Fundamentals of Questionnaire Design and Analysis using lab.js and R

EES/ESS, Life Sciences, Electives	Block II

Julius Fenn (fennstatistics@posteo.de)

Open to Students	Credit Points	Max. Enrollment	Course Number
Year(s) 2,3,4	6	20	00LE62S-LAS-LSEE0009

Module(s) StuPo 2015	Module(s) StuPo 2020
Life Sciences: Methods EES: Analytical Methods	Life Sciences: Methods I or II ESS: Methods I or II

Prerequisites	Dealing with Numerical Information
Format, Dates, Times and Rooms	Seminar Tue, 9-12h, HH9 HS 00 003 A Thu, 9-12h, KG 1236
Course Description	A questionnaire is a standardised technique for collecting data in which a respondent provides answers to a series of questions. Questionnaires are widely applied in the context of attitudinal research and many well known surveys like the European Social Survey are regularly collected and provide valuable insights in important societal trends. To develop a questionnaire we will collect data and a step-by-step approach to questionnaire development is taught. You will learn a variety of theory and statistical methods to develop and analyse your own questionnaire in the future. The statistic Software R will be used.
Remarks	Students will develop an online questionnaire or experiment, collect data and analyze it. We will use the mindprobe server and the lab.js software. The course is open to students from all majors, but LS and ESS students get priority.
Examination Dates	Project report (rmarkdown) due on Feb 28, 2022
Recommended Reading	Boateng, G. O., Neilands, T. B., Frongillo, E. A., Melgar-Quiñonez, H. R., & Young, S. L. (2018). Best practices for developing and validating scales for health, social, and behavioral research: a primer. Frontiers in public health, 6, 149. Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E., & Tatham, R. L. (2019). Multivariate data analysis, Eighth Edition. https://mindprobe.eu/ https://lab.js.org/

KG	Kollegiengebäude	Ph	Peterhof
AU	Alte Universität	HH	Hermann-Herder-Straße
HS	Hörsaal	FMF	Stefan-Meier-Str. 21