



DAGStat 2016

4th Joint Statistical Meeting
March, 14-18, 2016, Göttingen
Statistics under one umbrella

Program



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Welcome

Dear participants,

This year, we are celebrating the fourth joint statistical meeting in Germany hosted by the Georg-August-University Göttingen. After 2007 in Bielefeld, 2010 in Dortmund and 2013 in Freiburg, the tradition of “Statistik unter einem Dach”, which translates to “statistics under one umbrella”, has become an established institution. This time, the meeting includes three annual meetings of societies which are members of the Deutsche Arbeitsgemeinschaft Statistik (DAGStat,) which is an umbrella association of 14 German statistics societies. The annual meetings are the

62. Biometrisches Kolloquium,

Pfingsttagung der Deutschen Statistischen Gesellschaft,

40. Jahrestagung der Gesellschaft für Klassifikation.

In particular, the 40th annual meeting of the German Classification Society is the reason for a special celebration. Moreover, the DAGStat had its 10th anniversary last year which is celebrated in this meeting as well. Aren't these enough reasons to enjoy a stimulating and certainly exciting conference?

DAGStat 2016 in Göttingen provides a forum for statisticians from all shades and all fields including econometrics, biostatistics, official statistics and mathematics to name just a few. The setting of the conference allows participants to interact and learn from each other. Econometric analyses are accompanied by biometrical talks, epidemiological research is presented besides new methodological ideas. Such versatile view and understanding of statistics is and has always been at the heart of the DAGStat since its foundation in 2005. Statistics today is a vivid and active research discipline which is influencing more and more fields of our daily life with new areas such as data science emerging.

The conference has been organized by numerous people, some in the foreground and many in the background. The DAGStat executive board wants to thank all who made this conference happen, in particular we thank the local organizers, the team around Prof. Kneib and Dr. Irmer.

We hope that all participants enjoy the meeting. We encourage you to take advantage of the wide range of talks. Do appreciate meeting colleagues and old friends,

build up new contacts and collaborations. And last but not least we are welcoming young-career statisticians. Some of whom will be awarded prizes for outstanding work by the DStatG, GfKI and the IBS-DR in a dedicated session. Let us all enjoy being part of the big statistical family. Welcome to DAGStat 2016!

Christine Müller
Chair of the DAGStat

Karl Mosler
Vice Chair of the DAGStat

Tim Friede
President of the IBS DR

Berthold Lausen
Chair of the GfKI

Wolfgang Schmid
President of the DStatG

Dear colleagues and friends,

on behalf of the local organizing committee, it is my pleasure to welcome all of you to the fourth joint statistical meeting of the German Consortium for Statistics (Deutsche Arbeitsgemeinschaft für Statistik, DAGStat) hosted at the Georg-August-Universität Göttingen. Hopefully, this meeting will continue the success story of the previous DAGStat-conferences which took place in Freiburg in 2013, in Dortmund in 2010 and in Bielefeld in 2007. As always, a large conference like this one is a joint effort by many. In particular, our thanks go out to the members of the local organizing committee, the members of the scientific program committee and to all colleagues from the Chairs of Statistics and Econometrics and the Centre for Statistics for devoting hours and hours of hard work to the success of this conference.

Göttingen's university has a long history and this history has strong connections to statistics. In the 18th century, Gottfried Achenwall has been professor in Göttingen and – although not being the inventor of the word statistics as is often falsely claimed – he significantly to shaping statistics as a science providing quantitative information on all aspects concerning the citizens of a state. While nowadays statistics is of course a much broader discipline covering aspects ranging from mathematical theory over computer science and statistical modelling to data analysis, Achenwall is still considered as one of the founders of statistical science. Therefore Göttingen can also be considered as one of the cradles of statistics. A second character certainly associated with Göttingen and statistics is Carl Friedrich Gauß, the “*mathematicorum principi*” or “*foremost of all mathematicians*”. While the debate about whether Adrien-Marie Legendre or indeed Gauß invented the principles of least squares estimation will probably remain unsolved, it is certainly undisputed that Gauß laid the foundations for many aspects of modern statistics. To mention only a view, there are the Gaussian elimination for solving linear systems of equations, the Gauß quadrature for the numerical evaluation of integrals, the Gaussian process, and of course the normal distribution – although there are dozens of further mathematical concepts named after Gauß.

Today, making contributions of such a wide reach and general importance as Gauß did has become much more difficult. Yet, one general observation in basically all scientific disciplines is the reliance on quantitative methods, data analysis, data mining, bioinformatics, big data, data science or simply statistics. Statistics has turned into one of the most important interdisciplinary sciences of the information era and is an important tool for all applied scientists with a quantitative focus. It is a real pleasure to be part of this conference whose diversity in topics and foci reflects this recent trend towards an increasing interest in statistics. In particular, the conference brings together participants with a broad range of background and experiences, starting from mathematical statistics and ranging to all areas of ap-

plication of statistics. This broadness is reflected in the topics of the conference as well as the excellent selection of invited and plenary speakers and is certainly fostered by the accompanying social program of the conference.

I am very much looking forward to the conference and the interaction with all of you. Enjoy the scientific as well as social program and also take the chance to enjoy your time in the city of Göttingen as well.

Thomas Kneib

Chair of the Local Organizing Committee

Conference Organizers

The Deutsche Arbeitsgemeinschaft Statistik (DAGStat) is a network of scientific and professional organizations that develop and promote statistical theory and methodology.

- Deutsche Statistische Gesellschaft
- Internationale Biometrische Gesellschaft - Deutsche Region
- Fachgruppe Stochastik der DMV
(Deutsche Mathematiker-Vereinigung)
- Gesellschaft für Klassifikation e.V.
- Verband Deutscher Städtestatistiker
- Fachbereich Biometrie der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie e.V.
- Verein zur Förderung des schulischen Stochastikunterrichts e.V.
- Deutsche Gesellschaft für Epidemiologie e.V.
- Ökonometrischer Ausschuss des Vereins für Socialpolitik
- Fachgruppe Methoden und Evaluation der DGPs
(Deutsche Gesellschaft für Psychologie)
- Sektion Methoden der empirischen Sozialforschung der DGS
(Deutsche Gesellschaft für Soziologie)
- European Network for Business and Industrial Statistics - Deutsche Sektion
- Statistisches Bundesamt
- Sektion Methoden der DVPW
(Deutsche Vereinigung für Politische Wissenschaft)

Scientific Committee

Chairs:

Christine Müller
Berthold Lausen
Jürgen Kübler
Wolfgang Schmid

Technische Universität Dortmund
University of Essex, Colchester
CSL Behring, Marburg
Europa Universität Viadrina, Frankfurt O.

Committee:

Sigrid Behr
Ralf Bender
Jan Beyersmann
Andreas Eichler
Tim Friede
Helmut Herwartz
Heinz Holling
Hajo Holzmann
Hans Kestler
Thomas Kneib
Karin Kurz
Peter Schmidt
Kai-Uwe Schnapp
Jürgen Wellmann

Novartis, Basel
IQWiG, Köln
Universität Ulm
Universität Kassel
Georg-August-Universität Göttingen
Georg-August-Universität Göttingen
Westfälische Wilhelms-Universität Münster
Philipps Universität Marburg
Universität Ulm
Georg-August-Universität Göttingen
Georg-August-Universität Göttingen
Statistisches Bundesamt
Universität Hamburg
Westfälische Wilhelms-Universität Münster

Local Organization

Thomas Kneib
Helmut Herwartz
Dörte Dede
Henriette Irmer

Conference Program

We invite you to join the 4th Joint Statistical Meeting DAGStat 2016 in Göttingen. The meeting includes the 62. "Biometrische Kolloquium", the "Pfungsttagung der Deutschen Statistischen Gesellschaft" and the 40. "Jahrestagung der Gesellschaft für Klassifikation".

According to the motto "Statistics under one umbrella", contributions of all fourteen societies that form the DAGStat will be included in the conference program. The plenary presentations will address current topics which are of interest for statisticians of all different areas of application.

Talks from a great variety of topics from different fields of applications such as medicine, economics, and engineering will allow and support an exchange of statistical methods and thus encourage interesting and inspiring scientific discussions.

DAGStat conferences are international conferences. The conference languages will be English and German. We welcome oral contributions in both English and German. Participants who will speak in German are encouraged to prepare their slides in English. We also encourage you to prepare posters in English.

Scientific Program

Topics

- Big Data and Data Science (Organizers: Iris Pigeot and Eyke Hüllermeier)
- Bioinformatics (Organizers: Hans Kestler and Jörg Rahnenführer)
- Cluster Analysis and Classification (Organizers: Claus Weihs and Joachim Mucha)
- Computational Statistics and Statistical Software (Organizers: Achim Zeileis and Matthias Schmid)
- Data Analysis and Marketing (Organizers: Yasemin Boztug and Daniel Baier)
- Design of Experiments (Organizers: Rainer Schwabe and Norbert Benda)
- Destroying data as a means of data protection - is it ethical? (Organizers: Iris Pigeot and Ronja Foraita)
- Education for Statistics in Practice (Organizers: Stephanie Roll and Christoph Muysers)
- Empirical Economics and Applied Econometrics (Organizers: Winfried Pohlmeier and Axel Werwatz)
- Graphical Models and Causal Inference (Organizers: Vanessa Didelez and Andreas Geyer-Schulz)
- Machine Learning (Organizers: Myra Spiliopoulou and Berthold Lausen)
- Mathematical Statistics in Life Science (Organizers: Jan Beyersmann and Markus Pauly)
- Methods for Risk and Benefit Assessment (Organizers: Jürgen Kübler, Ralf Bender and Angelika May)
- Multilevel and Panel Data Analysis (Organizers: Hans-Hürgen Andress and Kilian Seng)
- Observational Studies (Organizer: Siegrid Behr, Irene Schmidtman)
- Official and Survey Statistics (Organizers: Peter Schmidt and Hans Kiesel)

- Penalized and Regularized Regression Analysis (Organizers: Tim Friede and Thomas Kneib)
- Psychometrics (Organizers: Carolin Strobl and Andreas Frey)
- Research Synthesis and Meta Analysis (Organizers: Heinz Holling and Ralf Bender)
- Robust and Nonparametric Statistics (Organizers: Claudia Becker and Roland Fried)
- Small Area Analysis and Spatial Statistics (Organizers: Susanne Schnorr-Bäcker, Hartmut Bömermann and Volker Schmid)
- Statistics in Agriculture and Ecology (Organizers: Roland Langrock, Friedrich Leisch and Hans-Peter Piepho)
- Statistics in Clinical and Preclinical Research (Organizers: Meinhard Kieser and Richard Vonk)
- Statistics in Finance (Organizers: Yarema Okhrin and Roman Liesefeld)
- Statistics in Natural Sciences and Technology (Organizers: Sonja Kuhnt and Sven Knoth)
- Statistics of High Dimensional Data (Organizers: Tim Beißbarth and Taras Bodnar)
- Structural Equation Modelling (Organizers: Rolf Steyer and Helmut Herwartz)
- Survival and Event History Analysis (Organizers: Steffen Unkel and Udo Kamps)
- Time Series Analysis (Organizers: Claudia Kirch and Philipp Sibbertsen)
- Visualisation and Exploratory Data Analysis (Organizer: Christian Hennig)
- Young Statisticians (Organizers: Anke Hüls and Benjamin Hofner)
- Open Topics (Organizers: Christine Müller and Thomas Kneib)

Tutorials

Event Data Analysis

Time: Monday, March 14, 9:00 am - 5:00 pm

Location: Verfügungsgebäude, VG1.103

Presenter: Robin Henderson

Standard survival analysis is concerned with time to a single event. Event history analysis connects together several events for each individual.

This tutorial provides a general introduction to event history analysis based primarily on counting process methods. The aim is to give a flavour of ideas and methods for a range of event history problems rather than provide full detail of any one. The mathematical content will be very light and there will be hands-on computing sessions based mainly on methods that can be applied using the standard survival package in R.

The day will be divided into four sessions, each consisting of a talk followed by a computer session. The first session will include an introduction to counting processes and a comparison between single-event survival and more general event history problems. Session 2 introduces regression models and then frailty for both heterogeneity and clustered and multivariate survival data. Session 3 turns to general event history with time-varying effects and time-varying and dynamic covariates. Finally in Session 4 we provide an introduction to competing risks analysis.

Copulae in Practice

Time: Monday, March 14, 9:00 am - 5:00 pm

Location: Verfügungsgebäude, VG1.104

Presenter: Ostap Okhrin

The course will cover theoretical as well as applied topics of Copulas. Theoretical introduction into copula modeling, their problematic, and current strand of the literature will be discussed first. Later some copula packages (copula, HAC, gofCopula) will be considered in the life examples with the brief overview of the existing other copula packages in R. Afterwards special attention will be paid to the copula in time series modeling (adaptive estimation, hidden Markov models, copula for high frequency data).

Evidence Synthesis / Meta-Analysis

Time: Monday, March 14, 9:00 am - 5:00 pm

Location: Verfügungsgebäude, VG1.102

Presenter: Guido Knapp, Gerta Rücker and Guido Schwarzer

Evidence synthesis is used for decision making in various fields of applications, for instance, social sciences, medicine, psychology, ecology, and economics if multiple sources of evidence should be combined quantitatively. In this tutorial we will discuss several methods for combining information from several independent studies or experiments and show how to conduct analyses using the statistical software R. Focus of this tutorial will be model building and data analysis.

The tutorial is organized as follows: First, we will present the basics of generic fixed-effect and random-effects meta-analysis models for comparing two interventions. Especially, various estimators for the heterogeneity parameter will be presented. Then, the use of these models will be demonstrated for various effect sizes of normal, discrete, and survival outcomes like standardized mean difference, correlation coefficient, risk difference, odds ratio, or hazard ratio. Beyond the standard meta-analysis model for binary data, the use of unconditional and conditional generalized mixed linear models will be discussed if data are available as 2×2 -tables. The next topic is meta-regression which can be used for exploring heterogeneity of study results or for identifying good predictor variables for the outcome variable. Meta-regression techniques can also be used for subgroup analysis which will be discussed next. Then, we will study the so-called small study effect, which is a generic term for the phenomenon that smaller studies show larger treatment effects than larger ones. In case of more than one outcome variable, we arrive at multivariate meta-analysis. How to deal with this situation will be the next topic. Finally, methods for comparing more than two interventions, the so-called network meta-analysis also known as multiple or mixed treatment comparison, will be discussed.

Introduction to Integer-Valued Time Series

Time: Monday, March 14, 9:00 am - 5:00 pm

Location: Verfügungsgebäude, VG1.101

Presenter: Christian Weiss

We start with a brief survey of common count data models and their stochastic properties. In particular, we discuss dispersion properties and types of generating functions, the latter being useful tools when analyzing such count data models. Then we shall turn to the case of time-dependent counts, a topic that has attracted a lot of research activity during the last years. We start with one of first approaches to model such count data time series, the INAR(1) model by McKenzie (1985). This model uses the binomial thinning operator by Steutel and van Harn (1978) and can be understood as a special type of branching process with immigration. Stochastic properties of this model are discussed in great detail, including some current research results in this area. Also extensions of this model, to higher model orders or by using different types of thinning operators, are briefly considered. Finally, to conclude the part on thinning-based models, the binomial AR(1) model for finite counts is addressed in some details. Models from the INARMA family are also used to illustrate approaches for parameter estimation and diagnostic tests. These methods are applied to real-data time series using the statistical software R. Another popular approach for modeling stationary processes of counts are the INGARCH models, which are particularly attractive for overdispersed counts. Results concerning the basic model with a conditional Poisson distribution are presented, but also generalizations with, e.g., a binomial or negative binomial conditional distribution are considered. Again, data applications are presented. The lecture concludes with a brief survey of further alternatives like NDARMA, Hidden Markov or regression models.

Plenary Speakers

Peter Rousseeuw (Uni Leuven, BE)

Detecting cellwise outliers

15.3 Opening Tuesday, 10:40am ZHG011

Simon Thompson (University of Cambridge, UK)

Mendelian randomization: its potential and limitations

16.3 Plenary 1 Wednesday, 10:40am ZHG011

Adalbert Wilhelm (Jacobs Uni, DE)

Data-Driven Classification in the Social Sciences

17.3 Plenary 2 Thursday, 10:40am ZHG011

Hans Rudolf Künsch (ETH Zürich, CH)

Numerical weather prediction and statistics

18.4 Closing Friday, 12:00pm ZHG011

Invited Speakers

Rosemary Bailey (Uni St Andrews, UK)

Design of Dose-Escalation Trials: Research Spurred by a Trial That Went Wrong

15.5.3 Tuesday 2.50pm ZHG009

Andreas Buja (Uni Pennsylvania, USA)

Combining Data Visualization and Analytics — Examples and Problems

18.2.9 Friday, 8:50am ZHG009

Ying Cheng (Uni Notre Dame, USA)

Computerized Adaptive Testing: The History, Development and New Directions

16.5.2 Wednesday, 2:50pm ZHG102

Gerda Claeskens (KU Leuven, BE)

Confidence intervals post-model selection and other topics in model averaging

16.4.4 Wednesday, 1:00pm ZHG009

Sandrine Dudoit (Uni California, Berkeley, USA)

Identification of Novel Cell Types in the Brain Using Single-Cell Transcriptome Sequencing

17.2.8 Thursday, 8:50am ZHG102

Peter Goos (KU Leuven, Uni Antwerpen, BE)

Optimal design of mixture experiments

15.6.1 Tuesday, 5:40pm ZHG102

Patrik Guggenberger (Pennsylvania State Uni, USA)

Identification- and Singularity- Robust Inference for Moment Condition Models

18.3.2 Friday, 10:40am ZHG101

Marc Hallin (Uni libre de Bruxelles, BE)

Monge-Kantorovitch Quantiles, Ranks, and Signs

17.4.7 Thursday, 1:20pm ZHG101

Larry Hedges (Northwestern Uni, USA)

Recent Developments in Multivariate Meta-analysis

15.2.5 Tuesday, 8:50am ZHG007

Georg Heinze & Daniela Dunkler (Medical Uni of Vienna, AT)

Variablen Selektion

17.4.1 Thursday, 1:00pm ZHG009

17.5.1 Thursday, 2:50pm ZHG009

Robin Henderson (Newcastle Uni, UK)

Longitudinal perspectives on event history analysis

16.2.10 Wednesday, 8:50am ZHG009

Joop Hox (Uni Utrecht, NL)

Common problems and some solutions in the analysis of cross-national surveys

15.4.2 Tuesday, 1:00pm ZHG102

Beat Hulliger (FH Nordwestschweiz, CH)

Monitoring statistical data preparation

15.5.5 Tuesday, 2:50pm ZHG104

Thomas Lengauer (MPI für Informatik, DE)

Custom-tailoring combination drug therapies with bioinformatics

18.3.1 Friday, 10:40am ZHG009

David Lovell (Uni London, UK)

Statistics and mutagenicity/genotoxicity testing: past and future challenges

15.6.3 Tuesday, 4:40pm ZHG009

Marloes Maathuis (ETH Zürich, CH)

A complete adjustment criterion for the computation of causal effects

17.5.4 Thursday, 2:50pm ZHG101

Masahiro Mizuta (Hokkaido Uni, JP)

Symbolic data analysis for post-big data

15.5.2 Tuesday, 2:50pm ZHG101

Byron Morgan (Uni Kent, UK)

Integrated population modelling

15.4.5 Tuesday, 1:00pm ZHG009

Morten Ørregaard Nielsen (Queen's Uni, CA)

The cointegrated vector autoregressive model with general deterministic terms

15.2.9 Tuesday, 8:50am ZHG104

Edzer Pebesma (Uni Münster, DE)

Support of observations and predictions in spatial and temporal statistics: practical aspects and software challenges

17.2.2 Tuesday, 8:50am ZHG009

Jose M. Pena (Uni Politécnica de Madrid, ES)

Data Analysis Challenges in Neuroscience: From Experimental Data to Brain Simulation

17.2.4 Tuesday, 8:50am ZHG104

Lawrence Phillips (London School of Economics and Political Science, UK)

Creating the future: moving benefit-risk decisions from implicit and qualitative to explicit and quantitative

16.2.5 Wednesday, 8:50am ZHG102

Bertram Raum (BfDI, DE)

Forschungsethik und Datenschutz in Zeiten von Big Data

17.2.3 Tuesday, 8:50am ZHG101

Yves Rosseel (Ghent Uni, BE)

Lavaan and the (computational) history of structural equation modeling

18.2.8 Friday, 8:50am ZHG101

Håvard Rue (Norwegian Uni of Science and Technology, NO)

Sensitivity of model assumptions for latent Gaussian models

16.2.6 Wednesday, 8:50am ZHG101

Olivier Scaillet (Uni of Geneva and Swiss Finance Institute, CH)

A diagnostic criterion for approximate factor structure

16.4.9 Wednesday, 1:00pm ZHG101

Max Welling (Uni Amsterdam)

Bayesian inference in deep architectures

15.5.1 Tuesday, 2:50pm ZHG102

Information for Presentation

Instructions to presenting authors

Please introduce yourself to the chair of your session 15 minutes before the session starts. Bring your presentation slides on a USB drive and copy them onto the computer provided in the room where your session takes place. Organizing team members (red t-shirts) will be available for technical support.

