Doctoral Programme in Epidemiology - courses spring semester 2022

Courses are given on four levels (1-4), from introductory to more advanced.

Biostatistics II: Logistic regression for epidemiologists (level 2)

Dates: 2022-01-10 – 2022-01-17, 1.5 HEC, course code 5519
The course introduces statistical methods for the analysis of categorical outcome data.
Course leader: Rino Bellocco

Biostatistics III: Survival analysis for epidemiologists (level 3)

Dates: 2022-02-07 – 2022-02-16, 1.5 HEC, course code 3142
This course focuses on the application of survival analysis methods to epidemiological studies. The statistical software Stata will be used in the course.
Course leader: Therese M-L Andersson

Epidemiology I: Introduction to epidemiology (level 1)

Dates: 2022-02-14 – 2022-02-23, 1.5 HEC, course code 3128
The aim of the course is to give an introduction to epidemiological theory and practice.
Course leader: Giorgio Tettamanti

Causal inference: emulating a target trial to assess comparative effectiveness (level 4)

Dates: 2022-03-21 – 2022-03-23, 1.5 HEC, course code 3046
This course focuses on a general framework for the assessment of comparative effectiveness and safety research, which can be applied to both observational data and randomized trials.
Course leader: Anthony Matthews

Design and analysis of twin and family-based studies (level 4)

Dates: 2022-03-28 – 2022-04-21, 1.5 HEC, course code 2893
This course focuses on potential designs and analyses using twin- and family-data. Methods to estimate within-family associations and heritability are covered.
Course leader: Ralf Kuja-Halkola

Introduction to R (level 2)

Dates: 2022-03-28 – 2022-04-08, 1.5 HEC, course code 2958
The purpose of this course is to introduce students to using the R statistical software to perform basic to intermediate statistical data analysis in a replicable manner.
Course leader: Alexander Ploner

Biostatistics I: Introduction for epidemiologists (level 1)

Dates: 2022-04-06 – 2022-04-26, 3.0 HEC, course code 3042
The aim is to introduce classical statistical concepts and methods with emphasis on methods for continuous outcome data
Course leader: Matteo Bottai

An introduction to genetic and molecular epidemiology (level 2)

Dates: 2022-04-27 – 2022-05-06, 1.5 HEC, course code 3077
The course focuses on basic concepts, methods, and study design in genetic and molecular epidemiology research.
Course leader: Ida Karlsson

Introductory course in SAS programmingv (level 1)

Dates: 2022-05-09 – 2022-05-13, 1.5 HEC, course code 3143
The aim is to introduce fundamental SAS programming language for use in database handling and preparation for analyses. Further, the aim is to introduce the student on how to use statistical procedures in SAS, with focus on descriptive statistics.
Course leader: Susanne Wicks

Fundamentals of statistical modeling (level 4)

Dates: 2022-05-16 – 2022-05-20, 1.5 HEC, course code 2959
The purpose of this advanced course is to provide an introduction to the tools of statistical modeling.
Course leader: Matteo Bottai

Epidemiology II. Design of epidemiological studies (level 2)

Dates: 2022-05-16 – 2022-05-25, 1.5 HEC, course code 3138
The course focuses on key considerations in designing and critically interpreting different types of case-control studies, as well as matching in cohort and case-control studies.
Course leader: Karin Leander

Applied longitudinal data analysis (level 4)

Dates: 2022-05-24 – 2022-06-03, 2.5 HEC, course code 2798
The course gives an introduction to modern methods for the analysis of longitudinal and repeated measures studies which are commonly used in epidemiological studies and in clinical trials.
Course leader: Rino Bellocco

Epidemiology III. Analysis and interpretation of epidemiological data (level 3)

Dates: 2022-05-24 – 2022-06-01, 1.5 HEC, course code 3129
The purpose of the course is to familiarise the student with principles for epidemiological data analysis and critical interpretation of study results.
Course leader: Anita Berglund