Doctoral Programme in Epidemiology - courses spring semester 2021

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

Epidemiology I: Introduction to epidemiology (level 1)

Dates: 2021-01-13 – 2021-01-22, 1.5 HEC, course code 3041
The aim of the course is to give an introduction to epidemiological theory and practice.
Course leader: Zheng Chang

Biostatistics II: Logistic regression for epidemiologists (level 2)

Dates: 2021-01-25 – 2021-02-02, 2.0 HEC, course code 3043
The aim is to introduce statistical methods for categorical outcome data.
Course leader: Rino Bellocco

Biostatistics III: Survival analysis for epidemiologists (level 3)

Dates: 2021-02-08 – 2021-02-17, 1.5 HEC, course code 3142
This course focuses on the application of survival analysis methods to epidemiological studies.
Course leader: Mark Clements

Causal inference for epidemiological research (level 3)

Dates: 2021-03-08 – 2021-03-12, 1.5 HEC, course code 2416
This course aims to present causal theory and introduces how concepts and methods can be understood within a general methodological framework.
Course leader: Arvid Sjölander

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

Dates: 2021-03-22 – 2021-03-24, 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: Miguel Hernán

Biostatistics I: Introduction for epidemiologists (level 1)

Dates: 2021-04-07 – 2021-04-27, 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

Introduction to R (level 2)

Dates: 2021-04-12 – 2021-04-21, 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

[Application of epidemiological methods in aging research](#) (level 2)

Dates: 2021-04-26 -- 2021-04-30, 1.5 HEC, course code 3131
The aim of the course is to critically review epidemiological methods with applications to aging research. [The course is arranged in collaboration between the Epidemiology and Neuroscience Programmes](#).
Course leader: Amaia Calderon Larrañaga

[Introductory course in SAS programming](#) (level 1)

Dates: 2021-05-03 – 2021-05-07, 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: 2021-05-10 – 2021-05-18, 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 III. Analysis and interpretation of epidemiological data](#) (level 3)

Dates: 2021-05-20 – 2021-05-27, 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

[Epidemiology II. Design of epidemiological studies](#) (level 2)

Dates: 2021-06-02 – 2021-06-11, 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