Make sure your presentation is in PDF format and that all fonts are embedded. Users of presentation programs such as Microsoft Powerpoint are kindly requested to export their slides to PDF.

DAGStat conferences are international conferences. Conference languages are English and German. We welcome oral contributions in both English and German. Participants who choose to speak in German are encouraged to prepare their slides in English. We also encourage that posters are prepared in English. As a rule, oral presentations are expected to be delivered in the language of their abstracts.

Due to organizational issues, there is a strict time limit of 20 minutes including discussion for each contributed presentation.

Poster

Posters will be displayed on the ground floor of the ZHG on three different spots (Poster numbers 1-25, 26-50, 51-76). Please put up your poster on Wednesday, March 16, before 4.30 pm. Your poster IDs can be found in the programme booklet as well as on the poster boards. Pins to fix your poster will be provided at each poster board. Deadline for the removal of posters is Thursday, March 17, 6 pm. The conference organizers are not responsible for posters not collected by the end of the conference. During the poster session on Wednesday, March 16, 6:15 - 8:00, you are kindly requested to stand next to your poster and be available for questions. We encourage you to include a small picture of yourself on your poster.

Poster & GfKI Reception

To celebrate the 40th Annual Meeting of the Gesellschaft für Klassifikation (Society for Classification), the poster session is combined with a reception including drinks and snacks.

The event is planned as an informal gathering and will take place on Wednesday, March 16, at 6 pm at the "Foyer Zentrales Hörsaalgebäude" (ZHG), ground floor.

Panel Discussion

In addition to the regular sessions, DAGStat is hosting an exciting panel discussion featuring experts in publishing in statistical journals. The event is moderated by Karl Mosler, Professor of Statistics and Econometrics, University of Cologne, and panelists will discuss topics related to open access of scientific journals and data repositories, reproducibility of research, the role of scholarly societies, university libraries and commercial publishers, refereeing of contents, and building reputation for authors and journals.

Panelists:

Tim Friede,

Professor of Biostatistics at the University Medical Center Göttingen, Co-founder of the Systematic Review Unit, former Editor-in-Chief Biometrical Journal

Clemens Heine,

Senior Editor of Applied Mathematics and Computer Sciences at Birkhäuser-Science, Springer-Verlag, Basel

Wolfram Horstmann,

Director of the State and University Library of Lower Saxony, Confederation of Open Access Repositories (COAR), Research Data Alliance (RDA)

Yarema Okhrin,

Professor of Statistics, Universität Augsburg, Editor-in-Chief Advances in Statistical Analysis (AStA)

Martin Rasmussen,

Managing Director of "Copernicus" Meetings and Open Access Publications, Co-founder of the Open Access Scholarly Publisher Association (OASPA)

Education for Statistics in Practice

Time: Thursday, March 17, 1:00pm – 4:10pm

Location: ZHG, 009

For many years, the members of the German Region of the Biometric Society have been actively developing and implementing novel statistical methods. Developing and promoting these methods are inherently connected with continuing education of researchers at all stages of their career. Although the society regularly presents methodological developments at the annual meeting, a series of lectures called “Education for Statistics in Practice” was launched to further strengthen the society’s educational work. This series is aimed at researchers interested in the application of sophisticated statistical techniques to real-world data and in the issues that arise when putting state of the art techniques and software into practice.

This year’s lecture will be given by Georg Heinze and Daniela Dunkler (both Medical University of Vienna) and is titled: “Variable selection for statistical models: a review and recommendations for the practicing statistician”

Abstract: In this lecture, we will review variable selection methods for regression problems as often applied in analyses of observational studies with continuous, binary and censored survival endpoints. Variable selection methods are widely implemented in many statistical software packages, like SAS, R and SPSS. They are often based on information criteria, significance, change-of-estimate or penalized likelihood. We will discuss implications of variable selection, e.g., on uncertainty and stability of the final model, on bias of regression coefficients, and on the validity of confidence intervals. While many scientists have argued against data-driven variable selection, we will give pragmatic recommendations for the practitioner, suggesting typical steps to be done when variable selection has to be conducted, from selection of candidate covariates based on background knowledge, over choosing an appropriate variable selection method to presenting the final model in scientific reports. These recommendations will consider the case of moderately correlated covariates ($r < 0.8$) of mixed type. We will further make a brief outlook on methodological extensions to deal with missing values, nonlinear effects and effect modification.

„Lehrertag“ (for German school teachers only)

Time: Tuesday, March 15, 2:30pm – 5:45pm

Location: ZHG, 001

In consequence of an increasing importance of statistics in politics and society, principles such as probability, randomness, and risk have been integrated into Math classes of all schools in Lower Saxony.

The „Lehrertag“ (Teacher’s day) is dedicated to the question of how these principles can be intelligibly prepared and taught in class. Topics such as data analysis, application, and software will be discussed as well as issues in descriptive and exploratory statistics, and probability theory.

To interact with teachers from different school levels, core themes such as data and chance will be addressed in an introductory lecture followed by parallel practical session in which issues of the lecture will be discussed using examples relevant for teaching in school.

2:30pm – 3:40pm Begrüßung, Vortrag

Big Data - Big Brother oder Big Chances? „Ja, wie für mich gemacht!“, Targeting (zielgruppenorientierte Einblenden von Werbung auf Webseiten) im interaktiven Marketing

Prof. Dr. Ralf Wagner (Kassel)

Location: ZHG, 001

4:00pm – 5:45pm Begrüßung, Workshops

Unerwartete Eigenschaften der stochastischen (Un-)Abhängigkeit

Dr. Jörg Meyer (Hamel)

Location: Verfügungsgebäude, VG1.101

Ein roter Faden durch die Stochastik in der Sek II. Von Stichprobenverteilungen, Binomial- und Normalverteilungen und Prognose- und Konfidenzintervallen

Reimund Vehling (Hannover)

Location: Verfügungsgebäude, VG1.102

Stochastik lernen mit Papierfröschen

Prof. Dr. Markus Vogel (Heidelberg)

Location: Verfügungsgebäude, VG1.103

Mit Daten sicher durch den Zufall in der Sekundarstufe I

Prof. Dr. Andreas Eichler (Kassel)

Location: Verfügungsgebäude, VG1.104

Young Statisticians

Time: Tuesday, March 15, 1:00pm – 2:20pm

Location: ZHG, 104

The DAGStat invited young researchers to submit papers and to apply for the opportunity to present their research during a dedicated session at the DAGStat conference. Students at the end of their bachelor's or master's thesis or post-graduate students in their first year were invited to apply. The Young Statisticians session can be seen as a prestigious rehearsal since successful candidates have an excellent opportunity to get valuable feedback on their presentations regarding performance, content, and layout. Additionally, Young Statisticians will be invited to attend the whole conference including conference dinner and receive a certificate.

Statistics for the Public (in German)

Time: Monday, March 14, 8:00pm – 10:00pm

Location: Paulinerkirche

Availability of data on media usage and consumption behavior can be considered both a blessing and a curse for customers but also for companies. The precise targeting is clearly an advantage as consumers are approached according to their preferences of products and services. On the downside, transparency is creeping in our privacy revealing intimate details of our lifestyles. Moreover, the new quality of data and information in terms of granularity and frequency changes competition between rival suppliers as well as between advertising budgets of competing media channels.

Speaker: Ralf Wagner is endowed professor (SVI) of international direct marketing at the Dialog Marketing Competence Center at the University of Kassel. His research focuses on intercultural communication, interactive marketing, and targeting of clients in databases and digital media.

Statistics Bazaar

Time: Tuesday - Friday, 8 am

Location: ZHG, 009

The DAGStat conference provides a unique opportunity for statisticians to exchange ideas with colleagues from other areas of application. In particular the statistics bazaar is meant to encourage statisticians to look beyond the toolbox that is commonly used in their own area. Sometimes the ideas of colleagues remain unnoticed by oneself simply because they are communicated in an unfamiliar context. In the statistics bazaar four distinguished colleagues with different backgrounds will explain some of the subject matter challenges they are confronted with, boil it down to their statistical content, and explain - from statistician to statistician - how these problems can be tackled.

Tuesday, March 15

Permutationstests in faktoriellen Designs

Markus Pauly

Wednesday, March 16

Strukturelle Vektorautoregression

Helmut Herwartz

Thursday, March 17

Alarm! Statistical methods for the online monitoring of count data

Michael Höhle

Friday, March 18

Analysis of clinical cohort data using nested case-control and case-cohort sampling designs: A powerful and economical tool

Kristin Ohneberg

Schedule

Date: Monday, 14th March 2016			
9:00am – 5:00pm	Tutorial 1: Event Data Analysis Location: VG, 1.103	Tutorial 2: Copulae in Practice Location: VG, 1.104	Tutorial 3: Evidence Synthesis Location: VG, 1.102
3:00pm – 6:00pm	Registration Location: ZHG, 1st Floor		
8:00pm – 10:00pm	Statistics for the Public Location: Paulinerkirche Chair: Ralf Wagner		
			Tutorial 4: Introduction to Integer-Valued Time Series Location: VG, 1.101

Date: Tuesday, 15th March 2016

15.1.SB: Statistical Bazaar, Permutationstests in faktoriellen Designs					
8:00am -	15.1.SB: Statistical Bazaar, Permutationstests in faktoriellen Designs Location: ZHG, 101 Chair: Markus Pauly				
8:30am -					
8:50am -	15.2.1: Big Data and Data Science Location: ZHG, 105 Chair: Iris Pigeot, Eyke Hüllermeier	15.2.2: Cluster Analysis and Classification - applied Location: ZHG, 006 Chair: Claus Weihs	15.2.3: Official Statistics and Survey Statistics Location: ZHG, 005 Chair: Hans Kiesl	15.2.4: Penalized and Regularized Regression Analysis Location: ZHG, 003 Chair: Andreas Mayr	15.2.5: Research Synthesis and Meta Analysis - invited speaker Location: ZHG, 007 Chair: Heinz Holling
10:10am	15.2.6: Statistics in Agriculture and Ecology - Field Experiments and Longitudinal Data in Agriculture and Ecology Location: ZHG, 102 Chair: Hans-Peter Piepho	15.2.7: Survival and Event History Analysis Location: ZHG, 101 Chair: Jan Beyersmann	15.2.8: Statistik Lehren an Schule und Universität - p-Werte Location: ZHG, 004 Chair: Hubert Merkel, Jochen Kruppa	15.2.9: Time Series Analysis - invited speaker Location: ZHG, 104 Chair: Philipp Sibbertsen	
10:10am -	Coffee break				
10:40am					
10:40am -	15.3: Opening Location: ZHG, 011 Chair: Christine H. Müller				
12:00pm					
12:00pm -	Lunch break				
1:00pm	15.AG.1: AG Lehre Location: ZHG, 004	15.AG.2: AG Nachwuchs Location: ZHG, 104	15.AG.3: AG Datenanalyse und Numerische Klassifikation Location: ZHG, 006	15.AG.4: AG Landwirtschaftliches Versuchen Location: ZHG, 102	15.AG.5: AG Statistische Methoden in der Medizin/ AG Epidemiologische Methoden in der Medizin Location: ZHG, 101

Date: Tuesday, 15th March 2016

1:00pm - 2:20pm	15.4.1: Data Analysis and Marketing Location: ZHG, 006 Chair: Yasemin Boztug, Daniel Baier	15.4.2: Multi Level and Panel Data Analysis - invited speaker Location: ZHG, 102 Chair: Hans-Jürgen Andreß, Kilian Seng	15.4.3: Official Statistics and Survey Statistics Location: ZHG, 005 Chair: Peter Schmidt	15.4.4: Research Synthesis and Meta Analysis Location: ZHG, 007 Chair: Ralf Bender	15.4.5: Statistics in Agriculture and Ecology - Ecological and Environmental Statistics Location: ZHG, 009 Chair: Roland Langrock
	15.4.6: Statistics of High Dimensional Data Location: ZHG, 105 Chair: Taras Bodnar, Tim Beißbarth	15.4.7: Survival and Event History Analysis Location: ZHG, 101 Chair: Christine Eulenburg	15.4.8: Statistik Lehren an Schule und Universität - Übungen Location: ZHG, 004 Chair: Geraldine Rauch, Reinhard Vonthein	15.4.9: Time Series Analysis Location: ZHG, 003 Chair: Christina Stöhr	15.4.10: Young Statisticians Location: ZHG, 104 Chair: Anke Hüls, Benjamin Hofner
2:20pm - 2:50pm	Coffee break				
2:50pm - 4:10pm	15.5.1: Big Data and Data Science Location: ZHG, 102 Chair: Iris Pigeot, Eyke Hüllermeier	15.5.2: Cluster Analysis and Classification - Classification Location: ZHG, 101 Chair: Hans-Joachim Mucha	15.5.3: Design of Experiments Location: ZHG, 009 Chair: Norbert Benda	15.5.4: Multi Level and Panel Data Analysis Location: ZHG, 005 Chair: Hans-Jürgen Andreß, Kilian Seng	15.5.5: Official Statistics and Survey Statistics Location: ZHG, 104 Chair: Peter Schmidt
	15.5.6: Research Synthesis and Meta Analysis Location: ZHG, 007 Chair: Heinz Holling	15.5.7: Small Area Analysis and Spatial Statistics Location: ZHG, 003 Chair: Susanne Schnorr-Bäcker, Volker Schmid	15.5.8: Survival and Event History Analysis Location: ZHG, 006 Chair: Martin Wolkewitz	15.5.9: Statistik Lehren an Schule und Universität - Fortgeschrittene Anwender Location: ZHG, 004 Chair: Mario Hasler, Theodor Framke	15.5.10: Time Series Analysis Location: ZHG, 105 Chair: Christian Leschinski

Date: Tuesday, 15th March 2016

Coffee break, Presentation of the DAGStat Societies

4:10pm -				
4:40pm				
4:40pm -	15.6.1: Design of Experiments Location: ZHG, 102 Chair: Rosemary Bailey	15.6.2: Mathematical Statistics in Life Science Location: ZHG, 104 Chair: Arnold Janssen	15.6.3: Statistics in Clinical and Preclinical Research - Preclinical Location: ZHG, 006 Chair: Meinhard Kieser, Richardus Vonk	15.6.GFKL: Mitgliederversammlung Gesellschaft für Klassifikation Location: ZHG, 101
6:00pm				

Date: Wednesday, 16th March 2016

16.1.SB: Statistical Bazaar - Strukturelle Vektorautoregression					
Location: ZHG, 101 Chair: Helmut Herwartz					
8:00am -	16.2.1: Bioinformatics-Expression data I Location: ZHG, 003 Chair: Harald Binder	16.2.2: Cluster Analysis and Classification - Clustering applied Location: ZHG, 004 Chair: Claus Weihs	16.2.3: Design of Experiments Location: ZHG, 007 Chair: Marc Vandemeulebroecke	16.2.4: Mathematical Statistics in Life Science Location: ZHG, 105 Chair: Arne C. Bathke	16.2.5: Methods for Risk and Benefit Assessment Location: ZHG, 102 Chair: Jürgen Kübler, Angelika May
8:30am -	16.2.6: Penalized and Regularized Regression Analysis Location: ZHG, 101 Chair: Thomas Kneib	16.2.7: Psychometrics - Item Response Theory Location: ZHG, 005 Chair: Carolin Strobl	16.2.8: Statistics in Clinical and Preclinical Research - Miscellaneous Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk	16.2.9: Statistics in Finance Location: ZHG, 006 Chair: Fabian Spanhel	16.2.10: Survival and Event History Analysis Location: ZHG, 009 Chair: Steffen Unkel
Coffee break					
10:10am -					
10:40am -					
10:40am -	16.3: Plenary 1 Location: ZHG, 011 Chair: Tim Friede				
12:00pm -					
12:00pm -	Lunch break				
1:00pm	16.AG.1: AG Bayes Methodik Location: ZHG, 101	16.AG.2: AG Statistische Methoden in der Epidemiologie Location: ZHG, 104	16.AG.3: AG Populationsgenetik und Genomanalyse/ AG Genetische Epidemiologie/ AK Humangenetik der GMSDS Location: ZHG, 102	16.AG.4: AG Biostatistik Location: ZHG, 105	16.AG.5: AG Nichtparametrische Methoden Location: ZHG, 006

Date: Wednesday, 16th March 2016

1:00pm – 2:20pm	16.4.1: Bioinformatics-Expression data II Location: ZHG, 003 Chair: Martin Schäfer	16.4.2: Cluster Analysis and Classification - Clustering Location: ZHG, 004 Chair: Hans-Hermann Bock	16.4.3: Design of Experiments Location: ZHG, 007 Chair: Ralf-Dieter Hilgers	16.4.4: Mathematical Statistics in Life Science Location: ZHG, 009 Chair: Markus Pauly	16.4.5: Penalized and Regularized Regression Analysis Location: ZHG, 105 Chair: Andreas Groll
16.4.6: Psychometrics - invited talk Location: ZHG, 005 Chair: Andreas Frey	16.4.7: Robust and Nonparametric Statistics - Zeitreihen Location: ZHG, 006 Chair: Anne Leucht	16.4.8: Statistics in Clinical and Preclinical Research - PreClinical / Small Samples Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk	16.4.9: Statistics in Finance Location: ZHG, 101 Chair: Yarema Okhrin	16.4.10: Survival and Event History Analysis Location: ZHG, 102 Chair: Christian Röver	
2:20pm – 2:50pm	Coffee break				
2:50pm – 4:10pm	16.5: Award Session (GfKL und IBS-DR) Location: ZHG, 009 Chair: Tim Friede, Berthold Lausen	16.5.1: Observational Studies- Lessons Learned (?) Location: ZHG, 104 Chair: Ralph Brinks, Irene Schmidtmann	16.5.2: Psychometrics - Statistical Foundations of Psychometrics Location: ZHG, 102 Chair: Rolf Steyer	16.5.3: Statistics in Finance Location: ZHG, 101 Chair: Holger Fink	
4:10pm – 4:40pm	Coffee break				

