Biostatistics Meet-and-greet

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7 October 2021

ACIBADEM
MEHMET ALİ AYDINLAR
ÜNİVERSİTESİ

Ege Ülgen

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- Office: Block A, 6th floor (Dept. of Biostatistics and Medical Informatics)
- Office hours: by appointment

Lecture Notes and Scripts

- Available on GitHub:

https://github.com/egeulgen/BB503_BB602_21_22

Syllabus

Week 1 – Descriptive statistics and exploratory analysis

Week 2 – Descriptive statistics and exploratory analysis

Week 3 – Probability, conditional probability, Bayes theorem

Week 4 – Discrete statistical distributions

Week 5 – Continuous statistical distributions

Week 6 – Statistical inference

Syllabus (cont.)

Week 7 – Hypothesis tests

Week 8 – Hypothesis tests

Week 9 – Hypothesis tests

Week 10 – Multiple testing correction

Week 11 – Missing data and sampling methods

Week 12 – Linear regression

Week 13 – Generalized linear models

Week 14 – Computational methods: bootstrap, jack-knife, cross-validation

Course Evaluation

- Mid-term I – 25%
- Mid-term II – 25%
- Final exam – 35%
- Homework – 15%

Software

Reference Reading

- Sheldon Ross (2010) Introductory Statistics, Academic Press, 3rd edition
- Sheldon Ross (2012) A First Course in Probability, Pearson, 9th edition.
- Peter Daalgard (2008) Introductory Statistics with R, Springer Verlag, 2nd edition.
- Roger Peng (2016) R Programming for Data Science.
  - Buy it at any price at https://leanpub.com/rprogramming