

Introduction to the Statistical Software R

Description

This course is a practical introduction to R, a free open-source software environment for statistical computing. Besides an introduction into the software, the following topics will be covered: data import and export, data manipulation, statistical analysis, graphical representation and advanced programming concepts as conditional branching and loops. Students should bring their own laptop for the practical work.

In contrast to other statistical software solutions, R is designed around a true computer language. This has the implication that R is characterized by an enormous flexibility that enables the user to perform sophisticated statistical procedures or simulations. R might be less intuitive to scientists without prior programming skills. However, there are some tools available to make the user's life easier as graphical user interfaces and editors with syntax highlighting.

Participants should have basic statistical knowledge. Programming skills are not required.

Objectives

By the end of this 2 day course, students will be able to use R for statistical analysis and graphical representation. They will be aware of the common mistakes and will get familiar with additional tools to use R more efficiently.

Dates

February 9 and 10, 2016

Eligibility

Open to PhD students of SSPH+ public health program; other students and external participants are welcome to apply for limited spaces.

Participants must bring their own laptops.

Course Structure

Lessons and practical exercises.

Assessment

Active participation in the exercises, homework assignment.

Credits

0.75 ECTS

Preliminary Work: 1 h, Contact: 14 h, Wrap-Up Work: 7 h

1 ECTS corresponds to appr. 30 hours' work

PhD Program:

Program Coordination Ann Walser

Academic Lead Prof. Matthias Egger
Prof. Thomas Abel
Dr. Nicole Bender

Contact:

Address

ISPM Bern
Finkenhubelweg 11, CH-3012 Bern

Telephone

+41 31 631 34 04

Email

phdph@ssphplus.ch

Website

www.sspplus-phd.ch



PhD Program Public Health



Facilitators	Dr. Jan Hattendorf, Swiss Tropical & Public Health Institute								
Location	Swiss Tropical & Public Health Institute, Socinstr. 55a, 4002 Basel, Seminar Room 3 (map)								
Course Fees	<table><tr><td>SSPH+ PhD Students</td><td>0.—</td></tr><tr><td>Other PhD students</td><td>225.—</td></tr><tr><td>Other academics</td><td>637.50</td></tr><tr><td>Others</td><td>937.50</td></tr></table>	SSPH+ PhD Students	0.—	Other PhD students	225.—	Other academics	637.50	Others	937.50
SSPH+ PhD Students	0.—								
Other PhD students	225.—								
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Registration	Please register online on our website								
Deadline	January 9, 2016								
Max. Attendance	18 (preference is given to SSPH+ PhD Students)								

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Contact:

Address ISPM Bern
Finkenhubelweg 11, CH-3012 Bern
Telephone +41 31 631 34 04
Email phdph@sspplus.ch
Website www.sspplus-phd.ch