Date: Wednesday, 16th March 2016			
4:40pm – 6:00pm	<p>16.6.1: Panel Discussion - The Future of Science Publishing Location: ZHG, 010 Chair: Karl Mosler</p>	<p>16.6.2: Observational Studies - Statistical Methods in Practice Location: ZHG, 104 Chair: Sigrid Behr, Anne Lotz</p>	<p>16.6.3: Psychometrics - Assessment Methods and Applications Location: ZHG, 102 Chair: Klaus D. Kubinger</p>
		<p>16.6.4: Statistics in Finance Location: ZHG, 101 Chair: Vasy Golosnoy</p>	
6:00pm – 10:00pm	<p>16.7 Poster: Poster Session Location: ZHG, Foyer</p>	<p>16.7.AG.1: AG Leiter Treffen Location: ZHG, 105</p>	

Date: Thursday, 17th March 2016

17.1.SB: Statistical Bazaar - Alarm! Statistical methods for the online monitoring of count data Location: ZHG, 101 Chair: Michael Höhle					
8:00am – 8:30am	17.1.SB: Statistical Bazaar - Alarm! Statistical methods for the online monitoring of count data Location: ZHG, 101 Chair: Michael Höhle	17.2.1: Bioinformatics- Data integration I Location: ZHG, 005 Chair: Hans A. Kestler	17.2.2: Computational Statistics and Statistical Software - Spatial and Spatio-Temporal Analysis Location: ZHG, 009 Chair: Achim Zeileis, Matthias Schmid	17.2.3: Destroying data as a means of data protection – is it ethical? Location: ZHG, 101 Chair: Iris Pigot, Ronja Foraita	17.2.4: Machine learning - Machine Learning for Big Data Location: ZHG, 104 Chair: Myra Spiliopoulou
8:50am – 10:10am	17.2.1: Bioinformatics- Data integration I Location: ZHG, 005 Chair: Hans A. Kestler	17.2.2: Computational Statistics and Statistical Software - Spatial and Spatio-Temporal Analysis Location: ZHG, 009 Chair: Achim Zeileis, Matthias Schmid	17.2.3: Destroying data as a means of data protection – is it ethical? Location: ZHG, 101 Chair: Iris Pigot, Ronja Foraita	17.2.4: Machine learning - Machine Learning for Big Data Location: ZHG, 104 Chair: Myra Spiliopoulou	17.2.5: Mathematical Statistics in Life Science Location: ZHG, 006 Chair: Edgar Brunner
10:10am – 10:40am	17.2.6: Robust and Nonparametric Statistics - Multivariate Location: ZHG, 003 Chair: Claudia Becker	17.2.7: Statistics in Clinical and Preclinical Research - Adaptive Location: ZHG, 007 Chair: Meinhard Kieser, Richardus Vonk	17.2.8: Statistics of High Dimensional Data Location: ZHG, 102 Chair: Waltraud Kahle	17.2.9: Survival and Event History Analysis Location: ZHG, 105 Chair: Waltraud Kahle	17.2.10: Time Series Analysis Location: ZHG, 004 Chair: Silke Weber
Coffee break, Presentation of the DAGStat Societies					
10:10am – 10:40am	Coffee break, Presentation of the DAGStat Societies				
10:40am – 12:00pm	Coffee break, Presentation of the DAGStat Societies				
12:00pm – 12:00pm	Lunch break				
1:00pm	17.3: Plenary 2 Location: ZHG, 011 Chair: Berthold Lausen	17.AG.1: AG Ethik Location: ZHG, 101	17.AG.2: Editorial Board Biometrical Journal Location: ZHG, 102		

Date: Thursday, 17th March 2016

1:00pm – 2:20pm	<p>17.4.1: Education for Statistics in Practice Location: ZHG, 009 Chair: Stephanie Roll, Christoph Muysers</p> <p>17.4.2: Bioinformatics-Data integration II Location: ZHG, 005 Chair: Jörg Rahmenführer</p> <p>17.4.3: Computational Statistics and Statistical Software - Computational Statistical Modeling Location: ZHG, 105 Chair: Achim Zeileis, Matthias Schmid</p> <p>17.4.4: Design of Experiments Location: ZHG, 104 Chair: Ralf-Dieter Hilgers</p> <p>17.4.5: Machine learning - Advanced Supervised Learning Tasks Location: ZHG, 003 Chair: Berthold Lausen</p>
2:20pm – 2:50pm	<p>17.4.6: Mathematical Statistics in Life Science Location: ZHG, 006 Chair: Solomon Woldemariam Harrar</p> <p>17.4.7: Robust and Nonparametric Statistics - invited Location: ZHG, 101 Chair: Roland Fried</p> <p>17.4.8: Statistics in Clinical and Preclinical Research - Adaptive Enrichment Location: ZHG, 007 Chair: Meinhard Kieser, Richardus Vonk</p>
Coffee break	
2:50pm – 4:10pm	<p>17.5.1: Education for Statistics in Practice Location: ZHG, 009 Chair: Stephanie Roll, Christoph Muysers</p> <p>17.5.2: Computational Statistics and Statistical Software - Statistical Software in R Location: ZHG, 105 Chair: Achim Zeileis, Matthias Schmid</p> <p>17.5.3: Design of Experiments Location: ZHG, 104 Chair: Werner G. Müller</p> <p>17.5.4: Graphical Models and Causal Inference Location: ZHG, 101 Chair: Andreas Geyer-Schulz</p> <p>17.5.5: Machine learning - Tuning and Estimations Location: ZHG, 003 Chair: Jerzy Stefanowski</p> <p>17.5.6: Statistics in Clinical and Preclinical Research - Targeted Therapies Location: ZHG, 007 Chair: Meinhard Kieser, Richardus Vonk</p> <p>17.5.7: Statistics in Natural Sciences and Technology Location: ZHG, 006 Chair: Sonja Kuhnt</p> <p>17.5.8: Survival and Event History Analysis Location: ZHG, 102 Chair: Udo Kamps</p>

Date: Thursday, 17th March 2016

4:40pm - 6:00pm	17.6.IBS-DR: Mit- gliederversammlung Location: ZHG, 009	17.6.2: Machine learning - Advanced Applications of Machine Learning Location: ZHG, 101 Chair: Ralph Brinks, José M. Pena	17.6.3: Statistics in Natural Sciences and Technology Location: ZHG, 102 Chair: Dirk Surmann	
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Date: Friday, 18th March 2016									
8:00am - 8:30am	18.1.SB: Statistical Bazaar - Analysis of clinical cohort data using nested case-control and case-cohort sampling designs: A powerful and economical tool Location: ZHG, 101 Chair: Kristin Ohneberg								
8:50am - 10:10am	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; padding: 5px;">18.2.1: Bioinformatics-Networks and Proteomics Location: ZHG, 004 Chair: Manuela Zucknick</td> <td style="width: 25%; padding: 5px;">18.2.2: Empirical Economics and Applied Econometrics Location: ZHG, 003 Chair: Axel Werwatz</td> <td style="width: 25%; padding: 5px;">18.2.3: Penalized and Regularized Regression Analysis Location: ZHG, 007 Chair: Georg Heinze</td> <td style="width: 25%; padding: 5px;">18.2.4: Robust and Nonparametric Statistics - Regression Location: ZHG, 105 Chair: Claudia Becker</td> </tr> <tr> <td style="padding: 5px;">18.2.6: Statistics in Clinical and Preclinical Research - Diagnostics Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk</td> <td style="padding: 5px;">18.2.7: Statistics in Natural Sciences and Technology Location: ZHG, 102 Chair: Christian H. Weiß</td> <td style="padding: 5px;">18.2.8: Structural Equation Modelling Location: ZHG, 101 Chair: Rolf Steyer, Helmut Henwartz</td> <td style="padding: 5px;">18.2.9: Visualisation and Exploratory Data Analysis Location: ZHG, 009 Chair: Christian Hennig</td> </tr> </table>	18.2.1: Bioinformatics-Networks and Proteomics Location: ZHG, 004 Chair: Manuela Zucknick	18.2.2: Empirical Economics and Applied Econometrics Location: ZHG, 003 Chair: Axel Werwatz	18.2.3: Penalized and Regularized Regression Analysis Location: ZHG, 007 Chair: Georg Heinze	18.2.4: Robust and Nonparametric Statistics - Regression Location: ZHG, 105 Chair: Claudia Becker	18.2.6: Statistics in Clinical and Preclinical Research - Diagnostics Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk	18.2.7: Statistics in Natural Sciences and Technology Location: ZHG, 102 Chair: Christian H. Weiß	18.2.8: Structural Equation Modelling Location: ZHG, 101 Chair: Rolf Steyer, Helmut Henwartz	18.2.9: Visualisation and Exploratory Data Analysis Location: ZHG, 009 Chair: Christian Hennig
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18.2.6: Statistics in Clinical and Preclinical Research - Diagnostics Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk	18.2.7: Statistics in Natural Sciences and Technology Location: ZHG, 102 Chair: Christian H. Weiß	18.2.8: Structural Equation Modelling Location: ZHG, 101 Chair: Rolf Steyer, Helmut Henwartz	18.2.9: Visualisation and Exploratory Data Analysis Location: ZHG, 009 Chair: Christian Hennig						
10:10am - 10:40am	18.2.5: Statistics in Agriculture and Ecology - Animal Breeding and Statistical Genetics Location: ZHG, 006 Chair: Norbert Reinsch								
Coffee break									

Date: Friday, 18th March 2016	
10:40am - 12:00pm	<p>18.3.1: Bioinformatics-invited Location: ZHG, 009 Chair: Jörg Rahnenführer, Hans A. Kestler</p> <p>18.3.2: Empirical Economics and Applied Econometrics Location: ZHG, 101 Chair: Helmut Farbmacher</p> <p>18.3.3: Open Topics Location: ZHG, 003 Chair: Fabian Sobotka</p> <p>18.3.4: Penalized and Regularized Regression Analysis Location: ZHG, 007 Chair: Elisabeth Waldmann</p> <p>18.3.5: Robust and Nonparametric Statistics - Strukturbruch Location: ZHG, 105 Chair: Hajo Holzmann</p>
	<p>18.3.6: Statistics in Agriculture and Ecology - Animal Breeding and Agricultural Economics Location: ZHG, 006 Chair: Roland Langrock</p> <p>18.3.7: Statistics in Clinical and Preclinical Research - Phase I / Multi-arm Trials Location: ZHG, 104 Chair: Meinhard Kieser, Richardus Vonk</p> <p>18.3.8: Statistics in Natural Sciences and Technology Location: ZHG, 102 Chair: Sven Knoth</p> <p>18.3.9: Structural Equation Modelling Location: ZHG, 004 Chair: Rolf Steyer, Helmut Herwartz</p> <p>18.3.10: Visualisation and Exploratory Data Analysis Location: ZHG, 005 Chair: Willi Sauerbrei</p>
12:00pm - 1:00pm	<p>18.4: Closing Location: ZHG, 011 Chair: Thomas Kneib</p>

Session Overview

Tuesday, March 15th, 8:50 – 10:10

15.2.1 Big Data and Data Science

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG105

Chair: Iris Pigeot and Eyke Hüllermeier

- 08:50 – 09:10 Prediction-Induced Drift as New Form of Drift
*Anita Hrubos, David Bodnar, **Georg Kreml**, Myra Spiliopoulou*
- 09:10 – 09:30 Mining consumer-generated product-configuration data
*Robin Rüde, Tino Fuhrmann, Thomas Neureuther, Leonard Lausen, **Marvin Schweizer**, Andreas Geyer-Schulz*
- 09:30 – 09:50 Quantifying the quality of text selection in large media corpora
***Lars Koppers**, Gerret von Nordheim, Karin Boczek, Henrik Müller, Jörg Rahnenführer*
- 09:50 – 10:10 Analyzing log data in the social sciences: Methods for test development and research of strategy use.
Florian Kopp

15.2.2 Cluster Analysis and Classification - Classification applied

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG006

Chair: Claus Weihs

- 08:50 – 09:10 Application of Random Forest Analysis to Characterize Hearing Performance
***Maïke Tahden**, Anja Gieseler, Hans Colonius*
- 09:10 – 09:30 Multilabel-Classification for predicting broken Parts of Medical Devices with Machine-Learning R package mlr (Master Thesis)
Philipp Probst
- 09:30 – 09:50 Benefits of using Longitudinal Data in Discriminant Analysis
***Riham Awad El Saeiti**, Gabriela Czanner, David Hughes, Marta García-Fiñana*
- 09:50 – 10:10 Unequal Priors in Linear Discriminant Analysis
***Carmen van Meeën**, Sarah Schnackenberg, Uwe Ligges*

15.2.3 Official Statistics and Survey Statistics

Date: Tuesday, March 15th, 8:50 – 10:10 *Location:* ZHG005

Chair: Hans Kiesl

- 08:50 – 09:10 Occupation Coding during the Interview
Malte Schierholz
- 09:10 – 09:30 Detecting outliers in weighted univariate survey data
Anna Pauliina Sandqvist
- 09:30 – 09:50 Measuring geographical information of web survey respondents
Barbara Felderer, Annelies Blom
- 09:50 – 10:10 Assessing and Explaining Strategic Voting with Survey Data: A Finite Mixture Discrete Choice Model
Martin Elf

15.2.4 Penalized and Regularized Regression Analysis

Date: Tuesday, March 15th, 8:50 – 10:10 *Location:* ZHG003

Chair: Andreas Mayr

- 08:50 – 09:10 Regularization methods in statistical modelling - A comparison between gradient boosting and the lasso
Tobias Hepp, Andreas Mayr, Matthias Schmid
- 09:10 – 09:30 Regularized censored regression with conditional heteroskedasticity
Jakob W. Messner, Achim Zeileis
- 09:30 – 09:50 A General Framework for the Selection of Effect Type in Ordinal Regression
Wolfgang Pöbnecker, Gerhard Tutz
- 09:50 – 10:10 On variable selection and shrinkage strategies to derive multivariable regression models
Willi Sauerbrei, Hans Van Houwelingen

15.2.5 Research Synthesis and Meta Analysis

Date: Tuesday, March 15th, 8:50 – 10:10 *Location:* ZHG007

Chair: Heinz Holling

- 08:50 – 09:50 Recent Developments in Multivariate Meta-analysis
Larry Hedges
- 09:50 – 10:10 Generalised evidence synthesis for clinical trials in small patient populations
Steffen Unkel, Christian Röver, Tim Friede

15.2.6 Statistics in Agriculture and Ecology - Field Experiments and Longitudinal Data in Agriculture and Ecology

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG102

Chair: Hans-Peter Piepho

- 08:50 – 09:10 Generalized confidence intervals for variation in agricultural field experiments
Johannes Forkman
- 09:10 – 09:30 Plant-pollinator networks in urban landscapes
Hannah Reininghaus, Kristy Udy
- 09:30 – 09:50 Bootstrap confidence intervals to quantify uncertainty on the sediment balance of irrigated rice fields
Johanna Slaets, Georg Cadisch, Hans-Peter Piepho
- 09:50 – 10:10 Analysis of longitudinal veterinary antibiotic consumption data – experiences with generalized linear mixed models in large data sets using SAS
Inga Ruddat, Franziska Lieke, Maria Hartmann, Lothar Kreienbrock

15.2.7 Survival and Event History Analysis

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG101

Chair: Jan Beyersmann

- 08:50 – 09:10 Optimal Imperfect Maintenance in a Multi-State System with Two Failure Types
Waltraud Kahle, Stephanie Dietrich
- 09:10 – 09:30 Multistate models versus combined endpoint analysis in a randomized clinical trial of adaptive servo-ventilation in heart failure patients
Christine Eulenburg, Martin R. Cowie, Holger Woehrle, Helmut Teschler, Eik Vettorazzi, Anika Buchholz, Susanne Lezius, Karl Wegscheider
- 09:30 – 09:50 Dynamic prediction approach to analyse attributable mortality of hospital acquired infections
Maja Katharina von Cube, Martin Schumacher, Martin Wolkewitz
- 09:50 – 10:10 The Effect of Class, Year and Age on Sojourn in a Credit Rating Class: A Likelihood Analysis
Rafael Weissbach, Yongdai Kim

15.2.8 Statistik Lehren an Schule und Universität - p-Werte

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG004

Chair: Hubert Merkel and Jochen Kruppa

08:50 – 09:10 Wie führen Lehrbücher der Statistik den p-Wert ein?

Theodor Framke

09:10 – 09:30 Kaminofen, Torlinientechnik und Tanz-Knigge: Gleichnisse für die Akteure eines statistischen Hypothesentests

Benjamin Mayer

09:30 – 09:50 An Illustrative Analogy for the Comparison of Several Multiplicity Adjustment Methods

Mario Hasler

09:50 – 10:10 Null hypothesis significance testing – what would Fisher say?

