



BIOSTATISTICS

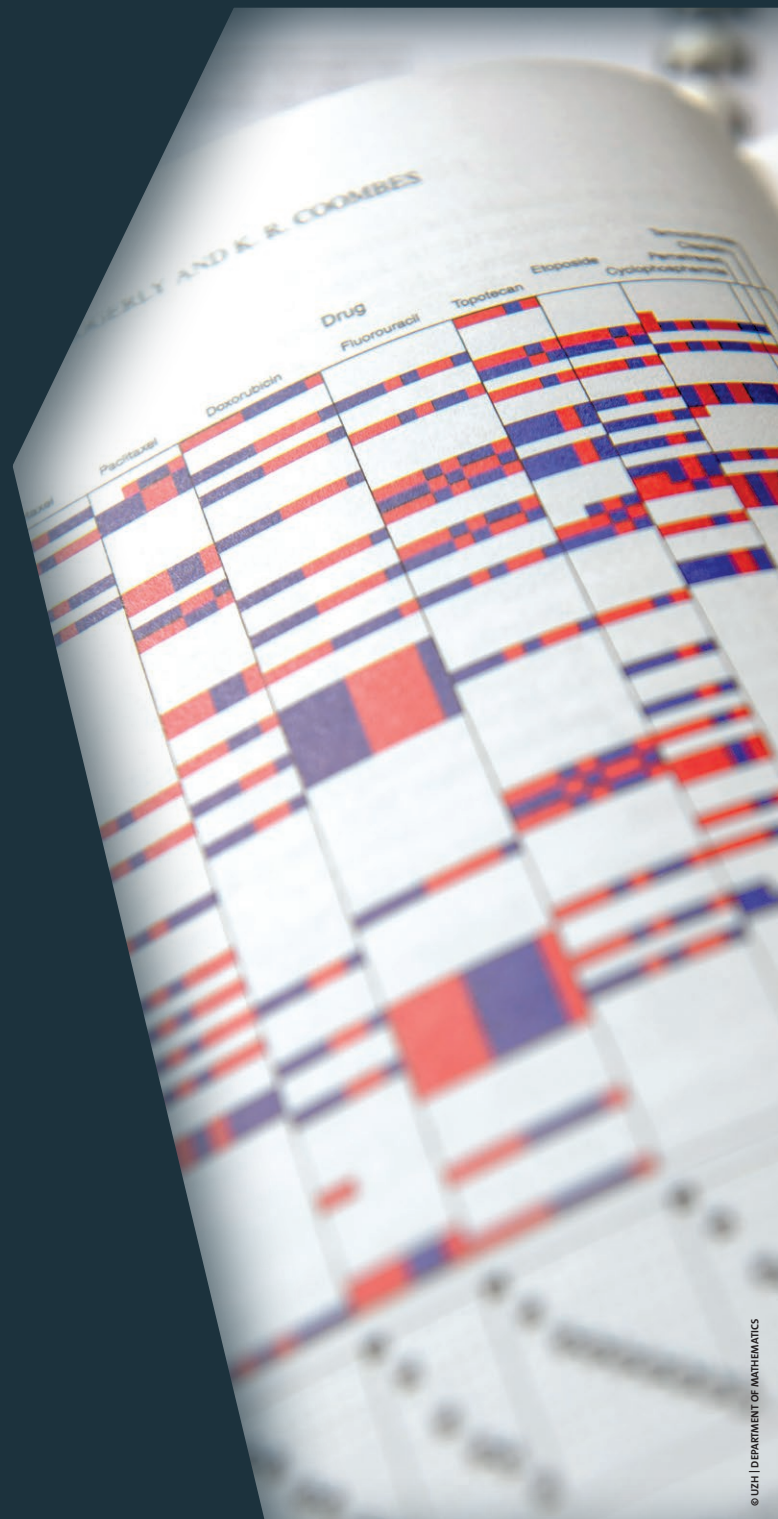
SPECIALIZED
MASTER

Biostatistics is the science of analyzing and interpreting biomedical data. Scientific challenges from clinical and biological research require the development and competent application of novel statistical methodology. Currently such challenges emerge, for example, in personalized and evidence-based medicine, in infectious disease and environmental epidemiology, and in the rapidly expanding fields of molecular biology, e.g. genomics, proteomics, epigenomics.

GOALS OF PROGRAM

As a specialized master program, the Master Program in Biostatistics is a useful continuation of a BSc degree in all fields that include quantitative aspects, e.g. mathematics, biology, psychology etc. Students with a pronounced affinity to quantitative techniques and interest in acquiring state-of-the-art problem solving skills for research in the life sciences are invited to apply.

The program is based on the cooperation of the Institute of Mathematics of the Faculty of Science and the Epidemiology, Biostatistics and Prevention Institute of the Faculty of Medicine. This broad basis allows to provide a classical training in biostatistics, a vast perspective on statistical methods and challenges in the life sciences as well as critical thinking and efficient communication skills.



90 MAJOR

30 MINOR

MAX. 120 ECTS

90 MONO

ECTS

PROFESSIONAL PERSPECTIVES

Career outlooks for biostatisticians are generally excellent, as for statisticians and data scientists in general. Graduates of the program will be highly qualified for a specialized occupation at universities or research institutes and in the pharmaceutical industry. Moreover, financial institutions, insurance and marketing companies, other corporations with research and development departments as well as consulting firms regularly seek to hire (bio)statisticians.

A Master's degree in biostatistics allows to continue with doctoral studies in, e.g. biostatistics, epidemiology, bioinformatics etc. At the University of Zurich the PhD program in Epidemiology and Biostatistics is closely linked to the Master Program in Biostatistics.

ADMISSION

Two-step application procedure:

- 1) application to the admission committee: no fee, non-legalized copies of documents, required are application form, motivation letter, CV, transcripts, BSc degree description, finance plan and letter of recommendation. Admission may be with additional requirements as detailed in the prerequisites
- 2) only if selected by the admission committee: application to the Admissions Office including application fee, legalized copies or originals

SPECIALIZED MASTER: BIOSTATISTICS

MONO
90
ECTS

MAJOR
90
ECTS

MASTER STUDY PROGRAM

Compulsory lectures provide theoretical foundations and their applications within biomedical research as well as a practical introduction to the statistical methods in clinical research and epidemiology. The Statistical Consulting module offers in-depth insights into the practice of a biostatistician. Students work on real consulting problems under supervision of an

experienced biostatistician. Together with the Biostatistics Journal Club it is a preparation for the Master's thesis, which is an independent research activity and can involve collaborators from other disciplines.

Elective lectures complement the required 90 ECTS further extending knowledge of (bio)statistical methods.

POSSIBLE MINOR COMBINATIONS

30 MINOR
ECTS

The best suited minor programs to combine with the Master Program in Biostatistics:

- Bioinformatics
- Biodiversity
- Neuroinformatics

CONTACT

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CONTACT