

Practical Introduction to the Statistical Computing Environment R

This is a one-semester course of the University of Zurich. Interested students from other Universities need to sign as a guest student with the University of Zurich. Please find all information under "Registration".

Description & Objectives

Introduction to the basics of using R with practical hands-on application for descriptive statistics and visualization of example data. Application of classical statistical methods in R, e.g. hypothesis testing, simple regression. First initiation to programming techniques in R: basic elements and principles of the language, functions, good coding practices etc.

Students will have the opportunity to practice all contents immediately on a computer.

The aim of this course is to gain independence in using R for standard statistical analyses, ability to independently use other statistical methods in R and getting ready to start programming in R.

Prerequisites

- Basic knowledge of statistics
- Computer literacy

Target Audience

- PhD Students of SSPH+ Public Health Program and related Graduate Schools and Programs
- Master Students in Biostatistics or Mathematics of the University of Zurich

Only a limited number of places available. Priority is given to Students in Biostatistics of the University of Zurich.

Recommended Reading

A Handbook of Statistical Analysis Using R by Brian S. Everitt and Torsten Hothorn, 2010, second edition, CRC Press

Date

9 – 13 September 2013

Assessment

none

Credits

No credits will be offered.

This is a preliminary workshop to prepare students for statistical trainings where R software is prerequisite, e.g.: "Statistical Methods in Epidemiology" or "Statistical Methods in Clinical Research"

PhD Program Management:

Academic Lead Prof. Charlotte Braun-Fahrländer
Program Coordination Dr. Sina Henrichs

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PhD Program Public Health



Language	Teaching is in English
Lecturer	<u>Professor Torsten Hothorn</u> (Institute of Social and Preventive Medicine, University of Zurich)
Location	Institute of Mathematics, Winterthurerstrasse 190, 8047 Zurich, Hörsaal Y27H52, Map
Registration	Register via Email to Dr. Eva Furrer (eva.furrer@ifspm.uzh.ch) including information on the main field of study.
Deadline	31 July 2013



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