Cornelia Ursula Kunz

15.2.9 Time Series Analysis - invited speaker

Date: Tuesday, March 15th, 8:50 – 10:10

Location: ZHG104

Chair: Philipp Sibbertsen

08:50 – 10:10 The cointegrated vector autoregressive model with general deterministic terms

Morten Ørregaard Nielsen

Tuesday, March 15th, 10:40 – 12:00

15.3 Opening

Date: Tuesday, March 15th, 10:40 – 12:00

Location: ZHG011

Chair: Christine H. Müller

10:40 – 11:30 Detecting cellwise outliers

Peter Rousseeuw

Tuesday, March 15th, 13:00 – 14:20

15.4.1 Data Analysis and Marketing

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG006

Chair: Yasemin Boztug

- 13:00 – 13:20 A Comparison of Semiparametric and Parametric SUR Models for Category Pricing
Winfried J. Steiner, Anett Weber, Stefan Lang
- 13:20 – 13:40 Discrete Choice Models on Mobile Devices
Peter Kurz
- 13:40 – 14:00 Kriterien für erfolgreiche Datenfusionen
Heiko Grönitz, Karlheinz Fleischer
- 14:00 – 14:20 Components, Cluster and Correspondence: A data driven approach to consumer behaviour segmentation
Oliver A. Gansser, Karsten Lübke

15.4.2 Multi Level and Panel Data Analysis

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG102

Chair: Hans-Jürgen Andreß and Kilian Seng

- 13:00 – 14:00 Common problems and some solutions in the analysis of cross-national surveys
Joop Hox
- 14:00 – 14:20 Must We All Become Bayesians Now? Improvements to Frequentist Inference in Multilevel Analysis With a Small Number of Clusters
Martin Elff, Susumu Shikano

15.4.3 Official Statistics and Survey Statistics

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG005

Chair: Peter Schmidt

- 13:00 – 13:20 Monitoring Subjective Well-Being: Some New Empirical Evidence for Germany
Erich Oltmanns
- 13:20 – 13:40 A reassessment of quarterly national account estimates and revisions
Rolf Scheufele, Gabriel Zullig
- 13:40 – 14:00 Amtliche Mikrodaten für die empirische Wirtschaftsforschung: Die AFiD-Produkte im FDZ – Möglichkeiten und Grenzen
Florian M. Köhler, Ramona Voshage

14:00 – 14:20 Interviewer Effects in Panel Surveys: The Role of Interviewer-Respondent Familiarity and Panel Experience
Simon Kühne

15.4.4 Research Synthesis and Meta Analysis

Date: Tuesday, March 15th, 13:00 – 14:20 *Location:* ZHG007

Chair: Ralf Bender

13:00 – 13:20 Meta-analysis of full ROC curves based on bivariate time-to-event models for interval-censored data
Annika Hoyer, Stefan Hirt, Oliver Kuß

13:20 – 13:40 A novel Bayesian approach accounting for heterogeneous reference levels in dose-response meta-analyses
Gundula Behrens, Michael F. Leitzmann

13:40 – 14:00 Comparison of two approaches for Meta Analysis of individual patient data
Mariana Saskia Nold, Peter Schlattmann

14:00 – 14:20 Differential behavior of the Paule Mandel and the restricted maximum likelihood method for estimating heterogeneity in network meta-analysis when small studies are more heterogeneous than large studies
Jochem König, Harald Binder

15.4.5 Statistics in Agriculture and Ecology - Ecological and Environmental Statistics

Date: Tuesday, March 15th, 13:00 – 14:20 *Location:* ZHG009

Chair: Roland Langrock

13:00 – 13:40 Integrated population modelling
Byron Morgan

13:40 – 14:00 Realtime Classification of Fish in Underwater Sonar Videos
Ludwig Bothmann, Michael Windmann, Göran Kauermann

14:00 – 14:20 Impact of the introduction of Low Emission Zones in Munich and Berlin, Germany, on air pollution - A reliable analysis using adequate statistical models
Veronika Deffner, Helmut Küchenhoff, Jianwei Gu, Annette Peters, Josef Cyrys

15.4.6 Statistics of High Dimensional Data

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG105

Chair: Taras Bodnar and Tim Reißbarth

- 13:00 – 13:20 A Two-Step Approach to Bayesian Analysis of Sparse Factor Models
Markus Pape
- 13:20 – 13:40 Estimation of Expected Utility Portfolios for Large Dimensional Data
*Taras Bodnar, Yarema Okhrin, **Nestor Parolya***
- 13:40 – 14:00 Comparison of methods for subgroup-specific survival analysis
Katrin Madjar, Jörg Rahnenführer
- 14:00 – 14:20 The lowdown on very low p-values
Paul Eilers

15.4.7 Survival and Event History Analysis

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG101

Chair: Christine Eulenburg

- 13:00 – 13:20 Estimating pregnancy outcome probabilities in the presence of dependent left-truncation
Alisa Anna-Maria Lüll, Jan Beyersmann, Arthur Allignol
- 13:20 – 13:40 The cure-death model – A new approach for a randomised clinical trial design to increase efficiency of clinical endpoint evaluations
Harriet Sommer, Martin Wolkewitz, Martin Schumacher
- 13:40 – 14:00 Bayesian Phase II Optimization for Time-To-Event Data Based on Historical Information
Anja Bertsche, Jan Beyersmann, Frank Fleischer, Gerhard Nehmiz
- 14:00 – 14:20 A multi-state approach to unmask three common types of survival bias in a study about Tamiflu and mortality
Martin Wolkewitz, Martin Schumacher

15.4.8 Statistik Lehren an Schule und Universität - Übungen

Date: Tuesday, March 15th, 13:00 – 14:20

Location: ZHG004

Chair: Geraldine Rauch and Reinhard Vonthein

- 13:00 – 13:20 Interdisciplinary Project in APPLIED SURVEY and ELECTORAL RESEARCH: The Munich Exit Poll Study
Helmut Küchenhoff, Paul Thurner, Andre Klima
- 13:20 – 13:40 Nutzung von E-Quizen und deren Einfluss auf den Lernerfolg in statistischen Großveranstaltungen
Manuel Förster, Constantin Weiser, Andreas Maur

- 13:40 – 14:00 Blended Learning Tools for Large Statistics and Mathematics Courses
Achim Zeileis
- 14:00 – 14:20 Blended Learning - Statistik anwenden in den Agrarwissenschaften
Karin Hartung

15.4.9 Time Series Analysis

Date: Tuesday, March 15th, 13:00 – 14:20 *Location:* ZHG003
Chair: Christina Stöhr

- 13:00 – 13:20 The detection of multiple structural breaks using MOSUM statistics based on estimating functions
Kerstin Reckrühm, Claudia Kirch
- 13:20 – 13:40 The Multiple Filter Test for the Detection of Parameter Changes in Point Processes
Michael Messer, Stefan Albert, Julia Schiemann, Kauê M. Costa, Jochen Roeper, Gaby Schneider
- 13:40 – 14:00 Empirical characteristic function-based estimation for locally stationary processes
Carina Beerling, Anne Leucht, Marco Meyer, Carsten Jentsch
- 14:00 – 14:20 Robust Sequential Change-Point Procedures Based on U-Statistics
Christina Stöhr, Claudia Kirch

15.4.10 Young Statisticians

Date: Tuesday, March 15th, 13:00 – 14:20 *Location:* ZHG104
Chair: Anke Hüls and Benjamin Hofner

- 13:00 – 13:20 Analyzing adverse events by time-to-event models: The CLEOPATRA study as an example
Tanja Proctor, Martin Schumacher
- 13:20 – 13:40 Der Einfluss von Zentralitätsmaßen bei der netzwerkbasiereten penalisierten Regression
Moritz Hanke
- 13:40 – 14:00 Analysing a recent study on childhood maltreatment by means of permutation tests for nonparametric factorial designs
Maria Umlauf, Frank Konietzschke, Katharina Schury, Iris-Tatjana Kollasa, Markus Pauly
- 14:00 – 14:20 Inference for low- and highdimensional multi-group repeated measures designs with unequal covariance matrices
Martin Happ, Solomon W. Harrar, Arne C. Bathke

Tuesday, March 15th, 14:50 – 16:10

15.5.1 Big Data and Data Science

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG102

Chair: Iris Pigeot and Eyke Hüllermeier

14:50 – 15:30 Bayesian inference in deep architectures

Max Welling, *Christos Louizos*

15:30 – 15:50 Random projections for Bayesian regression

Leo N. Geppert, *Katja Ickstadt, Alexander Munteanu, Jens Quedenfeld, Christian Sohler*

15:50 – 16:10 Temporal Aspects in Stream Active Learning

Daniel Kottke, *Georg Krempl, Myra Spiliopoulou*

15.5.2 Cluster Analysis and Classification - Classification

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG101

Chair: Hans-Joachim Mucha

14:50 – 15:50 Symbolic data analysis for post-big data

Masahiro Mizuta

15:50 – 16:10 Classification on large-scale data: Theory and Simulations in the many variables case

Claus Weihs

15.5.3 Design of Experiments

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG009

Chair: Norbert Benda

14:50 – 15:30 Design of Dose-Escalation Trials: Research Spurred by a Trial That Went Wrong

Rosemary Bailey

15:30 – 15:50 Informing the design of early intervention trials for Alzheimer's disease

Marc Vandemeulebroecke, *Johanna Mielke, Tillmann Krahnke, Peter Quarg*

15:50 – 16:10 Choice of doses in phase II/III development programs optimizing the probability of success

Sven Schnaidt, *Meinhard Kieser*

15.5.4 Multi Level and Panel Data Analysis

Date: Tuesday, March 15th, 14:50 – 16:10 *Location:* ZHG005

Chair: Hans-Jürgen Andreß and Kilian Seng

14:50 – 15:10 Longitudinal Data with Missing Data and Measurement Error
Lisa Baganz

15:10 – 15:30 Why and how severe fixed effects imputation might bias your random effects variances
Matthias Speidel, Jörg Drechsler, Joseph Sakshaug

15.5.5 Official Statistics and Survey Statistics

Date: Tuesday, March 15th, 14:50 – 16:10 *Location:* ZHG104

Chair: Peter Schmidt

14:50 – 15:50 Monitoring statistical data preparation
Beat Hulliger, Daniel Kilchmann

15:50 – 16:10 Civic Statistics: towards a new concept for understanding statistics about society
Joachim Engel

15.5.6 Research Synthesis and Meta Analysis

Date: Tuesday, March 15th, 14:50 – 16:10 *Location:* ZHG007

Chair: Heinz Holling

14:50 – 15:10 Die Bewertung von Publikationen mit indirekten Vergleichen und Netzwerk Meta-Analysen
Ralf Bender, Sibylle Sturtz, Corinna Kiefer

15:10 – 15:30 Evaluation nicht-adjustierter indirekter Vergleiche in der Nutzenbewertung - Simulationsstudie für Überlebenszeit-Endpunkte
Sarah Kühnast, Friedhelm Leverkus

15:30 – 15:50 Graphical Exploration of the Impact of Direct Allocations of Missing Binary Outcome Data on the Meta-analysis and Network Meta-analysis Framework
Loukia Maria Spineli, Nikolaos Pandis

15:50 – 16:10 Hypothesis testing for treatment arm differences in network meta-analyses
Lorenz Uhlmann, Katrin Jensen, Meinhard Kieser

15.5.7 Small Area Analysis and Spatial Statistics

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG003

Chair: Susanne Schnorr-Bäcker and Volker Schmid

- 14:50 – 15:10 Spatial Modelling for Birth Weights, PFASs Water Contamination, and Their Dependence
Jonathan Rathjens, Eva-Maria Becker, Hans-Joachim Bücken-Nott, Nils Goeken, Jürgen Hölzer, Katja Ickstadt, Arthur Kolbe, Michael Wilhelm
- 15:10 – 15:30 Black spot detection for traffic accidents on Funen based on hospital admission data
Ulrich Halekoh, Wagner Bonat, Birgit Debrabant, Jacob Hjelmberg, Jens Lauritsen
- 15:30 – 15:50 Modeling non-stationary data for prediction
Helmut Waldl
- 15:50 – 16:10 Graphical Modelling of Multivariate Spatial Point Patterns
Matthias Eckardt

15.5.8 Survival and Event History Analysis

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG006

Chair: Martin Wolkewitz

- 14:50 – 15:10 Performance of Subgroup Selection Rules in Adaptive Enrichment Designs with Time-To-Event Outcome
Johannes Krisam, Meinhard Kieser
- 15:10 – 15:30 A weighted combined effect measure for the analysis of a composite time-to-first-event endpoint with components of different clinical relevance
Geraldine Rauch, Christine Eulenburg, Karl Wegscheider, Meinhard Kieser
- 15:30 – 15:50 The impact of selection bias on test decisions in survival analysis
Marcia Viviane Rückbeil
- 15:50 – 16:10 Multiple imputation for missing covariate data in stratified cause-specific hazards models
Michael Lauseker

15.5.9 Statistik Lehren an Schule und Universität - Fortgeschrittene Anwender

Date: Tuesday, March 15th, 14:50 – 16:10

Location: ZHG004

Chair: Mario Hasler and Theodor Framke

- 14:50 – 15:10 Komplexe statistische Verfahren in der Lehre für Anwender
Hubert Merkel

- 15:10 – 15:30 Teaching statistics to postgraduates: experience from the German Cancer Research Center
Annette Kopp-Schneider
- 15:30 – 15:50 Die Veränderungen der Angst und des Selbstkonzeptes zum Fach Statistik: Ein Pretest-Posttest-Design bei Studierenden der Sozialwissenschaften.
Manuel Förster, Andreas Maur
- 15:50 – 16:10 Empirical Results on Students' Attitudes towards Statistics for People Studying while Working
Karsten Lübke, Thomas Christiaans, Frank P. Schulte

15.5.10 Time Series Analysis

Date: Tuesday, March 15th, 14:50 – 16:10 *Location:* ZHG105
Chair: Christian Leschinski

- 14:50 – 15:10 Robust Inference in Panel Predictive Regressions of Unknown Persistence
Danvee Floro, Matei Demetrescu
- 15:10 – 15:30 How far can we forecast? Statistical tests of the predictive content
Jörg Breitung
- 15:30 – 15:50 Inference in Additive Nonlinear Predictive Models with Regressors of Uncertain Persistence
Matei Demetrescu, Benjamin Hillmann
- 15:50 – 16:10 Multivariate Spurious Long Memory And A Robust Local Whittle Estimator
Christian Leschinski, Philipp Sibbertsen

Tuesday, March 15th, 16:40 – 18:00

15.6.1 Design of Experiments

Date: Tuesday, March 15th, 16:40 – 18:00 *Location:* ZHG102
Chair: Rosemary Bailey

- 16:40 – 17:00 A novel analysis method for the biomarker-strategy design
Cornelia Ursula Kunz, Nigel Stallard
- 17:00 – 17:20 Stratified Randomization in Comparative Clinical Trials in Small Populations
Lukas Malte Aguirre Dávila, Armin Koch
- 17:20 – 17:40 The impact of bias on different randomization procedures
David Schindler, Ralf-Dieter Hilgers, Nicole Heussen, Diane Uschner

17:40 – 18:00 Design of Excipient Compatibility Studies
Wannes GM Akkermans, Hans Copenolle, Sabine Thielges, Peter Goos

15.6.2 Mathematical Statistics in Life Science

Date: Tuesday, March 15th, 16:40 – 18:00 Location: ZHG104

Chair: Arnold Janssen

16:40 – 17:00 Simultaneous testing on different factors/ covariates: from Bonferroni inequality to multiple marginal models
Ludwig A. Hothorn, Christian Ritz, Philip Pallmann

17:00 – 17:20 Two sample Kolmogorov-Smirnov type tests and local levels
Helmut Finner, Veronika Gontscharuk

17:20 – 17:40 Weighted Kolmogorov-Smirnov tests in one- and two-sample problems
Veronika Gontscharuk, Helmut Finner

17:40 – 18:00 Sample Size Determination for General Rank Tests
Edgar Brunner

15.6.3 Statistics in Clinical and Preclinical Research - Preclinical

Date: Tuesday, March 15th, 16:40 – 18:00 Location: ZHG009

Chair: Richardus Vonk

16:40 – 18:00 Statistics and mutagenicity/genotoxicity testing: past and future challenges
David Lovell

Wednesday, March 16th, 8:50 – 10:10

16.2.1 Bioinformatics-Expression data I

Date: Wednesday, March 16th, 8:50 – 10:10 Location: ZHG003

Chair: Harald Binder

08:50 – 09:10 Removing Batch Effects from Longitudinal Gene Expression – Quantile Normalization Plus ComBat as Best Approach for Microarray Transcriptome Data
Christian Müller, Arne Schillert, Caroline Röthemeier, David-Alexandre Trégouët, Carole Proust, Harald Binder, Norbert Pfeiffer, Manfred Beutel, Karl J Lackner, Renate B Schnabel, Laurence Tiret, Philipp S Wild, Stefan Blankenberg, Tanja Zeller, Andreas Ziegler

- 09:10 – 09:30 Statistical analysis of dose- expression data: Fitting sigmoidal dose-response curves to gene expression profiles
Marianna Grinberg, *Xiaoqi Jiang, Jan G. Hengstler, Annette Kopp-Schneider, Jörg Rahnenführer*
- 09:30 – 09:50 Testing Differentially Expressed Genes in Dose-Response Studies and with Ordinal Phenotypes
Jan Gertheiss, *Elizabeth Sweeney, Ciprian Crainiceanu*
- 09:50 – 10:10 Automated identification of outliers in high-throughput expression data
Klaus Jung, *Jochen Kruppa*

16.2.2 Cluster Analysis and Classification - Clustering applied

Date: Wednesday, March 16th, 8:50 – 10:10 *Location:* ZHG004
Chair: Claus Weihs

- 08:50 – 09:10 A classification of elite sports' national systems and its connection with international sporting success
Anne Renaud, *Veerle De Bosscher, Hippolyt Kempf*
- 09:10 – 09:30 Functional data methods for clustering pigs according to their feeding behavior
Annette Möller, *Jan Gertheiss, Engel Hessel*
- 09:30 – 09:50 Netboost: Boosting supported network analysis for highdimensional genomic datasets
Pascal Schlosser, *Nadja Blagitko-Dorfs, Michael Lübbert, Martin Schumacher*
- 09:50 – 10:10 Classification with the pot-pot plot
Oleksii Pokotylo, *Karl Mosler*

16.2.3 Design of Experiments

Date: Wednesday, March 16th, 8:50 – 10:10 *Location:* ZHG007
Chair: Marc Vandemeulebroecke

- 08:50 – 09:10 Design and analysis of a trial to select for stress tolerance
Hans-Peter Piepho, *Mian Faisal Nazir, Kausar Nawaz Shah*
- 09:10 – 09:30 Do we need check plots in field trials?
Jens Möhring, *Eberhard Laubach, Hans-Peter Piepho*
- 09:30 – 09:50 Statistical Evaluation and Analysis of PACTS trials as a series of on-farm strip trials without replicates
Paul Schmidt, *Hans-Peter Piepho*
- 09:50 – 10:10 Application of imperialist competitive algorithm in optimal design
Ehsan Masoudi, *Heinz Holling, Weng Kee Wong*

16.2.4 Mathematical Statistics in Life Science

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG105

Chair: Arne C. Bathke

- 08:50 – 09:10 Comparing laboratory methods with censored observations
Anne Lotz, Dirk Taeger, Katja Ickstadt
- 09:10 – 09:30 Lebenserwartungsvergleiche zwischen einer Patientengruppe und einer Referenzbevölkerung
Georg Zimmermann
- 09:30 – 09:50 Multivariate Survival Analysis
Arnold Janssen
- 09:50 – 10:10 Some remarks on the use and interpretation of resampling tests in the biosciences
Ekkehard Glimm, Siegfried Kropf

16.2.5 Methods for Risk and Benefit Assessment

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG102

Chair: Jürgen Kübler and Angelika May

- 08:50 – 09:30 Creating the future: moving benefit-risk decisions from implicit and qualitative to explicit and quantitative
Lawrence Phillips
- 09:30 – 09:50 Mögliche Auswirkungen aktiver Folgetherapien beim Behandlungswechsel in onkologischen Studien
Lars Beckmann, Ulrich Grouven
- 09:50 – 10:10 Can the labeling of treatment effects be value free?
Werner Vach

16.2.6 Penalized and Regularized Regression Analysis

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG101

Chair: Thomas Kneib

- 08:50 – 09:30 Sensitivity of model assumptions for latent Gaussian models
Håvard Rue
- 09:30 – 09:50 A measure of Bayesian sensitivity to flexible model assumptions using penalised complexity priors: an outline
Morten Holm Falk
- 09:50 – 10:10 Scale-Dependent Priors for Variance Parameters in Structured Additive Distributional Regression
Nadja Klein, Thomas Kneib

16.2.7 Psychometrics - Item Response Theory

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG005

Chair: Carolin Strobl

- 08:50 – 09:10 Different Approaches to Modeling Response Styles in IRT: Threshold and IR-Tree Models
Thorsten Meiser, Ulf Böckenholt
- 09:10 – 09:30 A Simulation Study on Methods of Correcting for the Effects of Extreme Response Style
Eunike Wetzel, Jan R. Böhnke, Norman Rose
- 09:30 – 09:50 Item bias and empirical distribution of Andersen's Likelihood-ratio test in Rasch model based adaptive testing
Klaus D. Kubinger, Jan Steinfeld
- 09:50 – 10:10 Latent state IRT models with latent item difficulty variables
Rolf Steyer, Desiree Thielemann, Marie-Ann Sengewald, Gregor Kappler

