations about some designated materials and your final project.

Course delivery: The course will be delivered by a mixture of online and in-person lectures. Details of the weekly schedule will be announced at the start of each week. You will be responsible for watching any live content or recorded videos and studying the material that is assigned. In addition to the lecture videos, assignments will be posted on the class website. You will be given ample time to complete the assignments. The instructor will hold weekly office hours via CarmenZoom. The times are given in the syllabus.

Course requirements: To receive a satisfactory grade in this course, you must

1. Attend at least 80% of the class meetings, online or (on designated dates) in person
2. Participate in the discussions in class
3. Turn in satisfactory written assignments
4. Have satisfactory performance on in-class presentations
5. Turn in (and present) a satisfactory final report

Final reports and presentations: The final report will be much grander than the homework exercises that you will turn in during the course. It can be one of the following

1. A statistical consulting project in which you are involved
2. A set of data that you have collected and analyzed

3. A critical review of the statistics in a journal article that you have read
4. A statistical topic that is new to you
5. A specialized piece of software or specialized statistical routine that is new to you

The length of the written report will depend on your choice of topic, but it should be in the neighborhood of six to eight pages. For reports that make heavy use of descriptive and inferential statistics and those that contain appendices, the total length of the report will naturally be longer.

In addition to the written report, you will give a presentation to the class. The length and style of the presentations will be determined once registration issues are settled. In addition to the presentation, expect a short question and answer period to follow. The presentations will take place during the last class meetings and (if necessary) the scheduled final exam period. You are expected to attend other students' presentations and to participate in the question and answer sessions.

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614-292-5766. CCS is located on the 4th Floor of the Younkun Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273-TALK or at suicidepreventionlifeline.org.

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu

The Ohio State University affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. We are committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among each member of our community; and encourages each individual to strive to reach his or her own potential. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.