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424805 : Research Master: Categorical Data Analysis

General info

Instruction language

English

Type of Instruction Seminars and lab sessions ([Lecture schedule](#))

Type of exams Written exam, two assignments ([Examination schedule](#))

Level: Master

Course load: 6 ECTS credits

Blackboard Info Link to [Blackboard](#) (*When you see 'Guest are not allowed in this course', please login at Blackboard itself*)



Lecturer(s)

[prof. dr. J.K. Vermunt](#)

Objectives

The aim of the course is to gain practical and theoretical knowledge of the most relevant techniques for the analysis of categorical data.

Contents

The most important theme in this course is regression analysis with non-continuous dependent variables using binary, multinomial and ordinal logistic, probit, and Poisson regression models; that is, regression models belonging to the generalized linear modelling family. In addition, attention is given to log-linear analysis techniques. The third topic is latent class analysis, which is a method for cluster analysis, scaling, and the random effects modeling. The relevant software packages in this course are SPSS, STATA, and Latent GOLD.

Specifics

The course consists of 14 two-hour lectures and 14 two-hour computer practicals. In the interactive lecture, the lecturer explains the subject matter, asks questions, and invites students to discuss the subject matter. In the practicals, the students apply the acquired methods and techniques to real-data sets from the Social Sciences and Social Psychology using SPSS, STATA, and Latent GOLD.

Written exam and two assignments. The assignments consist of analyzing data and reporting the data analysis and results. Students should attend lab sessions. Students who fail to attend more than one lab session should do an additional assignment.

The 168 hours in the course consist of 28 (14 × 2) hours attending lectures, 28 (14 × 2) hours attending practicals, 32 (2 × 16) hours working on the assignments, and 80 hours self-tuition (56 hours for preparing the lectures/practicals and 24 hours for preparing the written exam).

Compulsory Reading

1. Agresti, A., *Categorical data analysis*, Hoboken, NJ: Wiley, 2002 (second edition), ISBN 0-4713-6093-1.
2. Research papers to be handed out during the course.

Required Prerequisites

Only for students who are qualified for the Research Master.

Recommended option for

- Research Master in Business: Marketing ([2009](#))
- Master's degree program in Research in Social and Behavior Sciences ([2009](#))
- Master Social and Behavioral Sciences: Minor Methodology & Statistics ([2011](#), [2012](#))

(27-sep-2012)