16.2.8 Statistics in Clinical and Preclinical Research - Miscellaneous

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG104

Chair: Antje Jahn and Oliver Kuß

- 08:50 – 09:10 Interim decisions in clinical trials with time-to-event surrogate and primary endpoints
Matthias Brückner, Werner Brannath
- 09:10 – 09:30 Multistate and joint modeling of recurrent hospitalizations and mortality in clinical trials: consequences on effect estimation and power
Antje Jahn, Fenja Nickel, Harald Binder
- 09:30 – 09:50 Propensity scores methods and covariate adjustment for four cardiovascular datasets
Markus Christian Elze, John Gregson, Stuart Pocock
- 09:50 – 10:10 Estimability of the treatment effect in the stepped wedge design under consideration of carry-over effects.
Ann Christina Foldenauer

16.2.9 Statistics in Finance

Date: Wednesday, March 16th, 8:50 – 10:10

Location: ZHG006

Chair: Fabian Spanhel

- 08:50 – 09:10 Copula-MGARCH with dynamic conditional covariance decompositions
Helmut Herwartz, Fabian H.C. Raters

- 09:10 – 09:30 Simplified vine copula models: Approximations based on the simplifying assumption
Fabian Spanhel, Malte S. Kurz
- 09:30 – 09:50 Testing the simplifying assumption in high-dimensional vine copulas
Malte S. Kurz, Fabian Spanhel
- 09:50 – 10:10 (Optimally-)Robust Risk Estimation
Peter Ruckdeschel

16.2.10 Survival and Event History Analysis

Date: Wednesday, March 16th, 8:50 – 10:10 *Location:* ZHG009
Chair: Steffen Unkel

- 08:50 – 09:50 Longitudinal perspectives on event history analysis
Robin Henderson
- 09:50 – 10:10 Parametric Non-PH Survival Modelling
Gilbert MacKenzie

Wednesday, March 16th, 10:40 – 11:50

16.3 Plenary 1

Date: Wednesday, March 16th, 10:40 – 11:50 *Location:* ZHG011
Chair: Tim Friede

- 10:40 – 11:50 Mendelian randomization: its potential and pitfalls
Simon Thompson

Wednesday, March 16th, 13:00 – 14:20

16.4.1 Bioinformatics-Expression data II

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG003
Chair: Martin Schäfer

- 13:00 – 13:20 Evaluation of sample size tools for RNA-seq differential expression analysis
Alicia Poplawski, Harald Binder
- 13:20 – 13:40 A novel statistical model for competitive gene set analysis
Birgit Debrabant
- 13:40 – 14:00 Positional Gene Enrichment Analysis
Johann Kraus, Matthias Platzer, Hans Kestler

14:00 – 14:20 Functional Analysis of Biochemical Network Features using Sparse Group Lasso
Satya Swarup Samal, Andreas Weber, Holger Fröhlich

16.4.2 Cluster Analysis and Classification - Clustering

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG004
Chair: Hans-Hermann Bock

13:00 – 13:20 Clustering with mixed-type data and its applications
Manuela Hummel, Annette Kopp-Schneider

13:20 – 13:40 Testing for Compatible Partitions in Graph Clustering
Fabian Ball, Andreas Geyer-Schulz

13:40 – 14:00 Big Data Clustering based on fast Pre-clustering
Hans-Joachim Mucha

14:00 – 14:20 Clustering Multivariate Data Using Weighted Spatial Ranks
Mohammed Baragilly, Biman Chakraborty

16.4.3 Design of Experiments

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG007
Chair: Ralf-Dieter Hilgers

13:00 – 13:20 Considerations on Experimental Designs for Sigmoidal Models
Tobias Mielke

13:20 – 13:40 Optimal Designs for Copula Models
Werner G. Müller

13:40 – 14:00 Generalized resolution for factorial designs
Ulrike Grömping

14:00 – 14:20 Using efficiently the tradeoff accuracy/computing time to design good computer experiments
Guillaume Sagnol, Hans-Christian Hege, Martin Weiser

16.4.4 Mathematical Statistics in Life Science

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG009
Chair: Markus Pauly

13:00 – 14:00 Confidence intervals post-model selection and other topics in model averaging
Gerda Claeskens

14:00 – 14:20 Permuting longitudinal data despite all the dependencies
Sarah Friedrich, Edgar Brunner, Markus Pauly

16.4.5 Penalized and Regularized Regression Analysis

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG105

Chair: Andreas Groll

- 13:00 – 13:20 Lasso with Splines - a Challenge for Boosting?
Manfred Berres
- 13:20 – 13:40 A General Framework for Regression with Functional Data
*Sarah Brockhaus, **Sonja Greven***
- 13:40 – 14:00 Boosting Joint Models for Longitudinal and Time-to-Event Data
Elisabeth Waldmann, Andreas Mayr
- 14:00 – 14:20 Boosting distributional regression models for multivariate responses
Andreas Mayr, Janek Thomas, Nadja Klein

16.4.6 Psychometrics - Statistical Foundations of Psychometrics

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG005

Chair: Rolf Steyer

- 13:00 – 13:20 On Matrix Sampling and Imputation of Context Questionnaires with Implications for the Generation of Plausible Values in Large-Scale Assessments
David Kaplan, Dan Su
- 13:20 – 13:40 Algebraic Solution for Maximum Likelihood Estimator in Structural Equation Models Frequently Used in Psychology
G. Timo von Oertzen, M. Joseph Meyer
- 13:40 – 14:00 Meta-Analysis of Individual Differences Based on Sample Means and Standard Deviations: An Approach Using the Parameters of the Beta-Binomial Distribution
Philipp Doebler, Anna Doebler
- 14:00 – 14:20 Testing for Moderators of Inter-Rater Reliability in Complex Settings As It Applies to Selection Instruments
Patricia Martinkova, Dan Goldhaber

16.4.7 Robust and Nonparametric Statistics

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG006

Chair: Anne Leucht

- 13:00 – 13:20 Markov-switching generalized additive models
Roland Langrock, Thomas Kneib, Théo Michelot, Richard Glennie

- 13:20 – 13:40 Anti-Proportional Bandwidth Selection for Smoothing Sparse and Non-Sparse Functional Data with Covariate Adjustments
Dominik Liebl
- 13:40 – 14:00 Simplicial Depth Tests and Confidence Sets for Growth Models with Application in Engineering
Christoph Kustosz, Christine Müller, Anne Leucht, Martin Wendler
- 14:00 – 14:20 Nonparametric identification and maximum likelihood estimation for hidden Markov models
Grigory Alexandrovich, Hajo Holzmann, Anna Leister

16.4.8 Statistics in Clinical and Preclinical Research - PreClinical / Small Samples

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG104
Chair: Meinhard Kieser

- 13:00 – 13:20 Application of 3PL model to bioassay data with an incomplete dose-response curve
Swetlana Berger, Walter Hoyer, Angela Manginelli, Alexander Pysik
- 13:20 – 13:40 Successful assay validation – how to ensure regulatory acceptance
Walter Hoyer, Tobias Mütze, Alexander Pysik
- 13:40 – 14:00 Validating the similarity of regression curves with regard to small sample sizes
Kathrin Möllenhoff, Holger Dette
- 14:00 – 14:20 Sample size calculation for animal experiments using the Jackknife and bootstrapping
Benjamin Mayer

16.4.9 Statistics in Finance

Date: Wednesday, March 16th, 13:00 – 14:20 *Location:* ZHG101
Chair: Yarema Okhrin

- 13:00 – 14:00 A diagnostic criterion for approximate factor structure
Olivier Scaillet
- 14:00 – 14:20 Bayesian Estimation of the Multi-Period Portfolio Weights for an Exponential Utility
David Bauder, Taras Bodnar, Nestor Parolya, Wolfgang Schmid

16.4.10 Survival and Event History Analysis

Date: Wednesday, March 16th, 13:00 – 14:20

Location: ZHG102

Chair: Christian Röver

- 13:00 – 13:20 Tampered Failure Rate Step-Stress Models Under Interval Monitoring: A Bayesian Approach
Christian Kohl, Maria Kateri
- 13:20 – 13:40 Comparing the Performance of Mixture Models for Human Mortality at the Oldest Ages
Trifon I. Missov, Laszlo Nemeth, Maciej J. Danko
- 13:40 – 14:00 The current duration design for estimating the time to pregnancy distribution: a nonparametric Bayesian perspective
Dario Gasbarra, Elja Arjas, Aki Vehtari, Rémy Slama, Niels Keiding
- 14:00 – 14:20 Shrinkage anticipation and correction by penalized and post-estimation shrinkage methods in Cox regression
Michael Kammer, Daniela Dunkler, Georg Heinze

Wednesday, March 16th, 14:50 – 16:10

16.5 Award Session (GfKL und IBS-DR)

Date: Wednesday, March 16th, 14:50 – 16:10

Location: ZHG009

Chair: Tim Friede and Berthold Lausen

- 14:50 – 15:10 Bernd-Streitberg Preis der Internationalen Biometrischen Gesellschaft - Deutsche Region: Determining optimal cut-offs in the meta-analysis of diagnostic test accuracy studies
Susanne Steinhäuser
- 15:10 – 15:30 Gustav-Adolf-Lienert Preis der Internationalen Biometrischen Gesellschaft - Deutsche Region: Proper handling of over- and under-running in phase II designs for oncology trials
Stefan Englert
- 15:30 – 15:50 Preisträger der Gesellschaft für Klassifikation “best paper Award”

16.5.1 Observational Studies– Lessons Learned (?)

Date: Wednesday, March 16th, 14:50 – 16:10 *Location:* ZHG104

Chair: Ralph Brinks and Irene Schmidtmann

- 14:50 – 15:10 Registry studies and the problem of correct classification of exposure status: challenges and lessons learned
Maria Haller, Michael Kammer, Alexander Kainz, Rainer Oberbauer, Georg Heinze
- 15:10 – 15:30 Statistical Analysis of Hip Replacement Data
Anne Kass, Martin Schumacher, **Guido Schwarzer**
- 15:30 – 15:50 Truncation-by-death bias: Prevalent and relevant in epidemiological and aging cohort studies
Nadine Binder, Anette Blümle, Anne-Sophie Herrnböck, Edith Motschall, Patrick Oeller, Martin Schumacher
- 15:50 – 16:10 Is Propensity Score Matching (strictly) inferior to other matching approaches?
Kilian Seng

16.5.2 Psychometrics - invited talk

Date: Wednesday, March 16th, 14:50 – 16:10 *Location:* ZHG102

Chair: Andreas Frey

- 14:50 – 16:10 Computerized Adaptive Testing: The History, Development and New Directions
Ying 'Alison' Cheng

16.5.3 Statistics in Finance

Date: Wednesday, March 16th, 14:50 – 16:10 *Location:* ZHG101

Chair: Holger Fink

- 14:50 – 15:10 Modeling and forecasting of realized volatility of CO2 emission future contracts
Thijs Benschop
- 15:10 – 15:30 Functional Liquidity and Low-Latency Volatility: The ACD-FunXL Model
Andreas Fuest
- 15:30 – 15:50 Conditional distributions of fractional Lévy processes with application to financial time series and market modelling
Holger Fink

15:50 – 16:10 Nonparametric Prediction of Stock Returns Based on Yearly Data: The Long-Term View
Michael Scholz, Jens Perch Nielsen, Stefan Sperlich

Wednesday, March 16th, 14:50 – 16:10

16.6.1 Panel Discussion - The Future of Science Publishing

Date: Wednesday, March 16th, 16:40 – 18:00 *Location:* ZHG010
Chair: Karl Mosler

Participants: Tim Friede, Clemens Heine, Wolfram Horstmann, Yarema Okhrin, Martin Rasmussen

16.6.2 Observational Studies - Statistical Methods in Practice

Date: Wednesday, March 16th, 16:40 – 18:00 *Location:* ZHG104
Chair: Sigrid Behr and Anne Lotz

16:40 – 17:00 How to assess case-finding in chronic diseases?
Ralph Brinks, Annika Hoyer, Oliver Kuss

17:00 – 17:20 A Bayesian SEIR model with flexible disease transmission rate to analyse the Ebola epidemic in Sierra Leone
Philippe Lambert, Gianluca Frasso

17:20 – 17:40 Extracting a core set of variables for dynamic prediction models by simultaneous variable selection based on pseudo-values
Daniela Zöllner, Irene Schmidtman, Arndt Weinmann, Thomas Gerds, Harald Binder

17:40 – 18:00 Comparing validity of scoring systems after Transarterial Chemoembolization of Hepatocellular Carcinoma
Irene Schmidtman, Roman Kloeckner, Arndt Weinmann, Daniela Zöllner, Harald Binder

16.6.3 Psychometrics - Assessment Methods and Applications

Date: Wednesday, March 16th, 16:40 – 18:00 *Location:* ZHG102
Chair: Klaus D. Kubinger

16:40 – 17:00 Modelling time on task effects between and within experimental time-limit conditions – A GLMM approach
Frank Goldhammer, Ulf Kroehne, Johannes Naumann

17:00 – 17:20 On the estimation of standard errors in cognitive diagnosis models
Michel Philipp, Carolin Strobl, Jimmy de la Torre, Achim Zeileis

- 17:20 – 17:40 Assessing the picture story exercise (PSE) with mixed multinomial logit- and Bradley-Terry-IRT-models
Georg Hosoya, *Gregor Kappler, Felix Schönbrodt*
- 17:40 – 18:00 On the Measurement of Personality Types and Values
Thomas Hummel, *Victoria-Anne Schweigert, Andreas Geyer-Schulz*

16.6.4 Statistics in Finance

Date: Wednesday, March 16th, 16:40 – 18:00 *Location:* ZHG101
Chair: Vasyl Golosnoy

- 16:40 – 17:00 Risks and Opportunities of Social Trading: Econometric Analysis of Social Trading Securities regarding Returns and underlying Virtual Trades.
Alexander Jonen
- 17:00 – 17:20 Finite Sample Tests for Location: Welch vs. Mann-Whitney-Wilcoxon
Vasyl Golosnoy, *Markus Pape*
- 17:20 – 17:40 Optimal shrinkage-based portfolio selection in high dimensions
Taras Bodnar, Yarema Okhrin, Nestor Parolya
- 17:40 – 18:00 A Mixed Frequency Stochastic Volatility Model for Intraday Volatility Dynamics
Jeremias Bekierman, *Bastian Gribisch*

Thursday, March 17th, 8:50 – 10:10

17.2.1 Bioinformatics- Data integration I

Date: Thursday, March 17th, 8:50 – 10:10 *Location:* ZHG005
Chair: Hans A. Kestler

- 08:50 – 09:10 Integrative analysis of multiple genomic variables using Bayesian models
Martin Schäfer, *Hans-Ulrich Klein, Holger Schwender*
- 09:10 – 09:30 Mapping approaches for data integration with prognostic gene signatures
Aslihan Gerhold-Ay, *Johanna Mazur, Leesa Wockner, Joanne Voisey, Ross Young, Charles P Morris, Bruce Lawford, Harald Binder*
- 09:30 – 09:50 Integrating domain knowledge in multi-classifier systems
Ludwig Lausser, *Florian Schmid, Hans A. Kestler*
- 09:50 – 10:10 Exploring the landscape of DNA repair mutations using deep learning for DNA-Seq data and filtering by external knowledge
Moritz Hess, *Danuta Galetzka, Sebastian Zahnreich, Thomas Hankeln, Heinz Schmidberger, Maria Blettner, Manuela Marron, Harald Binder*

17.2.2 Computational Statistics and Statistical Software - Spatial and Spatio-Temporal Analysis

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG009

Chair: Achim Zeileis

08:50 – 09:30 Support of observations and predictions in spatial and temporal statistics: practical aspects and software challenges

Edzer Pebesma

09:30 – 09:50 Spatial Modelling with the R package RandomFields

Martin Schlather

09:50 – 10:10 Conditional Inference Trees for spatial hot spot detection

Markus Loecher

17.2.3 Destroying data as a means of data protection – is it ethical?

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG101

Chair: Iris Pigeot and Ronja Foraita

08:50 – 09:30 Forschungsethik und Datenschutz in Zeiten von Big Data

Bertram Raum

09:30 – 09:50 Sharing clinical trial data on patient level

Martin Posch, Franz König, Peter Bauer

17.2.4 Machine learning - Machine Learning for Big Data

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG104

Chair: Myra Spiliopoulou

08:50 – 09:30 Data Analysis Challenges in Neuroscience: From Experimental Data to Brain Simulation

José M. Pena

09:30 – 09:50 Strategies for classifier updates in ensemble learning from evolving data streams

Dariusz Brzezinski, Jerzy Stefanowski

09:50 – 10:10 Faster Model Based Optimization through Resource Aware Scheduling Strategies

Jakob Richter, Helena Kotthaus, Bernd Bischl, Peter Marwedel, Jörg Rahnenführer, Michel Lang

17.2.5 Mathematical Statistics in Life Science

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG006

Chair: Edgar Brunner

- 08:50 – 09:10 Multivariate Inference, Ranks, Resampling, and the Brain
Arne C. Bathke, Sarah Friedrich, Solomon W. Harrar, Yvonne Höller,
 Frank Konietzschke, Markus Pauly
- 09:10 – 09:30 Multivariate functional principal component analysis for data observed
 on different (dimensional) domains
Clara Happ, Sonja Greven, Volker Schmid
- 09:30 – 09:50 Adding observations in regression analysis
Hilmar Gerhard Drygas

17.2.6 Robust and Nonparametric Statistics

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG003

Chair: Claudia Becker

- 08:50 – 09:10 A test for independence based on the probability weighted empirical
 characteristic function
Anne Leucht, Claudia Strauch, Simos Meintanis
- 09:10 – 09:30 Semi-parametric regional flood frequency analysis
Paul Kinsvater, Roland Fried, Jona Lilienthal, Friederike Deiters
- 09:30 – 09:50 Quantile Constructions for Complete Lattices
Georg Schollmeyer
- 09:50 – 10:10 Representation of sets of distributions and optimal inferential procedures
Robert Schlicht

17.2.7 Statistics in Clinical and Preclinical Research - Adaptive Designs

Date: Thursday, March 17th, 8:50 – 10:10

Location: ZHG007

Chair: Geraldine Rauch

- 08:50 – 09:10 Extending a running exploratory time-to-event trial to a confirmatory
 trial
 Ute von Wangenheim, Birgit Gaschler-Markefski, **Kathrin Stucke-
 Straub**, Frank Fleischer, Meinhard Kieser
- 09:10 – 09:30 New developments in optimal adaptive two-stage designs for single-arm
 trials with binary outcome
Kevin Kunzmann, Meinhard Kieser
- 09:30 – 09:50 Blinded sample size reestimation for time dependent negative binomial
 counts
Thomas Asendorf, Heinz Schmidli, Robin Henderson, Tim Friede

09:50 – 10:10 Permutation tests for adaptive clinical trials
***Florian Klingmueller**, Livio Finos, Martin Posch*

17.2.8 Statistics of High Dimensional Data

Date: Thursday, March 17th, 8:50 – 10:10 *Location:* ZHG102

Chair: Taras Bodnar and Tim Beißbarth

08:50 – 09:30 Identification of Novel Cell Types in the Brain Using Single-Cell Transcriptome Sequencing
Sandrine Dudoit

