



## **Doctoral Programme in Epidemiology - courses spring semester 2019**

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

### **Biostatistics II: Logistic regression for epidemiologists** (level 2)

Dates: 2019-01-30 -- 2019-02-06, 2.0 HEC, course code 3043

This course focuses on the application of linear and logistic regression in the analysis of epidemiological studies.

Course leader: Rino Bellocco

### **Epidemiology I: Introduction to epidemiology** (level 1)

Dates: 2019-02-04 -- 2019-02-13, 1.5 HEC, course code 3078

The aim of the course is to give an introduction to epidemiological theory and practice.

Course leader: Andreas Lundin

### **Biostatistics III: Survival analysis for epidemiologists (using Stata)** (level 3)

Dates: 2019-02-11 -- 2019-11-20, 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: 2019-03-11 – 2019-03-20, 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: Yudi Pawitan

### **Biostatistics I: Introduction for epidemiologists** (level 1)

Dates: 2019-03-27 -- 2019-04-12, 3.0 HEC, course code 3042

The aim is to introduce classical statistical concepts and methods with emphasis on methods used in epidemiology and public health.

Course leader: Matteo Bottai

### **Introduction to R** (level 2)

Dates: 2019-04-01 -- 2019-04-05, 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: 2019-04-01 -- 2019-04-05, 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

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

Dates: 2019-04-15 -- 2019-04-17, 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. Pre-course reading is required.

Course leader: Miguel Hernán

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

Dates: 2019-05-08 -- 2019-05-17, 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

## **Introductory course in SAS programming** (level 1)

Dates: 2019-05-13 -- 2019-05-17, 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: 2019-05-20 -- 2019-05-24, 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: 2019-05-27 -- 2019-06-05, 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