Applied Logistic Regression

Facilitator

Prof. Stanley Lemeshow, PhD, MSPH
Professor, Division of Biostatistics
College of Public Health
The Ohio State University
Columbus, OH, USA

PD Dr. Ben Spycher, PhD
Institute of Social and Preventive Medicine, University of Bern

Description

This course provides theoretical and practical training on the popular logistic regression model, which has become the standard analytical method for use with a categorical response variable. This is a hands-on, applied course where students will become proficient at using computer software (Stata or R) to analyze data drawn from the fields of medicine, epidemiology, and public health.

Objectives

By the end of this course, students should:

- master methods of statistical modeling when the response variable is binary.
- be confident users of Stata or R computing binary logistic regression models.

Dates

10 – 14 October 2022

Eligibility

PhD students and Epidemiologists and professionals in public health, medicine, and related disciplines that utilize statistical modeling
### Course Structure
This course includes lectures as well as many practical examples, exercises and homework. Exercises will use the Stata software package. Access to Stata will be provided at no cost for the duration of this course. Support will also be provided for R users. On the first day we will review basic statistical concepts and linear regression (taught by PD Dr. Ben Spycher, ISPM Bern).

### Assessment
- Daily quizzes
- Multiple choice test on day 5

### Credits
- **2 ECTS**
  - Preparation work: 8 h
  - Contact: 5x5 h
  - Computer lab: 5x2 h
  - Home-work during the course: 5 h
  
  (1 ECTS corresponds to appr. 25-30 hours workload)

### Location
University Bern, room tba

### Course Fees
<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>SSPH+ PhD Students</td>
<td>30.-</td>
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<tr>
<td>PPHS PhD Students</td>
<td>30.-</td>
</tr>
<tr>
<td>External MD/PhD Students</td>
<td>600.-</td>
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<tr>
<td>External Academics</td>
<td>1700.-</td>
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<tr>
<td>Other Participants</td>
<td>2500.-</td>
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</tbody>
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(The cost scheme depends on the Number of ECTS. Per ECTS participants are asked to pay 300,- CHF, 850,- CHF or 1250,-CHF, respectively)

### Registration
[https://www.conftool.com/ssph-phd-courses2022](https://www.conftool.com/ssph-phd-courses2022)

### Deadline for Registration
10 September 2022

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Ann Walser  
Graduate Campus Manager  
awlser@ssphplus.ch  
+41 31 631 58 94  
[https://ssphplus.ch/en/graduate-campus](https://ssphplus.ch/en/graduate-campus)