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
9 – 13 March 2020

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

(ECTS corresponds to appr. 25-30 hours workload)

### Location
University Bern, Hallerstrasse 6, room 205

### Course Fees
<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>SSPH+ PhD Students</td>
<td>30.- CHF (processing fee)</td>
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<tr>
<td>PPHS PhD Students</td>
<td>30.- CHF (processing fee)</td>
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<tr>
<td>External MD/PhD Students</td>
<td>600.- CHF</td>
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<tr>
<td>External Academics</td>
<td>1700.- CHF</td>
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<tr>
<td>Other Participants</td>
<td>2500.- CHF</td>
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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
[Please register online on our website](https://ssphplus.ch/en/graduate)

### Deadline
9 February 2020