09:30 – 09:50 Bayesian integrative analysis of omics data: Prediction models with informative selection priors
***Manuel Wiesenfarth**, Manuela Zucknick, Ana Corberán-Vallet*

09:50 – 10:10 Exact and Asymptotic Tests on a Factor Model in Low and Large Dimensions with Applications
***Taras Bodnar**, Markus Reiß*

17.2.9 Survival and Event History Analysis

Date: Thursday, March 17th, 8:50 – 10:10 *Location:* ZHG105

Chair: Waltraud Kahle

08:50 – 09:10 Non-parametric simulation of complex time-to-event data and its application to a simple joint model
***Tobias Bluhmki**, Claudia Schmoor, Arthur Allignol, Jan Beyersmann*

09:10 – 09:30 A flexible nonparametric cure survival model to analyse fertility progression in Germany
***Vincent Bremhorst**, Michaela Kreyenfeld, Philippe Lambert*

09:30 – 09:50 B-splines in generalized progressive hybrid censoring
***Julian Górnny**, Erhard Cramer*

09:50 – 10:10 The Aalen-Johansen estimator for non-Markov multistate data
*Carina Müller, **Jan Beyersmann**, Arthur Allignol*

17.2.10 Time Series Analysis

Date: Thursday, March 17th, 8:50 – 10:10 *Location:* ZHG004

Chair: Silke Weber

08:50 – 09:10 Zero-Inflation Models for Count Data Time Series with a Finite Range
***Tobias Andreas Möller**, Christian H. Weiß, Hee-Young Kim*

- 09:10 – 09:30 Missing data and imputation in periodically correlated heavy tailed processes
Christiana Drake, Jacek Leskow, Aldo Garay
- 09:30 – 09:50 Testing for Zero Inflation and Overdispersion in Poisson INAR(1) Models
Annika Homburg, Christian H. Weiß, Pedro Puig
- 09:50 – 10:10 Locating Gas Emission Sources by using the Gas Concentration in the Air
Silke Weber, Claudia Kirch, Idris Eckley

Thursday, March 17th, 10:40 – 12:00

17.3 Plenary 2

Date: Thursday, March 17th, 10:40 – 12:00 *Location:* ZHG011
Chair: Berthold Lausen

- 10:40 – 12:00 Data-Driven Classification in the Social Sciences
Adalbert Wilhelm

Thursday, March 17th, 13:00 – 14:20

17.4.1 Education for Statistics in Practice (Part I)

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG009
Chair: Stephanie Roll and Christoph Muysers

- 13:00 – 14:20 Variable selection for statistical models: a review and recommendations for the practicing statistician
Georg Heinze, Daniela Dunkler

17.4.2 Bioinformatics - Data integration II

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG005
Chair: Jörg Rahnenführer

- 13:00 – 13:20 Building stable multivariable risk scores in GWAS consortia with partially overlapping SNP data
Anne-Sophie Stöhlker, Alexandra Nieters, Martin Schumacher, Harald Binder
- 13:20 – 13:40 Exploring cell type deconvolution by a weighted regression approach for the resulting groups
Veronika Weyer, Yasmin Abassi, Detlef Schuppan, Ernesto Bockamp, Harald Binder

- 13:40 – 14:00 Mixture of Experts Models for SNP Data Analysis
Julia Schiffner, Holger Schwender
- 14:00 – 14:20 A Bayesian Hierarchical Model for the Analysis of PAR-CLIP Data
Eva-Maria Hüßler, Martin Schäfer, Holger Schwender, Pablo Landgraf

17.4.3 Computational Statistics and Statistical Software - Computational Statistical Modeling

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG105
Chair: Sonja Greven

- 13:00 – 13:20 A conceptual Lego toolbox for Bayesian distributional regression models
Nikolaus Umlauf, Nadja Klein, Meike Köhler, Sonja Greven, Achim Zeileis
- 13:20 – 13:40 Boosting Historical Functional Models with an Application to Fermentation Data
Sarah Brockhaus, Michael Melcher, Friedrich Leisch, Sonja Greven
- 13:40 – 14:00 glmertrees: recursive partitioning of generalized linear mixed models
Marjolein Fokkema, Niels Smits, Achim Zeileis, Torsten Hothorn, Henk Kelderman
- 14:00 – 14:20 Approximating mixture distributions using finite numbers of components
Christian Röver, Tim Friede

17.4.4 Design of Experiments

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG104
Chair: Heiko Großmann

- 13:00 – 13:20 MSE-optimality of crossover designs
Christoph Neumann, Joachim Kunert
- 13:20 – 13:40 On Adaptive Designs for Logistic Models with False Answers
Fritjof Freise, Paul-Christian Bürkner
- 13:40 – 14:00 Optimal Designs for the Prediction in Hierarchical Random Coefficient Regression Models
Maryna Prus, Rainer Schwabe
- 14:00 – 14:20 Optimal designs for full and partial likelihood information
Maria Konstantinou, Stefanie Gisela Marion Biedermann, Alan Charles Kimber

17.4.5 Machine learning - Advanced Applications of Machine Learning

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG003

Chair: José M. Peña

- 13:00 – 13:20 Do little interactions get lost in dark random forests?
*Marvin N. Wright, Andreas Ziegler, **Inke R. König***
- 13:20 – 13:40 Classification of complex diseases based on comprehensive genetic data using machine learning methods
***Damian Gola**, Jeanette Erdmann, Christopher P. Nelson, Niles J. Samani, Heribert Schunkert, Christina Willenborg, Lingyao Zeng, Inke R. König*
- 13:40 – 14:00 Looking smart: Relating gaze patterns to test performance
Benedict Christian Oliver Fabian Fehringer

17.4.6 Mathematical Statistics in Life Science

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG006

Chair: Sarah Friedrich

- 13:00 – 13:20 Asymptotically Robust Permutation Tests for Incomplete Paired Data
***Lubna Amro**, Markus Pauly*
- 13:20 – 13:40 Optimal rates for density estimators for incomplete and inaccurately measured data
Ursula U. Müller
- 13:40 – 14:00 A generalization of Chao's lower bound estimator for zero-truncated one-inflated count data
***Dankmar Böhning**, Panicha Kaskasamkul*
- 14:00 – 14:20 Capture-recapture estimation based upon zero-truncated and one-inflated count data
***Panicha Kaskasamkul**, Dankmar Böhning*

17.4.7 Robust and Nonparametric Statistics

Date: Thursday, March 17th, 13:00 – 14:20 *Location:* ZHG101

Chair: Roland Fried

- 13:00 – 13:20 Sample size planning of two-arm trials generating discrete quantitative data
Stefan Wellek
- 13:20 – 14:20 Monge-Kantorovitch Quantiles, Ranks, and Signs
Marc Hallin

17.4.8 Statistics in Clinical and Preclinical Research - Adaptive Enrichment Designs

Date: Thursday, March 17th, 13:00 – 14:20

Location: ZHG007

Chair: Werner Brannath

- 13:00 – 13:20 Incorporating short-term data in biomarker-based subgroup selection in adaptive enrichment designs
Katharina Hees, Meinhard Kieser
- 13:20 – 13:40 Adaptive enrichment designs for longitudinal data with blinded sample size reestimation
Roland Gerard Gera, Tim Friede
- 13:40 – 14:00 Multi-marker enrichment designs: How to handle heterogeneous treatment effects in stratified clinical trials
Christina Beisel, Axel Benner, Christina Kunz, Annette Kopp-Schneider
- 14:00 – 14:20 Impact of the interim analysis timing on power in adaptive enrichment designs
Laura Kohlhas, Meinhard Kieser

17.4.9 Survival and Event History Analysis

Date: Thursday, March 17th, 13:00 – 14:20

Location: ZHG102

Chair: Maria Kateri

- 13:00 – 13:20 reliability prediction using regression models
Maik Döring
- 13:20 – 13:40 Inference for a Type-I censored sequential k-out-of-n system
Marco Burkschat, Erhard Cramer, Julian Górný
- 13:40 – 14:00 On generalizing the c index for survival data
Janez Stare, Nataša Kejžar
- 14:00 – 14:20 Meta-analysis of type-II right censored samples with adjusted hazard rates
Stefan Bedbur, Udo Kamps

17.4.10 Time Series Analysis

Date: Thursday, March 17th, 13:00 – 14:20

Location: ZHG004

Chair: Kerstin Reckrühm

- 13:00 – 13:20 Forecasting with Quantile Autoregressions
Marc-Oliver Pohle
- 13:20 – 13:40 Ratio Tests under Limiting Normality
Uwe Hassler, Mehdi Hosseinkouchack

- 13:40 – 14:00 Forecasting Stationary Processes under Asymmetric Loss
*Hans-Dieter Heike, Matei Demetrescu, **Anna S. Titova***
- 14:00 – 14:20 LASSO-GARCH Approach
Iryna Okhrin, Ostap Okhrin, Sasa Zikovic

Thursday, March 17th, 14:50 – 16:10

17.5.1 Education for Statistics in Practice (Part II)

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG009
Chair: Stephanie Roll and Christoph Muysers

- 14:50 – 16:10 Variable selection for statistical models: a review and recommendations
for the practicing statistician
Georg Heinze, Daniela Dunkler

17.5.2 Computational Statistics and Statistical Software - Statistical Software in R

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG105
Chair: Matthias Schmid

- 14:50 – 15:10 Modelling ordinal data with random effects: The R-package brms
Paul-Christian Bürkner
- 15:10 – 15:30 Stability selection for boosted generalized additive models for location,
scale and shape
Janek Thomas, Andreas Mayr, Benjamin Hofner, Bernd Bischl
- 15:30 – 15:50 tscount: An R Package for Analysis of Count Time Series Following
Generalized Linear Models
Tobias Liboschik, Roland Fried, Konstantinos Fokianos
- 15:50 – 16:10 papeR: A Toolbox for Writing Pretty Papers and Reports
Benjamin Hofner

17.5.3 Design of Experiments

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG104
Chair: Werner G. Müller

- 14:50 – 15:10 Model robust designs for survival trials
*Maria Konstantinou, Stefanie Gisela Marion Biedermann, Alan Charles
Kimber*

- 15:10 – 15:30 Optimal Design for Multiple Regression with Information Driven by the Linear Predictor
Dennis Schmidt, Rainer Schwabe
- 15:30 – 15:50 Optimal cutpoints for random observations
Marius Schmidt, Rainer Schwabe
- 15:50 – 16:10 Exact designs for partial-profile paired choice experiments
Heiko Großmann

17.5.4 Graphical Models and Causal Inference

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG101
Chair: Andreas Geyer-Schulz

- 14:50 – 15:50 A complete adjustment criterion for the computation of causal effects
Marloes Maathuis, Emilija Perkovic, Markus Kalisch, Johannes Textor
- 15:50 – 16:10 Causal Models in Marketing Research and Practice: A Review
Martin Klarmann

17.5.5 Machine learning - Tuning and Estimations

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG003
Chair: Jerzy Stefanowski

- 14:50 – 15:10 Calibrating random forests for probability estimation
Theresa Dankowski, Andreas Ziegler
- 15:10 – 15:30 On the use of the out-of-bag error for tuning parameter selection in random forests
Silke Janitza
- 15:30 – 15:50 Learning from monitoring unlabelled data under large verification latency
Georg Kreml, Vera Hofer
- 15:50 – 16:10 Online F-Measure Optimization
Robert Busa-Fekete, Eyke Hüllermeier

17.5.6 Statistics in Clinical and Preclinical Research - Targeted Therapies

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG007
Chair: Hans-Jürgen Lomp

- 14:50 – 15:10 Optimizing trial designs for targeted therapies - A decision theoretic approach comparing sponsor and public health perspectives
Thomas Ondra, Sebastian Jobjörnsson, Robert Beckman, Carl-Fredrik Burman, Franz König, Nigel Stallard, Martin Posch

- 15:10 – 15:30 Probability of success for phase III after exploratory biomarker analysis in phase II
Heiko Götte, Marietta Kirchner, Martin Oliver Sailer
- 15:30 – 15:50 Analysis, sample size calculation and recalculation in designs with multiple nested subgroups
Marius Placzek, Tim Friede
- 15:50 – 16:10 Exploratory subgroup analysis by recursive segmentation
Alexander Hapfelmeier

17.5.7 Statistics in Natural Sciences and Technology

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG006
Chair: Sonja Kuhnt

- 14:50 – 15:10 Nonparametric Bayesian System Reliability with Sets of Priors
Gero Walter, Louis Aslett, Frank Coolen
- 15:10 – 15:30 Comparison of prediction intervals for state dependent point processes with application to fatigue experiments
Sebastian Szugat, Christine H. Müller
- 15:30 – 15:50 Uncertainty Development in Process Chains
Oliver Meyer, Jörg Keller, Claus Weihs
- 09:30 – 09:50 Wind Speed and Power Forecasting Under Asymmetric Loss
Daniel Ambach, Wolfgang Schmid

17.5.8 Survival and Event History Analysis

Date: Thursday, March 17th, 14:50 – 16:10 *Location:* ZHG102
Chair: Udo Kamps

- 14:50 – 15:10 Random forests for survival analysis using maximally selected rank statistics
Marvin N. Wright, Theresa Dankowski, Andreas Ziegler
- 15:10 – 15:30 The log-normal shared frailty model: Confidence intervals for the frailty variance
Katharina Hirsch, Andreas Wienke
- 15:30 – 15:50 Pathways from School to Work: Gauging Semi-Markov-Models using Data Features
Ulrich Pötter, Melanie Böwing-Schmalenbrock
- 15:50 – 16:10 Flexible Bayesian Joint Modeling of Longitudinal and Time-to-Event Data with an Application to Antibody Trajectories and Time to Type 1 Diabetes
Meike Köhler, Nikolaus Umlauf, Sonja Greven

17.6.2 Machine learning - Advanced Supervised Learning Tasks

Date: Thursday, March 17th, 16:40 – 18:00 *Location:* ZHG101

Chair: Berthold Lausen

- 16:40 – 17:00 Asymptotic consistency and order specification for logistic classifier chains in multi-label learning
Paweł Teisseyre
- 17:00 – 17:20 Improving Rule-based Classifiers Learned from Class-imbalanced Data
Jerzy Stefanowski
- 17:20 – 17:40 Efficient Global Optimization Using Classical Linear Regression
Daniel Horn, Malte Jastrow, Claus Weihs
- 17:40 – 18:00 Active Selection of Difficult Classes
Marianne Stecklina, Tuan Pham Minh, Tim Sabsch, Cornelius Styp von Rekowski, Daniel Kottke, Georg Kreml, Matthias Deliano, Myra Spiliopoulou

17.6.3 Statistics in Natural Sciences and Technology

Date: Thursday, March 17th, 16:40 – 18:00 *Location:* ZHG102

Chair: Dirk Surmann

- 16:40 – 17:00 On a mixture model for directional data on the sphere with applications to modelling the microstructure of materials
Jürgen Franke, Claudia Redenbach, Na Zhang
- 17:00 – 17:20 A homogeneity test for highly skewed and cross-correlated data in regional flood frequency analysis
Jona Lilienthal, Roland Fried, Andreas Schumann
- 17:20 – 17:40 Exact inference on scaling parameters in norm and antinorm contoured multivariate sample distributions
Wolf-Dieter Richter
- 17:40 – 18:00 Determination of guard bands for quality characteristics using copula-based models for longitudinal data
Vera Hofer, Johannes Leitner, Thomas Nowak, Horst Lewitschnig

Friday, March 18th, 8:50 – 10:10

18.2.1 Bioinformatics- Networks and Proteomics

Date: Friday, March 18th, 8:50 – 10:10*Location:* ZHG004*Chair:* Manuela Zucknick

- 08:50 – 09:10 Temporal centrality measures for incomplete sequences of graph snapshots in dynamic network settings
Moritz Hanke, Ronja Foraita
- 09:10 – 09:30 Information theory-based statistics to detect gene-gene interactions
Paola G. Ferrario, Jörg Malten, Bertram Müller-Myhsok, Kristel Van Steen, Inke R. König
- 09:30 – 09:50 Comparison of preprocessing methods for the Luminex® xMap® technology
Tanja K. Rausch, Arne Schillert, Andreas Ziegler, Angelika Lueking, Hans-Dieter Zucht, Peter Schulz-Knappe
- 09:50 – 10:10 Phylogenetic comparison by similarity search in tandem mass spectra
Vera Rieder, Bernhard Blank-Landeshammer, Karsten Biß, Laxmikanth Kollipara, Albert Sickmann, Jörg Rahnenführer

18.2.2 Empirical Economics and Applied Econometrics

Date: Friday, March 18th, 8:50 – 10:10*Location:* ZHG003*Chair:* Axel Werwatz

- 08:50 – 09:10 Flexible HAR Model for Realized Volatility
*Francesco Audrino, Chen Huang, **Ostap Okhrin***
- 09:10 – 09:30 Electricity Price Forecasting Using Supply-Demand Curves
Florian Ziel, Rick Steinert
- 09:30 – 09:50 Environmental Awareness In Russia
*Dilya Khakimova, **Stefanie Lösch**, Ostap Okhrin, Danny Wende, Hans Wiesmeth*
- 09:50 – 10:10 The synthetic control method: Some small T, small N monte carlo evidence and an application to the effects of privatizing probation services on revoke rates.
Philipp Süß

18.2.3 Penalized and Regularized Regression Analysis

Date: Friday, March 18th, 8:50 – 10:10

Location: ZHG007

Chair: Georg Heinze

- 08:50 – 09:10 The case-crossover design via penalized regression
Sam Doerken, Peggy Sekula, Martin Schumacher
- 09:10 – 09:30 Modeling physical activity data using L0-penalised expectile regression
Fabian Sobotka, Norman Wirsik
- 09:30 – 09:50 Genetic risk scores with weights from elastic net regression: A method to detect gene-environment interactions in small study populations
Anke Hüls, Katja Ickstadt, Tamara Schikowski, Ursula Krämer
- 09:50 – 10:10 Modeling Football Results in Penalized Ordinal Bradley-Terry Models Including Match-specific Covariates
Gunther Schauburger, Andreas Groll

18.2.4 Robust and Nonparametric Statistics

Date: Friday, March 18th, 8:50 – 10:10

Location: ZHG105

Chair: Claudia Becker

- 08:50 – 09:10 Posterior Sensitivity of Variance Priors in Bayesian Structured Additive Regression
Helene Roth, Stefan Lang
- 09:10 – 09:30 Copula-based dependence measures for regression analysis
Eckhard Liebscher
- 09:30 – 09:50 Lower bounds for the rates of convergence in estimation under multi-index constraint
Nora Serdyukova
- 09:50 – 10:10 Comparison of standard and robust logistic regression with different weighting functions
Miriam Kesselmeier, Justo Lorenzo Bermejo

18.2.5 Statistics in Agriculture and Ecology - Animal Breeding and Statistical Genetics

Date: Friday, March 18th, 8:50 – 10:10

Location: ZHG006

Chair: Norbert Reinsch

- 08:50 – 09:10 An alternative model for an analysis of imprinting effects on beef traits in dual-purpose Simmental
Inga Blunk, Manfred Mayer, Henning Hamann, Norbert Reinsch

