FORK 1002 Preparatory Course in Statistics:

0 Introduction

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(Last updated: 1 August 2017)

FORK 1002 Preparatory Course in Statistics:

- Lecturer: Genaro Sucarrat (genaro.sucarrat@bi.no)
- Resarch: Research methodology, statistics and financial econometrics, financial economics, macroeconomics
- Teaching: Research methodology, statistics and econometrics
- No exam, no formal requirements – ENJOY!
- Webpage: http://www.sucarrat.net/teaching/fork1002/h2017/

Course outline:

0 Introduction: Practical info, overview

1 Key Concepts and Basic Statistics
   – Key Concepts
   – Descriptive Statistics
   – Frequency and Probability Distributions
   – Hypothesis Testing
   – P-Values
   – Interval Estimation

2 Regression Analysis
   – Bivariate Correlation Analysis
   – Simple Regression
   – Estimation and Goodness of Fit
   – Hypothesis Testing with the t-Test
   – Multiple Regression
   – Hypothesis Testing with the F-test

3 Qualitative Explanatory Variables
   – Motivation: Qualitative vs. Quantitative Variables
   – Dummy or Binary Variables
   – Combining Qualitative and Quantitative Variables

Recommended Reading:

In English:

- Groebner, Shannon, Fry and Smith: *Business Statistics: A Decision-Making Approach*, Pearson
- Andy Field: *Discovering Statistics Using SPSS*, Sage
- Damodar Gujarati: *Econometrics by Example*, MacMillan

In Norwegian:

- Jan Ubøe: *Statistikk for økonomifag*, Gyldendal
- Genaro Sucarrat: *Metode og økonometri*, Fagbokforlaget

Survey (anonymous): 5 questions

- Q1: When do you usually wake up in the morning? For example 5:03
- Q2: How long (in minutes) does it take from you wake up until you leave your house?
- Q3: What is the average total time it takes you (in minutes) to get to school (i.e. BI)?
- Q4: What is your main means of transport to school?
    - 1: Public transport (e.g. metro, bus, tram or train)
    - 2: Walking and/or rolling (e.g. bicycling, skateboard, etc.)
    - 3: Car or motorbike
    - 4: Other
- Q5: I am a:
    - 1: Woman
    - 2: Man