

# Student Supervision & Teaching

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Biostatistician

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## THESIS AND INTERN SUPERVISION:

Li, K. (2018). *Optimism-corrected treatment effect estimates in subgroups displayed in forest plots for time-to-event outcomes*. Master thesis to obtain Master in Biostatistics, University of Zurich. Initiated within three month full-time internship at Roche Oncology Biostatistics, Basel. Co-supervised with Marcel Wolbers. Academic supervisor: Prof. Torsten Hothorn, University of Zurich.

Meller, M. (2016). *Joint Modelling of Overall Survival and Progression Free Survival*. Master thesis to obtain Master in Biostatistics, University of Ulm. Initiated within four month full-time internship at Roche Oncology Biostatistics, Basel. Academic supervisor: Prof. Jan Beyersmann, University of Ulm. Winner of the Bernd Streitberg Award 2018 of the German Region of the International Biometric Society.

Hebeisen, M. (2014). *Estimation from Interval-censored Time-to-event Data: Method Comparison by Simulation based on GALLIUM Study for Follicular Lymphoma*. Master thesis to obtain Master in Biostatistics, University of Zurich. Prepared within seven month full-time internship at Roche Oncology Biostatistics, Basel. Academic supervisor: Prof. Torsten Hothorn, University of Zurich. download thesis

Hubeaux, S. (2013). *Analysis of time-to-event data with interval- or left-censored covariates*. Six month full-time internship at Roche Oncology Biostatistics, Basel.

Boutellier, P. (2013). *What does a PSA bounce look like? A numerical and graphical description of the prostate-specific antigen (PSA) bounce phenomenon in patients treated for prostate cancer with brachytherapy only*. Master thesis to obtain Master in Medicine, University of Zurich.

Loiero, D. (2012). *Inter- and Intrareader variability of Ratingen score in the Swiss Clinical Quality Management database*. Master thesis to obtain Master in Medicine, University of Zurich.

Scherer, A. (2011). *Determinants of TNFa inhibitor prescription in the Swiss Clinical Quality Management cohort of axial Spondylarthropathy patients*. Semester thesis in Master of Biostatistics program, University of Zurich.

Achermann, R. (2008). *Netrin-1 und DCC Expression bei Hirntumoren*. Semester thesis in Master of Biostatistics program, University of Zurich.

Lanz, K., Weber M. (2005). *Schleistung unter körperlicher Anstrengung*. Swiss Technical School for Optometrics, Olten, Switzerland.

## TEACHING LEADERSHIP

- At Roche, I am responsible for the technical training planning of  $\sim 190$  biostatistics staff.
- I coordinate a major chunk of the biostatistics courses for non-statistics functions.
- A full-day introductory biostatistics course that I have given together with Marcel Wolbers has been selected as part of the official training program for all Roche affiliates globally.

## SHORT COURSES FOR STATISTICALLY TRAINED AUDIENCES

07/2019	Advanced methods for group-sequential trials. Half-day pre-conference course, together with Marcel Wolbers. (ISCB40, Leuven)
03/2019	Group-sequential clinical trial designs, advanced topics. Half-day course for biostatisticians, together with Marcel Wolbers. (Roche, Basel)
03/2018	Group-sequential and adaptive clinical trial designs, with R practicals. Full-day course for biostatisticians, together with Daniel Sabanés Bové, Marc Vandemeulebroecke, Marcel Wolbers. (Organized by the Basel Biometrics Section, Basel)
06/2013	Analysis of Longitudinal data. 8-hour course for biostatisticians. (Roche, Basel)
01/2011	Analysis of Longitudinal data. 3 day course, given jointly with Prof. Leo Held. (Institut for Medical Biometry, Epidemiology, and Informatics, University of Mainz)
06/2010	Analysis of Longitudinal data, as part of Master in Medical Biometry. 3 day course, given jointly with Prof. Leo Held. (Department of Medical Biometry, University of Heidelberg, Heidelberg)

## GRADUATE LEVEL TEACHING FOR STATISTICIANS

Preparing and teaching lecture to Master students, preparing and discussing exercises (blackboard and with R), preparing and grading exams.

11/2013	Statistical Methods for Clinical Research, one session on group-sequential designs in clinical research (Graduate level, University of Zurich)
11/2012 – 12/2012	Statistical Methods for Clinical Research, two sessions: group-sequential designs in clinical research and measures of agreement (Graduate level, University of Zurich)
09/2011 – 12/2011	Statistical Methods for Clinical Research (Graduate level, University of Zurich)
02/2010 – 06/2010	Longitudinal data analysis (joint with Prof. L. Held, graduate level, University of Zurich)
09/2009 – 12/2009	Biostatistical methods, Part II: Statistical methods for clinical trials (graduate level, University of Zurich)
02/2009 – 05/2009	Likelihood inference (joint with Prof. L. Held, graduate level, University of Zurich)
10/2005 – 02/2006	Introduction to Statistics (undergraduate level, University of Bern)

