

Syllabus

Seminar in Statistics I

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	Position	Assistant Professor			Major	Mathematics
	Group	Mathematics				

1. Course Description

A continuous course of Statistical data analysis 1 (categorical data analysis).

We plan to address the statistical techniques that have recently been widely used in relation to the logistic regression model for causal inference.

It deals with weighting methods, matching methods, etc. using propensity score.

Read the relevant papers and apply each technique to the actual data (using R).

2. Teaching Methods

Lecture, presentation, and discussion on specific topics in statistics.

3. Evaluation

Test 20%
Presentation or report 40%
Homework 20%
Attendance 20%

4. TextBooks

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5. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Introduction	강의	비대면 (Zoom)
2	Generalized linear model	강의	비대면 (Zoom)
3	Generalized linear model	강의	비대면 (Zoom)
4	Binomial logistic regression	강의	비대면 (Zoom)
5	Binomial logistic regression	강의	비대면 (Zoom)
6	Multinomial logistic regression	강의	비대면 (Zoom)
7	Multinomial logistic regression	강의	비대면 (Zoom)
8	test	중간지필평가	대면 예정 (추후 변동 가능)
9	Introduction to propensity score analysis	강의	비대면 (Zoom)
10	Inverse probability weighting (IPW) method using PS	강의	비대면 (Zoom)
11	Inverse probability weighting (IPW) method using PS	강의+발표수업	비대면 (Zoom)
12	Matching method using PS	강의	비대면 (Zoom)
13	Matching method using PS	강의+발표수업	비대면 (Zoom)
14	Stratification method using PS	강의	비대면 (Zoom)
15	Stratification method using PS	강의+발표수업	비대면 (Zoom)
16	test	보고서 평가	대면 예정 (추후 변동 가능)

6. Others