鈴木 拓

1. 授業の概要(ねらい)

This course will offer the opportunity to study the statistics from the basics to intermediate. It consists of two parts and each part is taught by one of following two professors; Taku SUZUKI and Shiho YUKAWA.

Statistics is used in various fields, it is important to understand the basic statistics.

In the lectures, we will study the fundamental statistics, data visualization, and inferential statistics.

Furthermore, to understand the real data analysis, we will also study several methods of regression analysis.

2. 授業の到達目標

Understand

- the fundamental statistics and its application for basic data analysis,
- the method of the visualization of data,
- the regression analysis.
- the methods of statistical hypothesis testing

3. 成績評価の方法および基準

The following percentage breakdown will constitute your final grade.

Participation (45%): Each participation is counted as 3% of your whole performance.

Exercises (55%): Exercises as Term Exam are to be held at the end of each part. 20% and 35% is assigned to part I (Suzuki) and part II (Yukawa), respectively.

4. 教科書·参考文献

数科書

Each professor distributes course materials.

5. 準備学修の内容

Review of each lecture is very important.

Introduction

Homework will be assigned several times. You must do the homework by next lecture.

6. その他履修上の注意事項

It is desirable to check the course materials beforehand if you think your preparation is not enough.

7. 授業内容 【第1回】

【第2回】	F distribution and review of other distribution
【第3回】	Statistical hypothesis testing (1) One sample problems
【第4回】	Statistical hypothesis testing (2) Two sample problems
【第5回】	Statistical hypothesis testing (3) Test for variance and other
【第6回】	Review and Exercise(1)
【第7回】	Review of statistics III
【第8回】	Essence of econometrics (1) What is econometrics
【第9回】	Essence of econometrics (2) What is econometrics
【第10回】	Essence of econometrics (3) OLS
【第11回】	Essence of econometrics (4) Squared term
【第12回】	Essence of econometrics (5) Interaction term
【第13回】	Essence of econometrics (6) Dummy variable
【第14回】	Essence of econometrics (7) Dummy variable
【第15回】	Review and Exercise(2)