Biostatistics (MATH11230)

Vanda Inácio

University of Edinburgh



Semester 1, 2022/2023

General information

- → Email: vanda.inacio@ed.ac.uk
- → Office: 4601, JCMB.
- ← Lectures and location: Tuesday, 14.10–16.00 (there will be a 10 min. break from 15.00 to 15.10), 5326, JCMB.
- \hookrightarrow Workshops: Tuesday, 17.10–18.00, on odd weeks (weeks 3, 5, 7, 9, and 11), 5326, JCMB.

General information

- → Office hours: Thursday, 10.00–11.00, week 1–11.
- The first half of the office hours, 10.00−10.30, will be on Zoom, and the second half, 10.30−11.00, will be on my office.

https://ed-ac-uk.zoom.us/j/84682858682

Meeting ID: 846 8285 8682

Passcode: EG4XbV1e

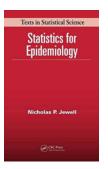
Assessment

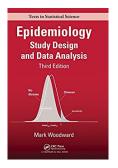
- → **Exam** (in December) worths 80% of the final mark.
- → There will be three assignments:
 - → Assignment 1 counts 5% towards the final mark. It will be released on week 3/4
 and solutions are to be handed in on week 5 (Friday at 4 pm).
 - → Assignment 2 counts 5% towards the final mark. It will be released on week 6/7 and solutions are to be handed in on week 8 (Friday at 4 pm).
 - Assignment 3 counts 10% towards the final mark. It will be released on week 9/10 and solutions are to be handed in on week 11 (Friday at 4 pm).

Bibliography

Covers from amazon.co.uk

→ All three books are available on the course resources list, under the library resources list tab on Learn.







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Software

 \hookrightarrow We will use R in this course.



Image from www.r-project.org

→ Rstudio is a nice and useful interface.



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Scope

- → We will study a variety of concepts and techniques used in biomedical and epidemiological research.
- \hookrightarrow Topics to be covered may include:
 - Measures of disease occurrence and of disease-exposure association.
 - Study designs.
 - Stimation and inference for measures of association.
 - 4 Causal inference, confounding, and interaction.
 - Unconditional and conditional logistic regression.
 - 6 Analysis of survival data.
 - Diagnostic testing (if time permits).

