UNIKASSEL
VERSITÄT

Applied econometric analysis of stated choice data (MA and MAGKS course)

Lecturer:

Prof. Dr. Andreas Ziegler
Chair of Empirical Economic Research
Nora-Platiel-Str. 5, 34109 Kassel
Office hours: Wednesday, 11.30-12.30 h (Room 1119)

Expected schedule:

First part (April 09 – April 12, 2018)

April 09

Introduction to Stata (Engler)	11.00-13.00 h (Nora-Platiel 4, Room 1215)
Lecture (Ziegler):	14.00-16.00 h (Arnold Bode 2, Room 0409)
Lecture (Ziegler):	16.30-18.30 h (Arnold Bode 2, Room 0409)

April 10

Lecture and applications with Stata (Ziegler):	12.00-14.00 h (Nora-Platiel 4, Room 1215)
Tutorial with Stata (Engler):	14.30-16.30 h (Nora-Platiel 4, Room 1215)
Lecture (Ziegler):	17.00-18.30 h (to be announced)

April 11

Lecture (Ziegler):	11.00-13.00 h (Nora-Platiel 6, Room 0213)
Lecture and applications with Stata (Ziegler):	14.00-16.00 h (Nora-Platiel 4, Room 1215)
Tutorial with Stata (Engler):	16.30-18.30 h (Nora-Platiel 4, Room 1215)

April 12

Lecture (Ziegler):	11.00-13.00 h (Arnold Bode 2, Room 0409)
Lecture and applications with Stata (Ziegler):	14.00-16.00 h (Nora-Platiel 4, Room 1215)
Tutorial with Stata (Engler):	16.30-18.30 h (Nora-Platiel 4, Room 1215)

Second part (July 12 – July 13, 2018)

July 12

Presentations:	10.00-18.00 h (to be announced)

July 13

Presentations:	10.00-18.00 h (to be announced)

Lecture slides:

On the website and in the moodle course "Applied econometric analysis of stated choice data"

Prerequisite for attending the course:

Deep knowledge of microeconometric models and methods

Requirements for earning 6 ECTS credits:

- For master students in Kassel: Successful attendance of an econometric master course
- Attendance and active participation throughout both parts of the course
- Writing of a seminar paper (about ten pages plus tables) and oral presentation in the second part of the course

Outline:

1. Introduction to multinomial discrete choice models
    1.1 Background
    1.2 General model structure
    1.3 Maximum Likelihood estimation
    1.4 Statistical testing
    1.5 Multinomial logit models
    1.6 Applications

2. Flexible multinomial discrete choice models
    2.1 Background
    2.2 Multinomial probit models
    2.3 Mixed logit models
    2.4 Latent class logit models
    2.5 Applications

3. Stated choice analyses
    3.1 Stated and revealed preferences
    3.2 Design of stated choice experiments
    3.3 Examples
    3.4 Econometric analysis
    3.5 Applications

Literature:

- Greene, W.H. (2012), *Econometric analysis*, 7th Edition, Pearson Education.
- Greene, W.H. and D.A. Hensher (2003), A latent class model for discrete choice analysis: Contrasts with mixed logit, *Transportation Research Part B* 37, 681-698.
- Gutsche, G. and A. Ziegler (2016), *Are private investors willing to pay for sustainable investments? A stated choice experiment*, MAGKS Discussion Paper No. 40-2016.
- Hensher, D.A. and W.H. Greene (2003), The mixed logit model: The state of praxis, *Trans-portation* 30 (2), 133-176.
- Hensher, D.A., J.M. Rose, and W.H. Greene (2005), *Applied choice analysis: A primer*, Cambridge.
- Hole, A.R. (2007), Estimating mixed logit models using maximum simulated likelihood, *The Stata Journal* 7, 388-401.
- Hoyos, D. (2010), The state of the art of environmental valuation with discrete choice experiments, *Ecological Economics* 69 (8), 1595-1603.
- Johnston, R.J. et al. (2017), Contempary guidance for stated preference studies, *Journal of the Association of Environmental and Resource Economists* 4 (2), 319-405.
- Louviere, J.J., D.A. Hensher, and J.D. Swait (2010), *Stated choice methods – Analysis and application*, 7th printing, Cambridge
- Pacifico, D. and H. Yoo, H. (2013), lclogit: A Stata command for fitting latent-class conditional logit models via the expectation-maximization algorithm, *The Stata Journal* 13 (3), 625-639.
- Train, K.E. (2009), *Discrete choice methods with simulation*, 2nd edition, Cambridge University Press, Cambridge, New York.
- Winkelmann, R. and S. Boes (2009), *Analysis of microdata*, 2nd Edition, Springer, Berlin, Heidelberg.
- Ziegler, A. (2012), Individual characteristics and stated preferences for alternative energy sources and propulsion technologies in vehicles: A discrete choice analysis for Germany, *Transportation Research Part A* 46 (8), 1372-1385