- 09:10 – 09:30 Can the site-frequency spectrum distinguish population growth from multiple-merger coalescents?
*Bjarki Eldon, Matthias Birkner, Jochen Blath, **Fabian Freund***
- 09:30 – 09:50 A Statistical Framework for Multivariate GWAS using Kernel-based Global Score Test
Ngoc-Thuy Ha, Martin Schlather, Henner Simianer
- 09:50 – 10:10 Validating the use of the theoretical covariance between SNP markers for genetic evaluations in half-sib families
Jan Klosa, Dörte Wittenburg

18.2.6 Statistics in Clinical and Preclinical Research - Diagnostics

Date: Friday, March 18th, 8:50 – 10:10 *Location:* ZHG104
Chair: Carsten Schwenke

- 08:50 – 09:10 Consideration of covariates in diagnostic studies
Antonia Zapf
- 09:10 – 09:30 Confidence Intervals for the difference of proportions adjusted for covariates
***Verena Endriß**, Benjamin Lang, Jan Beyersmann, Frank Fleischer*
- 09:30 – 09:50 Reporting of prognostic tumour markers studies after the introduction of the REMARK guideline needs improvement
***Peggy Sekula**, Mallett Susan, Altman Doug, Sauerbrei Willi*
- 09:50 – 10:10 Modelling of reader effects in diagnostic studies and their comparison using simulation studies
Stefan Beigel

18.2.7 Statistics in Natural Sciences and Technology

Date: Friday, March 18th, 8:50 – 10:10 *Location:* ZHG102
Chair: Wolf-Dieter Richter

- 08:50 – 09:10 Statistical calibration of numerical weather prediction models for renewable energy forecasts
***Marek Brabec**, Pavel Krc, Krystof Eben, Pavel Jurus, Emil Pelikan*
- 09:10 – 09:30 Modell-based Selection of Measuring Positions for Energy Transmission Systems
***Dirk Surmann**, Uwe Ligges, Claus Weihs*
- 15:50 – 16:10 Feasible accurate ARL calculation for MEWMA control charts
Sven Knoth
- 09:50 – 10:10 Statistics against Stoppovers: Predicting the Range of Electrical Vehicles
***Robert Hable**, Christian Kluge*

18.2.8 Structural Equation Modelling

Date: Friday, March 18th, 8:50 – 10:10

Location: ZHG101

Chair: Rolf Steyer

08:50 – 09:50 lavaan and the (computational) history of structural equation modeling
Yves Rosseel

09:50 – 10:10 SEM in Experimental Designs: Is asymptotic theory useful in small data sets?
Steffen-Matthias Kühnel, André Dingelstedt

18.2.9 Visualisation and Exploratory Data Analysis

Date: Friday, March 18th, 8:50 – 10:10

Location: ZHG009

Chair: Christian Hennig

08:50 – 09:50 Combining Data Visualization and Analytics — Examples and Problems
Andreas Buja

09:50 – 10:10 Interactive Scagnostics
Katrin Grimm, Antony Unwin

Friday, March 18th, 10:40 – 12:00

18.3.1 Bioinformatics- invited

Date: Friday, March 18th, 10:40 – 12:00

Location: ZHG009

Chair: Jörg Rahnenführer and Hans A. Kestler

10:40 – 11:40 Custom-tailoring combination drug therapies with bioinformatics
Thomas Lengauer

11:40 – 12:00 Pan-cancer studies with Bayesian rank-based clustering
Manuela Zucknick

18.3.2 Empirical Economics and Applied Econometrics

Date: Friday, March 18th, 10:40 – 12:00

Location: ZHG101

Chair: Helmut Farbmacher

10:40 – 11:20 Identification- and Singularity- Robust Inference for Moment Condition Models
Patrik Guggenberger

- 11:20 – 11:40 Estimation with many weak moment conditions using regularized CUE (MEA)
Helmut Farbmacher
- 11:40 – 12:00 Estimation of a High-Dimensional Random Coefficient Model
Martin Spindler

18.3.3 Open Topics

Date: Friday, March 18th, 10:40 – 12:00 *Location:* ZHG003
Chair: Fabian Sobotka

- 10:40 – 11:00 Beweis der Simes'schen Ungleichung für die F-Tests von normalverteilten korrelierten Variablen
Jürgen Läuter
- 11:00 – 11:20 Beyond exomes: a nonparametric collapsing test for joint analysis of rare variants
Dmitriy Drichel, André Lacour, Christine Herold, Michael Nothnagel, Tim Becker
- 11:20 – 11:40 Mutations causing complex disease may under certain circumstances be protective in an epidemiological sense
Sabine Siegert, Andreas Wolf, David Cooper, Michael Krawczak, Michael Nothnagel

18.3.4 Penalized and Regularized Regression Analysis

Date: Friday, March 18th, 10:40 – 12:00 *Location:* ZHG007
Chair: Elisabeth Waldmann

- 10:40 – 11:00 Sparse Bayesian Modelling for Categorical Predictors
Daniela Pauger, Helga Wagner, Gertraud Malsiner-Walli
- 11:00 – 11:20 Firth's penalized likelihood logistic regression: accurate effect estimates AND predictions?
Angelika Geroldinger, Rainer Puhr, Mariana Nold, Lara Lusa, Georg Heinze
- 11:20 – 11:40 A Bayesian approach to sample selection for non-normal distributed outcomes using copulas
Paul Frederick Victor Wiemann, Nadja Klein, Thomas Kneib
- 11:40 – 12:00 Vines Estimation for Mixed Data using Penalized Splines
Christian Schellhase, Göran Kauermann

18.3.5 Robust and Nonparametric Statistics

Date: Friday, March 18th, 10:40 – 12:00

Location: ZHG105

Chair: Hajo Holzmann

- 10:40 – 11:00 Change Point Inference for Heterogeneous Data
Florian Pein, Hannes Sieling, Axel Munk
- 11:00 – 11:20 Autocovariance estimation in change-point model via difference schemes
Inder Rafael Tecuapetla-Gómez
- 11:20 – 11:40 Robust and nonparametric detection of shifts in time series using two-sample U-statistics and U-quantiles
Roland Fried, Herold Dehling, Martin Wendler

18.3.6 Statistics in Agriculture and Ecology - Animal Breeding and Agricultural Economics

Date: Friday, March 18th, 10:40 – 12:00

Location: ZHG006

Chair: Roland Langrock

- 10:40 – 11:00 Bayessche Schätzung von Markereffekten: Autoregression vs. Random-Walk
Manuela Reichelt, Manfred Mayer, Friedrich Teuscher, Norbert Reinsch
- 11:00 – 11:20 Schätzung von Rekombinationsraten in einer Halbgeschwister-Familie beim Milchrind
Alexander Hampel, Friedrich Teuscher, Dörte Wittenburg
- 11:20 – 11:40 Exploring retail pricing behavior by logistic regressions
Christin Schulze Bisping, Stephan von Cramon-Taubadel

18.3.7 Statistics in Clinical and Preclinical Research - Phase I / Multi-arm Trials

Date: Friday, March 18th, 10:40 – 12:00

Location: ZHG104

Chair: Stefan Wellek

- 10:40 – 11:00 Simultaneous confidence regions for multi-parameter bioequivalence
Philip Pallmann, Thomas Jaki
- 11:00 – 11:20 Recommendations on the use of exact critical values in testing for bioequivalence
Benjamin Lang, Frank Fleischer
- 11:20 – 11:40 A permutation-based approach for three-arm trials with active and placebo controls
Tobias Mütze, Frank Konietzschke, Tim Friede

11:40 – 12:00 Multi-arm trials with multiple primary endpoints and missing values
Mario Hasler, *Ludwig A. Hothorn*

18.3.8 Statistics in Natural Sciences and Technology

Date: Friday, March 18th, 10:40 – 12:00 *Location:* ZHG102

Chair: Sven Knoth

10:40 – 11:20 Optimal design of mixture experiments
Peter Goos

11:20 – 11:40 Modeling and Experimental Design for the Development of robust Gas Sensors
Sebastian Krey, *Margarita Alejandra Rebolledo Coy, Dimitri Gusew, Viktoria Schaale, Jörg Stork, Thomas Bartz-Beielstein*

11:40 – 12:00 Sensitivity analysis, modelling and optimisation in computer experiments by using FANOVA graphs
Sonja Kuhnt

18.3.9 Structural Equation Modelling

Date: Friday, March 18th, 10:40 – 12:00 *Location:* ZHG004

Chair: Helmut Herwartz

10:40 – 11:00 Implicit rescaling in multivariate mixed-effects models with nonmetric outcomes
Christoph Kern, *Petra Stein*

11:00 – 11:20 Is the PLS approach in path modelling a structural equation model (SEM) approach with latent variables or not?
Jörg Betzin

11:20 – 11:40 A Note on Dynamic Identification / Estimation in Feed-back Regression
Jochen Mau

11:40 – 12:00 Invariant Models in Changing Environments
Jonas Peters, *Peter Bühlmann, Nicolai Meinshausen, Mateo Rojas-Carulla, Bernhard Schölkopf*

18.3.10 Visualisation and Exploratory Data Analysis

Date: Friday, March 18th, 10:40 – 12:00 *Location:* ZHG005

Chair: Willi Sauerbrei

10:40 – 11:00 Exploration of the variability of variable selection based on distances between bootstrap sample results
Christian Hennig, *Willi Sauerbrei*

- 11:00 – 11:20 Comparative Analyses on Multiple Outlier Detection Methods for Correlated Covariates
***Shahina Rahman**, Marianne Huebner, Riccardo De Bin, Anne-Laure Boulesteix, Willi Sauerbrei*
- 11:20 – 11:40 Detection of influential points as a byproduct of resampling-based model-building procedures
***Riccardo De Bin**, Willi Sauerbrei, Anne-Laure Boulesteix*
- 11:40 – 12:00 Tensorlab: A toolbox for (multilinear) data analysis
*Martijn Boussé, **Otto Debals**, Frederik Van Eeghem, Nico Vervliet, Lieven De Lathauwer*

Friday, March 18th, 12:00 – 13:00

18.4 Closing

Date: Friday, March 18th, 12:00 – 13:00

Location: ZHG011

Chair: Thomas Kneib

- 12:00 – 13:00 Numerical weather prediction and statistics
Hans Rudolf Künsch

Poster Session

Wednesday, March 16th, 18:00 – 22:00

Location: ZHG, Foyer

- P.1 A First-Difference Penalized Spline Estimator For Panel Data
Peter Pütz, *Thomas Kneib*
- P.2 A Hierarchical Bayesian Model for joint Clustering of Clinical and Heterogenous Omics Data
Ashar Ahmad, *Holger Fröhlich*
- P.3 A Markov regime-switching model of crude oil market integration
Konstantin Kuck, **Karsten Schweikert**
- P.4 A mixture Weibull-Exponential model approach for signal detection using longitudinal electronic health records
Odile Sauzet, *Victoria Cornelius*
- P.5 A multi-economy investigation on permanent and transitory components of inflation uncertainty
Maren Ulm, *Helmut Herwartz, Matthias Hartmann*
- P.6 A multilevel analysis of poverty determinants in old age
Hend Mohammed Kamel Mohammed Gabr
- P.7 A New Computational Method to Make Dynamic Mathematical Models Complete and Consistent
Benjamin Engelhardt, *Maik Kschischo, Holger Fröhlich*
- P.8 A new graphical sensitivity analysis method representing the influence of missing binary outcome data on the overall effect estimates in meta-analysis
Klara Toth-Szabo, *Julia Singer, Lilla Juhasz*
- P.9 A new Method for Non-Negative Tensor Factorization Applied to Binary Test Data
Thomas Siegert, Reinhard Schachtner, Gerhard Pöppel, Elmar W. Lang
- P.10 A problem in reagggregating logit effects
Gregor Kappler, *Andreas Neudecker, Elisa Wiedmann, Rolf Steyer*
- P.11 Aggregated-Data Analysis of the Relationship between Major Components of Native American Ancestry and Mortality due to Gallbladder Cancer in Chile
Justo Lorenzo Bermejo, Felix Boekstegers, Rosa González Silos, Katherine Marcelain, Macarena Fuentes Guajardo, Francisco Rothhammer
- P.12 An application on AR(1) process in quality control
Özlen Erkal Sönmez

- P.13 Analysis of means with the R package 'ANOM'
Philip Pallmann, Ludwig A. Hothorn
- P.14 Application of Causal diagram on DAGITTY Software
Mohammed Elsadig Mansour
- P.15 Asymptotic distribution for a class of general change-point tests and estimators
Stefanie Schwaar
- P.16 Bayesian extrapolation with the help of meta-analytic methods
Kristina Weber, Armin Koch
- P.17 Beyond Mean-Centred Health Effect Assessment. Assessing Comprehensive Health Distributions using Structured Additive Distributional Regression
Alexander Sohn
- P.18 Comparison of high-throughput DNA methylation association analyses approaches with reference-free cell type adjustment
Miriam Kesselmeier, André Scherag
- P.19 Computationally Efficient Estimation of Multinomial and Panel Probit Models
Constantin Weiser, Florian Heiß, Michael Griebel, Jens Oettershagen
- P.20 Construction of confidence intervals for effect measures adjusted for the sensitivity and specificity of a diagnostic test
Áron Dániel Anton, Júlia Singer
- P.21 DoE for analytical method development – how to distinguish good from bad?
Carsten Kauntz, Svetlana Berger, Walter Hoyer, Alexander Pysik
- P.22 Effects of Microscopic Limit Order Book Structure on Price Formation
Martin Uwe Vogt, Stephan Eule
- P.23 Eigen-Epistasis for detecting Gene-Gene interactions
Virginie Stanislas
- P.24 Employing Machine Learning Approaches in Social Scientific Analyses
Arne Bethmann, Jonas Beste
- P.25 Estimators of the false discovery rate and their application in low-dimensional settings
Regina Brinster, Martin Schumacher, Peggy Sekula
- P.26 Evidence synthesis for clinical trials in small populations
Steffen Unkel, Christian Röver, Tim Friede
- P.27 Exact methods for change point detection in binary sequences applied to observational studies
David Ellenberger, Tim Friede
- P.28 Führen p-Werte für Patientencharakteristiken zur Auswahlverzerrung bei publizierten randomisierten Studien?
Johannes Hüsing, Koch Martin

- P.29 Genomic Prediction based on the Epistasis Model: Properties, Problems and Perspectives
Johannes Wolfgang Robert Martini, Valentin Wimmer, Malena Erbe, Henner Simianer
- P.30 Identifying Credit Shocks by Combining Conventional and Statistical Means: Evidence from the US
Hannes Rohloff, Helmut Herwartz
- P.31 Impact of different stratification strategies in a two-phase study on the cardiovascular risk in type 2 diabetic patients
Dirk Enders, Iris Pigeot
- P.32 Inter-linkages between women's intrahousehold bargaining power and clean fuel adoption in sub saharan africa: a simultaneous equation model appication
Soazic Elise Wang Sonne
- P.33 Joint pausiness in parallel spike trains
Matthias Gärtner, Sevil Duvarci, Jochen Roeper, Gaby Schneider
- P.34 Kangaroo: A new R-package for Kernel-Based Pathway Analysis with an Application in Meta-Analysis of Lung Cancer Genome-wide Association Studies
Stefanie Friedrichs, Juliane Manitz, Benjamin Hofner, Christopher I Amos, Paul Brennan, David C Christiani, Rayjean J Hung, Angela Risch, Irene Brüske, Heike Bickeböller
- P.35 Linear and Logistic Regression via LASSO and BOOSTING - A simulation study based on correlated data
Lukas Lasota
- P.36 Local and long-range movement of bumblebees
Kristy Leah Udy, Hannah Reininghaus
- P.37 Logistic difficulties and lack of compliance in a randomized multicentre clinical trial on the rehabilitation of paretic stroke patients: Lessons learned from a study on videotherapy
Christina Loley, Denis Ertelt, Katja Krockenberger, Joseph Classen, Björn Hauptmann, Horst Hummelsheim, Michael Jöbges, Stefan Knecht, Thomas Münte, Jose Valdueza, Ferdinand C. Binkofski, Andreas Ziegler
- P.38 Making research reproducible using literate programming
Sebastian Sauer, Yvonne Ferreira, Sandra Sülzenbrück, Christoph Kurz
- P.39 Minimierungsmethode bei binärem Outcome und kleiner Fallzahl
Christina Fitzner, Lukas Aguirre Dávila, Ralf-Dieter Hilgers
- P.40 Modeling Skewed Distributions for Count Measures in Health Economics
Christoph Franz Kurz, Rolf Holle
- P.41 Modelling Heterogeneous Variance with Spatial Variance Covariance Structure in Maize Trials
Tigist Mideksa Damesa, Jens Möhring, Hans-Peter Piepho
- P.42 Modified correlation and regression method using multi p- and r-value-analysis
Carsten Siewert, Karl Rohn, Hermann Seifert

- P.43 Multi-scale detection of rate and variance changes in point processes
Stefan Albert, Michael Messer, Julia Schiemann, Jochen Roeper, Gaby Schneider
- P.44 Multivariate Neighborhood Penalties in Simultaneous Equation Models
Hauke Rennies, Nadja Klein, Thomas Kneib
- P.45 Non-interest income significance for banks' profits and application of Golden Ratio analysis on Turkish banks' profits
Huseyin Cetin
- P.46 Observation Oriented Modelling as a Data Analytic Tool
Karsten Lübke, Sebastian Sauer
- P.47 Optimal designs for the crossover model with random interactions between units and treatments
Joanna Wiedom, Joachim Kunert
- P.48 Optimality and construction of trial cross experiments
Kazuhiro Ozawa
- P.49 Pathway-based integration of time-series omics data using public database knowledge
Astrid Wachter, Tim Beissbarth
- P.50 Personalized Medicine in Pharma Industry: New Challenges for Data Sciences
Holger Fröhlich, Robert Warnock
- P.51 Pictogramm-Plots mit R
Hans Peter Wolf
- P.52 PlainT: Plain Table Markup Language
Fabian H.C. Raters
- P.53 Price Discovery Measures in Agricultural Markets
Evgenia Pavlova
- P.54 Principle considerations regarding the use of adaptive designs for trials in rare diseases and small populations
Eva Budde, Loukia Spineli, Anika Großhennig, Armin Koch
- P.55 Probabilistic Forecasts of Electricity Prices: A Functional Data Approach
Franziska Schulz, Brenda López Cabrera
- P.56 Randomization does not help much, comparability does
Uwe Saint-Mont
- P.57 Regional health care performance in Europe: A metafrontier approach
Katharina Schley
- P.58 Relationship between lung function and important PROs in COPD patients – early results from the COSYCONET study
Max Westphal, Annika Karch, Armin Koch
- P.59 Seasonality of food poisoning with salmonella enteritidis in years 1999-2014, Poland
Aleksander Owczarek, Ewa Jędrusik, Małgorzata Kowalska
- P.60 Sensitivity Analyses for Informative Censoring
Stefanie Gisela Marion Biedermann, Panayiotis Bompotas, Alan Charles Kimber

