

SUMMER SCHOOL

DURATION
4 Days

DATES
September 9th -13th,
2018

CREDITS
2 ECTS

TUITION
Covers all teaching
materials, bus transfer,
hotel accommodation
and meals from dinner
the 9th of September
to breakfast the 14th
of September
•General participant:
1400 €
•PhD student: 1100 €
•IBS/SISMEC/ISCB
member 1300 €

LOCATION
Ponte di Legno,
Brescia (ITALY)

University of Milano-Bicocca

STATISTICALPS: *Summer course on medical statistics...in the Alps - 8th edition*

Extended use of regression models for new epidemiologic designs and analyses

COURSE DESCRIPTION



The overall aim of this course is to present approaches to statistical design and analysis that enable researchers to design more efficient epidemiological studies and to better utilize available data from well-defined cohorts (such as those deriving from national health registers, electronic medical records or clinical studies).

The course will compare and contrast different sampling designs and the various parameter estimates they can yield by careful “reconstruction” of the underlying cohort or extensions to the regression models used. In particular, the course will show how variations of the case-control design can produce efficient and unbiased estimates of the hazard ratio and other quantities, and how the concepts of matching from classical epidemiological studies can be extended to studies of continuous outcomes.

The course will demonstrate the application of these methods in designing studies that make efficient use of costly data and conduct more flexible and informative analysis.

Lectures will be interspersed with tutorials consisting of exercises, “journal club” sessions and workshops. In the workshops, participants may (i) develop and refine a study designed to address a clinical/epidemiological research question or (ii) implement various method(s) on their own data in a supervised laboratory session.



INSTRUCTORS

Prof. Marie Reilly, Dept. of Medical Epidemiology and Biostatistics Karolinska Institutet,
Prof. Chuen Seng Tan, Saw Swee Hock School of Public Health, National University of Singapore,

PREREQUISITES

Knowledge of epidemiologic designs, logistic regression and survival analysis.

REQUIRED DOCUMENTS TO BE UPLOADED IN THE APPLICATION FORM

If a VISA is needed Passport/ID card.

For PhD students a letter from the supervisor. To apply for the scholarship a CV and a motivation letter describing your PhD project and how it relates to the topic of the course are also required.

SCHOLARSHIP

The Doctoral School of the University of Milano-Bicocca will provide one scholarship for participation of a PhD student. To apply, please, upload your CV and a short letter (max 200 words) describing your PhD project and how it relates to the topic of the course by 15 May 2018. "

TARGET AUDIENCE

Epidemiologists and biostatisticians.

INFO

statisticalps@unimib.it

Admission criteria

Each Summer School Program has different Admission Criteria, although General Criteria for all Summer Programs are as follows:

- Applicants should be 18 years old or over
- Applicants should have completed at least one year of college or be enrolled in the first-year

English language proficiency

English proficiency is required for all summer school programs offered by University of Milano-Bicocca.

Though we don't ask for a formal English certification, what we expect is:

- Your oral comprehension and expression must be sufficient for effective class participation.
- Your reading comprehension and writing skills must be sufficient to respond clearly and accurately for course assignments
- Your comprehension and communication skills must be sufficient for individual/group interaction