
Winter Term Seminar
Prof Dr Vera Troeger
“Quantitative Approaches to Data Collection
and Analysis”
8 – 9 November 2016



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Content

This course will cover various questions and specification issues in multivariate quantitative data analysis and is designed for students with only basic knowledge of applied data analysis. The course deals with different problems arising in applied data analysis when multiple violations of the basic regression assumptions occur. We will start by discussing the basic Gauss-Markov assumptions of OLS regression analysis, their violations and suitable solutions to such misspecifications, especially when they occur in conjunction. Thus, participants will learn how to deal with different types of heteroskedasticity, spatial correlation, serial correlation and dynamics as well as various kinds of heterogeneity. This discussion will include working with diverse data such as cross-sectional, time-series, panel and pooled data. The course combines a more theoretical introduction into different topics with practical analysis of diverse data sets using STATA. Students are encouraged to bring their own data sets and present their research projects and empirical analysis during the course.

About the instructor

Prof Dr Vera Troeger is Professor of Quantitative Political Economy and PPE Co-Director at the University of Warwick. Her research interests are Comparative Political Economy and Quantitative Political Methodology. She is also editor in chief of Political Science Research Methods (PSRM) and the Journal of the European Political Science Association (EPSA). Her teaching experiences encompass Economics Research, Applied Economics, and Quantitative Data Analysis and Research Methods.

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