

# 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

<b>Course Structure</b>	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)								
<b>Assessment</b>	Daily quizzes Multiple choice test on day 5								
<b>Credits</b>	<b>2 ECTS</b> 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)								
<b>Location</b>	University Bern, room tba								
<b>Course Fees</b>	<table><tr><td>SSPH+ PhD Students</td><td>30.- CHF (processing fee)</td></tr><tr><td>External MD/PhD Students</td><td>600.- CHF</td></tr><tr><td>External Academics</td><td>1700.- CHF</td></tr><tr><td>Other Participants</td><td>2500.- CHF</td></tr></table> <p>(The cost scheme depends on the Number of ECTS. Per ECTS participants are asked to pay 300,- CHF, 850,- CHF or 1250,-CHF, respectively)</p>	SSPH+ PhD Students	30.- CHF (processing fee)	External MD/PhD Students	600.- CHF	External Academics	1700.- CHF	Other Participants	2500.- CHF
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<b>Registration</b>	<a href="https://www.conftool.com/ssph-phd-courses2022">https://www.conftool.com/ssph-phd-courses2022</a>								
<b>Deadline for Registration</b>	<b>10 September 2022</b>								