

SFB 1350 – REN^{Pro}
Method courses 2020:



Data Analysis – advanced course: regression methods
(Prof. Dr. Iris Heid, Prof. Dr. Klaus Stark)

Time: 2 days; 22. - 23.09.2020

Place: Online via Zoom

Target group: PhD students at the SFB 1350,
open for medical doctoral students and PostDocs in the SFB 1350
and interested doctoral students (via the graduate schools)

Requirements: Basic course on data analysis (introduction to biostatistics)

Credit Points: Full participation can be counted as a method course with 0.6 CP within
the Curriculum of the Graduate Schools (RIGel, BioMediGS, life@FAU)

Maximum number of participants: 20

Registration and contact: michaela.kritzenberger@ur.de

Deadline for registration: 18.09.2020

Detailed program:

Day 1 – 22.09.2020	
09:00 – 11:00h	Lecture: Linear Regression – Introduction, estimating and testing of regression parameter, prediction, variable coding, assumptions, interaction (Iris Heid)
11:00 – 12:30h	Practical course: Basics in biostatistics, linear Regression and variable coding with SPSS (Klaus Stark)
13:30 – 15:30 h	Lecture: Linear Regression continued – Multiple Testing, model accuracy, overall test, ANOVA as an extension of T-Test, ANOVA as a regression model, Kruskal-Wallis test (Iris Heid)
15:45 – 18:00h	Practical course: Multiple linear Regression, ANOVA and Kruskal-Wallis test with SPSS (Klaus Stark)

Day 2 – 23.09.2020	
09:00 – 11:00 h	Lecture: Logistic regression and model building – Odds Ratio and logistic regression, variable selection and model building (Iris Heid)
11:00 – 12:30h	Practical course: Logistic Regression with SPSS (Klaus Stark)
13:30 – 15:00 h	Lecture: Cox-Regression - Survival time data, Kaplan-Meier curve, Hazard Ratio, Cox regression (Iris Heid)
15:15 – 18:00 h	Practical course: Survival time analysis with SPSS (Klaus Stark)