Master's Project II

Semester/Year: Spring 2020

Class Location: 402 East 67th Street, CIA & C1B Conference Room

Meeting Times: Friday, 1:00pm – 3:00pm (11am to 1pm on 1/24 and 3/13)

Credit Hours: 2

Instructor: Paul J. Christos, Dr.P.H., M.S.

Contact Information:

Paul Christos (pac2001@med.cornell.edu), Tel: 646-962-8018

Kaylee Ho (kah4001@med.cornell.edu), Tel: 646-962-8024

Office Hours: By appointment

Grading: Letter Grading

Course Description: This course will introduce a combination of necessary skills for statistical consulting through lectures and small workshops. Guest lectures will be given from faculty in WMC, MSKCC, and other institutions on a variety of topics related to statistical consulting and collaboration. Relevant workshops will provide an in-class, hands-on experience.

Course Aims and Outcomes: The goal of this course is to equip students with the necessary skills to conduct statistical consulting, prepare statistical reports, and communicate with non-statistical collaborators. By the end of the course, the students should be able to complete a statistical consulting project.

Format and Procedures: We will have weekly lectures on various topics in statistical consulting. The majority of the lectures are guest presentations from biostatistics faculty at WMC, MSKCC, and other institutions. The tentative topics including power analysis, global health, scientific presentation, observational study design, etc. Faculty members will also share their own consulting experiences and career development strategies with the students. The remainder of the lectures will be in-class workshops related to the content of the guest lectures.

Course Requirements: Biostatistics I and Master's Project I.

Grading Policies:

1. Attendance and class participation: 40 points (40%); class attendance is mandatory, and unexcused absences will lead to a failure of the class.

2. There will be homework following each of the three "consultation practice" workshops (30%);

3. There will be a final project and presentation (30%).

This class adheres to Cornell University's grading criteria:

Letter	Point	GPA
A+	98-100%	4.3
A	93-97%	4
A-	90-92%	3.7
B+	88-89%	3.3
B	83-87%	3
B-	80-82%	2.7
C+	78-79%	2.3
C	73-77%	2
C-	70-72%	1.7
D	60-69%	1.3
F	Below 60%	0

Academic Integrity

Each student in this course is expected to abide by the Cornell University Code of Academic Integrity. Any work submitted by a student in this course for academic credit will be the student's own work. For this course, collaboration is allowed only on the final project and in-class group discussion.

You are encouraged to study together and to discuss information and concepts covered in lecture with other students. You can give "consulting" help to or receive "consulting" help from such students. However, this permissible cooperation should never involve one student having possession of a copy of all or part of work done by someone else, in the form of an e-mail, an e-mail attachment file, or a hard copy.

Should copying occur, both the student who copied work from another student and the student who gave material to be copied will both automatically receive a zero for the assignment. Penalty for violation of this Code can also be extended to include failure of the course and University disciplinary action.

Accommodations for Students with Disabilities

In compliance with the Cornell University policy and equal access laws, we are available to discuss appropriate academic accommodations that may be required for student with disabilities. Requests for academic accommodations are to be made during the first three weeks of the semester, except for unusual circumstances, so arrangements can be made. Students are encouraged to register with Student Disability Services to verify their eligibility for appropriate accommodations.

Inclusivity Statement

We understand that our members represent a rich variety of backgrounds and perspectives. The Biostatistics and Data Science Program is committed to providing an atmosphere for learning that respects diversity. While working together to build this community we ask all members to:

- share their unique experiences, values and beliefs
- be open to the views of others
- honor the uniqueness of their colleagues
- appreciate the opportunity that we have to learn from each other in this community
- value each other's opinions and communicate in a respectful manner
- keep confidential discussions that the community has of a personal (or professional) nature
- use this opportunity together to discuss ways in which we can create an inclusive environment in this course and across the Cornell community

Course Schedule

Date	Time	Topic	Presenter
1/10	1pm-3pm	How to be a Good Statistical Collaborator	Paul Christos, DrPH, MS Division of Biostatistics and Epidemiology
1/17	1pm-3pm	Graphs and Tables for Collaborators and in Scientific Publications	Jessica Ancker, PhD Division of Health Informatics
1/24	11am-1pm*	Observational Study Workshop	Martin Lesser, PhD Feinstein Institute for Medical Research, Northwell Health
1/31	1pm-3pm	The Practice of Data Management in Health Services Research	Mangala Rajan, MBA Division of General Internal Medicine
2/7	1pm-3pm	Statistical Applications in Global Health	Myung Hee Lee, PhD Center for Global Health, Department of Medicine
2/14	1pm-3pm	Workshop (consultation practice #1) *(Homework due 2/21)*	Paul Christos, DrPH, MS Division of Biostatistics and Epidemiology
2/21	1pm-3pm	Power Analysis	Roger Vaughan, DrPH, MS The Rockefeller University
2/28	1pm-3pm	Observational Study Design	Sunday Clark, PhD Department of Emergency Medicine
3/6	1pm-3pm	Workshop (consultation practice #2) *(Homework due 3/13)*	Paul Christos, DrPH, MS Division of Biostatistics and Epidemiology
3/13	11am-1pm*	Clinical Trial Workshop	Martin Lesser, PhD Feinstein Institute for Medical Research, Northwell Health
3/20	1pm-3pm	Workshop (consultation practice #3) *(Homework due 3/27)*	Paul Christos, DrPH, MS Division of Biostatistics and Epidemiology
3/27	1pm-3pm	Presentation Skills	Anjile An, MS Division of Biostatistics and Epidemiology
4/3	1pm-3pm	Final Project Presentation	Each student

***Note: Class time on 1/24 and 3/13 will be 11am to 1pm.**