COURSE DETAIL

COMPUTATIONAL BIOLOGY
Country United Kingdom - England
Host Institution University College London
Program(s) University College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Computer Science
UCEAP Course Number 145
UCEAP Course Suffix
UCEAP Official Title COMPUTATIONAL BIOLOGY
UCEAP Transcript Title COMPUTATIONAL BIO
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces students to advanced statistics, applied to the biological sciences. It introduces more advanced linear and generalized linear models, as well as approaches to model building and comparison. It also covers applications of linear models to large-scale genomic data, programming, permutation-based tests, power analysis and multivariate statistics. In addition to providing the theoretical background of the approaches covered, the course puts much emphasis on practical implementation. Lectures are accompanied by weekly practical sessions in which students will work through analyses in the statistical software R, the standard in much of biological computing.

Language(s) of Instruction
English

Host Institution Course Number
BIOL0029

Host Institution Course Title
COMPUTATIONAL BIOLOGY

Host Institution Course Details
https://www.ucl.ac.uk/module-catalogue/modules/computational-biology-BIOL0029

Host Institution Campus
University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biosciences

Course Last Reviewed
2022-2023

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