## SHORT COURSES FOR NON-STATISTICAL AUDIENCES

01/2019	Introduction to statistics in clinical trials. (2-hour course for Medical Science Liaison group, Roche Swiss Affiliate, Reinach)
01/2019	Introduction to survival analysis and clinical trial designs, Part II. (2-hour course for medical doctors, organized by Roche Switzerland at Baden Hospital.)
01/2019	Estimands and real-world data in drug development. (Half-day course for early development Neuroscience, Ophthalmology and Rare Disease scientists, Roche, Basel)
11/2018	Introduction to survival analysis and clinical trial designs. (Half-day course for early development Neuroscience, Ophthalmology and Rare Disease scientists, Roche, Basel)
03/2018	Introduction to survival analysis and clinical trial designs. (3-hour course for medical doctors, organized by Roche Switzerland at Baden Hospital.)
02/2018	Introduction to survival analysis and clinical trial designs. (Half-day course for Regulatory Documentation Department and Global Project Managers, Roche, Basel)
11/2017	Introduction to statistics. (Half-day course for Regulatory Documentation Department and Global Project Managers, Roche, Basel)
07/2017	Sample size planning and survival analysis in clinical trials. (Full-day course for Medical Affairs and Clinical Science Departments, Roche, Basel, jointly with Marcel Wolbers)
04/2017	Introduction to statistics. (Half-day course for Competitive Intelligence Group, Roche, Basel)
03/2017	Introduction to statistics. (2-hour course for Finance Department, Roche, Basel)
11/2016	Introduction to statistics. (Half-day course for Regulatory Documentation Department, Roche, Mississauga)
10/2016	Introduction to statistics. (Half-day course for Regulatory Documentation Department, Roche, Basel)
08/2016	Introduction to statistics. (3-hour course for Media Group Roche, Basel)
03/2016 – 11/2016	Five workshops on specific biostatistical topics in clinical trials. (3-hour courses for medical doctors, organized by Roche Switzerland at hospitals in Sion, St. Gallen, Frauenfeld, Aarau, Zürich.)
05/2016	Introduction to statistics. (Half-day course for Regulatory Documentation Department, Genentech, South San Francisco and Roche, Basel)
02/2016	Introduction to statistics in clinical trials. (Half-day course for Medical Science Liaison group, Roche Swiss Affiliate, Reinach)
01/2016 – 02/2016	Introduction to statistics. Certificate of Advanced Studies (CAS) course, as part of the Master of Advanced Studies in Managed Health Care. (2-day course, ZHAW Zurich University of Applied Sciences, School of Management and Law, Winterthur Institute for Health Economics, Winterthur)
11/2015	Introduction to statistics. (1-day course for Statistical Programming and Analysis Department, Roche Basel)
10/2015	Introduction to statistics. (Two 1-day courses for Regulatory Documentation Department, Roche Basel & Welwyn)
05/2015	Introduction to statistics. (1-day course for Product Development Department, Roche Basel)

02/2015	Introduction to statistics. Certificate of Advanced Studies (CAS) course, as part of the Master of Advanced Studies in Managed Health Care. (2-day course, ZHAW Zurich University of Applied Sciences, School of Management and Law, Winterthur Institute for Health Economics, Winterthur)
06/2014 – 11/2014	Four workshops on specific biostatistical topics in clinical trials. (3-hour courses for medical doctors, organized by Roche Switzerland at hospitals in Zürich, Lausanne, Basel, Baden.)
01/2014 – 03/2014	Introduction to statistics. Certificate of Advanced Studies (CAS) course, as part of the Master of Advanced Studies in Managed Health Care. (3-day course, ZHAW Zurich University of Applied Sciences, School of Management and Law, Winterthur Institute for Health Economics, Winterthur)
11/2013	Workshop on survival analysis in oncology. (3-hour course for Roche Oncology sales force, Reinach)
06/2013 – 04/2014	Seven workshops on survival analysis in oncology. (3-hour courses for medical doctors organized jointly by Roche Switzerland and Novartis Switzerland at hospitals in Basel, Zürich, Bern, Luzern, Lausanne, Lugano, Olten.)
01/2012 – 03/2012	Introduction to statistics. Certificate of Advanced Studies (CAS) course, as part of the Master of Advanced Studies in Managed Health Care. (3-day course, ZHAW Zurich University of Applied Sciences, School of Management and Law, Winterthur Institute for Health Economics, Winterthur)
09/2011	Statistics in oncology. (1-day course, cancer biology PhD program, University of Zurich)
04/2011	How to write a scientific paper – statistical aspects. (4-hour course as part of medical curriculum, University Hospital, Zurich)
02/2011	Introduction to biostatistics. (3-hour course, continuing education for radiologists, University Hospital, Bern)
03/2010	Samples, confidence intervals, statistical tests, and $p$ -values. (1-hour talk, Medical radiology department, University Hospital Zurich, Zurich)
01/2010 – 05/2010	Introduction to statistics. Certificate of Advanced Studies (CAS) course, as part of the Master of Advanced Studies in Managed Health Care. (3-day course, ZHAW Zurich University of Applied Sciences, School of Management and Law, Winterthur Institute for Health Economics, Winterthur)
09/2010	Statistics in oncology. (1-day course, cancer biology PhD program, University of Zurich)
09/2009	Statistics in oncology. (1-day course, cancer biology PhD program, University of Zurich)
09/2009	Assessment of agreement between continuous variables. (1-hour talk, Waid Hospital, Zurich)
02/2009	Introduction to biostatistics. (1-hour talk, Triemli Hospital, Zurich)
01/2009	Introduction to biostatistics. (1-day course, continuing studies for researchers, University of Zurich)
09/2008	Statistics in oncology. (1-day course, cancer biology PhD program, University of Zurich)
02/2008	Linear models. (1-day course, continuing studies for researchers, University of Zurich)
04/2005 – 05/2005	Introduction to R. (2-day course, continuing studies, University of Bern)

## FURTHER SHORT COURSES

09/2011

Optimization.

(2-hour course, Energy trading academy, BKW FMB Energie AG)