- P.61 Simulated multi-pathogen infectious disease system including population level heterogeneity and dependence among pathogens
Abhishek Bakuli, Frank Klawonn, Rafael Mikolajczyk
- P.62 Single-level and multilevel models to analyze binary response data: a comparative study
Nigatu Degu Terye, Yonas Shuke Kitawa, Genanew Timerga Neri
- P.63 Smooth confidence intervals and a goodness of test for the survival function under random right censoring
Dimitris Ioannidis
- P.64 Some comments on mixed model equations
Barbora Arendacka, Simo Puntanen
- P.65 Some discrete modifications of the Benjamini-Hochberg procedure
Sebastian Doehler
- P.66 Some properties of D-optimal designs
Małgorzata Graczyk
- P.67 SPC methods for time-dependent processes of counts
Christian H. Weiß
- P.68 Statistical investigation of the coefficient estimate describing the relationship between a composite score and binary endpoints
Evangelia Christodoulou, Christina Bamia
- P.69 Testing for strict exogeneity in fixed-effects panel data models when both n and T are large.
Alexander Simon Mayer
- P.70 The best number of standby redundancy for parallel $(2, n - 2)$ system
Motahareh Parsa, Hadi Jabbari, Jafar Ahmadi
- P.71 The value and the benefit of a new diagnostic test: Two perspectives to be distinguished
Werner Vach
- P.72 Thoughts on the non-transitivity of certain nonparametric pairwise comparisons
Attila Dávid
- P.73 Track descriptors - automated characterization of cell tracks
Manuel M. Nietert, Michael Haberl, Francesca Oboardi, Alexander Flügel, Franziska Linke, Dieter Kube, Julia Gross, M. Shariful Islam, Tim Beissbarth, Tim Friede
- P.74 tSNR as Feature Selection Technique in SNP Data Analysis
Nazatulshima Binti Hassan
- P.75 What are the determinants of the operational losses severity distribution? A multivariate analysis based on a semi-parametric approach
Julien Hambuckers, Cédric Heuchenne, Olivier Lopez

- P.76 Zum Einfluss von soziodemografischen und Versorgungsstrukturen auf die tatsächliche medizinische Versorgung - Ein PLS-Modell unter Berücksichtigung räumlicher Abhängigkeiten
Jörg Betzin

Special Meetings / Committee Meetings

15.AG.1: AG Lehre

Time: Tuesday, March 15th, 12:00pm – 1:00pm

Location: ZHG, 004

15.AG.2: AG Nachwuchs

Time: Tuesday, March 15th, 12:00pm – 1:00pm

Location: ZHG, 104

15.AG.3: AG Datenanalyse und Numerische Klassifikation

Time: Tuesday, March 15th, 12:00pm – 1:00pm

Location: ZHG, 006

15.AG.4: AG Landwirtschaftliches Versuchswesen

Time: Tuesday, March 15th, 12:00pm – 1:00pm

Location: ZHG, 102

15.AG.5: AG Statistische Methoden in der Medizin/ AG Epidemiologische Methoden in der Medizin

Time: Tuesday, March 15th, 12:00pm – 1:00pm

Location: ZHG, 101

15.6.GFKL: Mitgliederversammlung Gesellschaft für Klassifikation

Time: Tuesday, March 15th, 4:40pm – 6:00pm

Location: ZHG, 101

16.AG.1: AG Bayes Methodik

Time: Wednesday, March 16th, 12:00pm – 1:00pm

Location: ZHG, 101

16.AG.2: AG Statistische Methoden in der Epidemiologie

Time: Wednesday, March 16th, 12:00pm – 1:00pm

Location: ZHG, 104

16.AG.3: AG Populationsgenetik und Genomanalyse/ AG Genetische Epidemiologie/ AK Humangenetik der GMDS

Time: Wednesday, March 16th, 12:00pm – 1:00pm

Location: ZHG, 102

16.AG.4: AG Biostatistik

Time: Wednesday, March 16th, 12:00pm – 1:00pm

Location: ZHG, 105

16.AG.5: AG Nichtparametrische Methoden

Time: Wednesday, March 16th, 12:00pm – 1:00pm

Location: ZHG, 006

16.7.AG.1: AG Leiter Treffen

Time: Wednesday, March 16th, 6:00pm – 10:00pm

Location: ZHG, 105

17.AG.1: AG Ethik

Time: Thursday, March 17th, 12:00pm - 1:00pm

Location: ZHG, 101

17.AG.2: Editorial Board Biometrical Journal

Time: Thursday, March 17th, 12:00pm - 1:00pm

Location: ZHG, 102

17.6.IBS-DR: Mitgliederversammlung Internationale Biometrische Gesellschaft - Deutsche Region

Time: Thursday, March 17th, 4:40pm - 6:00pm

Location: ZHG, 009

Stimmabgabe Beiratswahl

Time: Thursday, March 17th, 9:00am - 4:00pm

Location: ZHG, ConfDesk, first floor

Awards

DAGStat Medal

Following the inaugural awarding of the DAGStat medal in Freiburg in 2013, the DAGStat again honors three fellows for their distinguished contribution to the field of statistics in Germany. This contribution can be in the scientific, educational, social, and administrative area but its impact must have been acknowledged by the statistical community in Germany. The award emphasizes the interdisciplinary commitment of the recipients.

Members of DAGStat's executive board present the DAGStat medal to the recipients as part of the conference dinner accompanied by an honorific speech highlighting the recipients' work.

The DAGStat Medal is awarded to:

Prof. Dr. Hans-Hermann Bock

Prof. Dr. Hans-Jürgen Läuter

Prof. Dr. Peter Wilrich

Award Session (IBS-DR & GfKI)

The German Region of the International Biometric Society (IBS-DR) awards the Bernd Streitberg Award and Gustav Adolf Lienert Award to promising students and young investigators for outstanding theses and publications in the field of biometry. The German Classification Society (GfKI) honors outstanding work of young talents with the best paper award.

The award session will take place on Wednesday, March 16, at 2.50 pm (009 ZHG).

Poster Awards

The DAGStat awards prizes to selected posters. A committee decides on successful candidates during the Poster Session on Wednesday, March 16. Winners of poster prizes will be announced at the message board at the conference office (room 1.140, first floor, ZHG). The award ceremony will be part of the closing session on Friday, March 18, 12pm (room ZHG, 011).

Social Program

Guided City Tour, including: "Sidereal moments of Mathematics - Gauß in Göttingen"

Time: Monday, March 14, 6 pm and 8 pm

Wednesday, March 16, 2 pm

Thursday, March 17, 2 pm

Costs: 4 €, Tours can be booked in English or German.

Meeting point: Starting point is next to the tourist information office, in front of the left entrance of the old town hall (Altes Rathaus).

Welcome Reception

Time: Tuesday, March 15, 7 am

Location: Wilhelmsplatz, "Alte Mensa"

The "alte Mensa" is a newly renovated event location of the Georg-August-University in the city center. Built as a theater it became in 1922 the first "Mensa" (students restaurant) in Germany. Light snacks and drinks are complimentary. Because of limited space, this event had to be pre-booked.

Poster & GfKI Reception

Time: Wednesday, March 16, 6 pm

Location: University Göttingen, "Foyer Zentrales Hörsaalgebäude" (ZHG)

To celebrate the 40th Annual Meeting of the German Classification Society (GfKI), the poster session is combined with a reception including drinks and snacks. The event is planned as an informal gathering.

Conference Dinner

Time: Thursday, March 17, 8 pm

Meeting point: The buses are leaving approximately at 7:30 pm at the tourist bus stop, in front of the train station. The trip is around 15 min. For the transfer back, buses are available at 10 pm, 11 pm and midnight.

Location: Nörten-Hardenberg, Burghotel Hardenberg

Costs: The price including bus transfer is 52 €. Drinks are not included.

Count von Hardenberg's estate¹ is located at the foot of the historic castle ruins with the "Gräfllich von Hardenberg'schen Kornbrennerei" distillery nearby.

¹Homepage of the Count von Hardenberg's estate: <http://www.der-hardenberg.com/>

Acknowledgement

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- Georg August Universität Göttingen
- Stadt Göttingen
- Springer Verlag
- Dittrich and Partner Consulting GmbH
- McKinsey & Company, Inc.

General Information A-Z

Accommodation

For a list of hotels and hostels, please visit:
<http://www.uni-goettingen.de/en/501582.html>

ATMs

Several ATMs are located in the city center and at the train station. On campus, next to the “Mensa’s” main entrance, “Sparkasse” operates an ATM.

Badge

Upon registration at the desk, you will receive your badge and conference materials. You are kindly requested to wear your name badge during all events of the conference.

Bicycle renting

Bicycle rentals are located near the train station (<http://www.marco-bikes.de/>) and close to the campus (<http://www.radomat.de/index.html>).

Certificate of attendance

A certificate of attendance can be downloaded:
<https://www.conftool.pro/dagstat2016/>

Coffee breaks

Coffee, tea, and water for coffee breaks are included in the registration fee and will be served in the ZHG.

Conference materials

Upon registration, you receive a conference bag including program book, abstract book, badge, and vouchers.

Cultural activities

Göttingen is a lively university town with plenty of cafés and bars located in the historical center. With your conference bag you receive a voucher for a guided city tour which leads you to historic sites and tells interesting - sometimes bizarre-anecdotes of Göttingen's history.

Food and Drinks

Lunch is not included in the registration fee. Close to the conference venue you find two university café's and a canteen ("Zentralmensa") which also offer vegetarian and vegan meals. Vouchers can be purchased at the conference office.

Drinks at the welcome reception and the poster session are free of charge.

The price for the conference dinner includes food (buffet) but not drinks.

Language

Conference languages are English and German.

Message Board

A message board at the conference office will display announcements.

Conference desk

The conference office is located in room 1.140 on the first floor of the ZHG.

Organizing institution

*Zentrum für Statistik
Platz der Göttinger Sieben 5
D-37073 Göttingen*

Professuren für Statistik und Ökonometrie, Georg-August-Universität Göttingen

Local Organizing Committee:

Thomas Kneib
Helmut Herwartz
Dörte Dede
Henriette Irmer

Parking

There is generally no public parking space available on the university campus. However, if wheelchair accessible parking is required, please do get in touch with us.

Public Transport

Most places in Göttingen are within walking distance. It is only a 10-minute walk from the train station to the university's main campus and 5 minutes from campus to the city center. If your accommodation is a bit further away, you might consider using public transport. Closest bus stops to the conference venue are "Platz der Göttinger Sieben" (bus lines: 21, 22, 23, 31, 32, 62) and "Auditorium" (bus lines 41, 42, 91, 92).

Taxi

Telephone numbers of cab companies in Göttingen:

Göttinger-Funk-Taxi-Zentrale 0551-69300

Puk minicar 0551-484848

alpha Taxi Reza 0551-5007780

City Plus Taxi Göttingen 0551-34005

Kirchner 0551-7706350

Mein Taxi 0551-9996077

Night & Day Taxi 0551-782828

Taxi Blitz 0551 9997799

Taxi Schweizer 0551-61006

Tourist Information

Göttingen Tourismus e. V.

Altes Rathaus, Markt 9

37073 Göttingen

Venue

Zentrales Hörsaalgebäude (ZHG), Georg-August University Göttingen

Wheelchair access

All conference locations are wheelchair accessible.

Wi-Fi

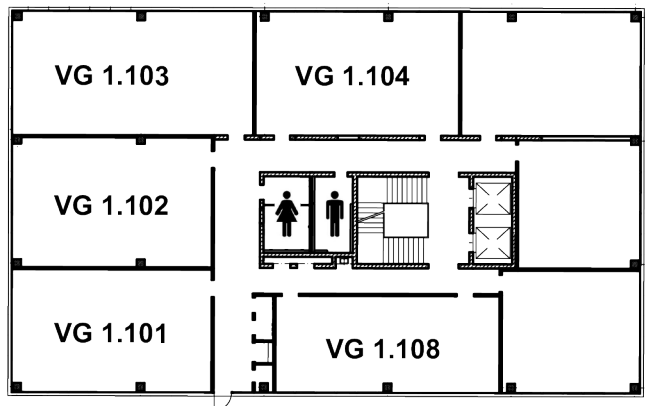
The University of Göttingen is part of the eduroam network allowing you to use your home institution account. If you do not have an eduroam account, you were provided with a guest account upon registration.

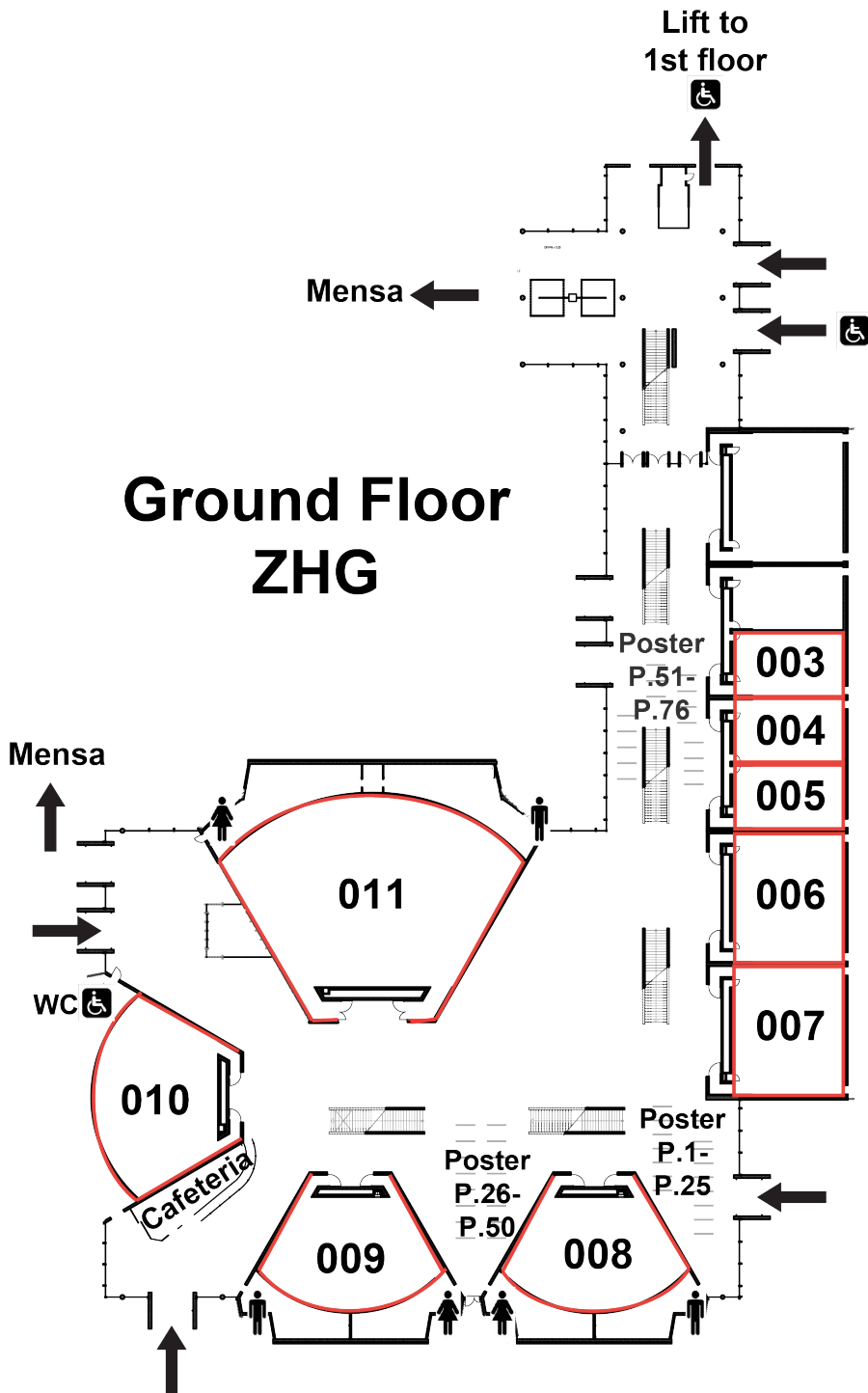
Zentralcampus (central campus)

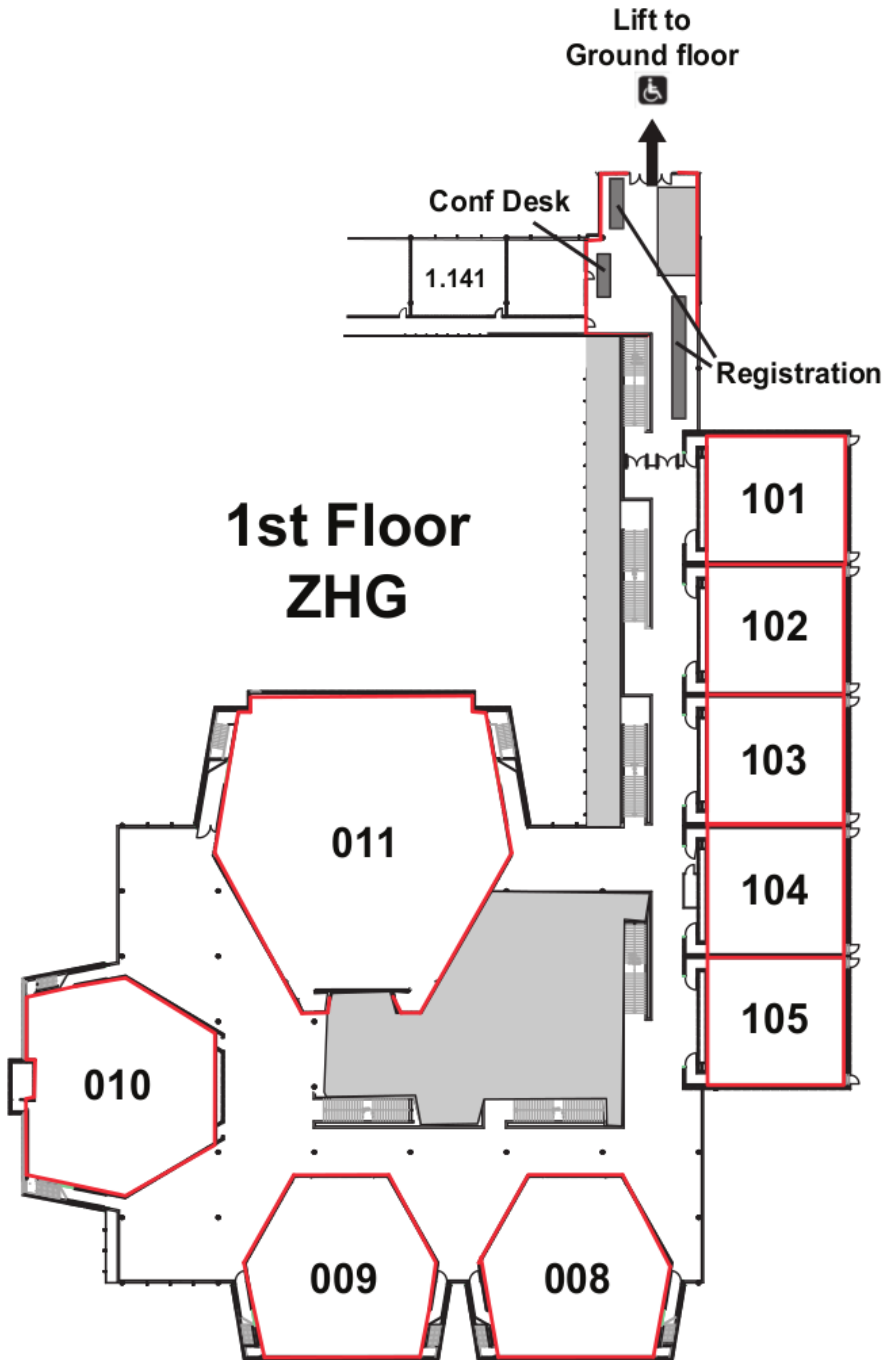


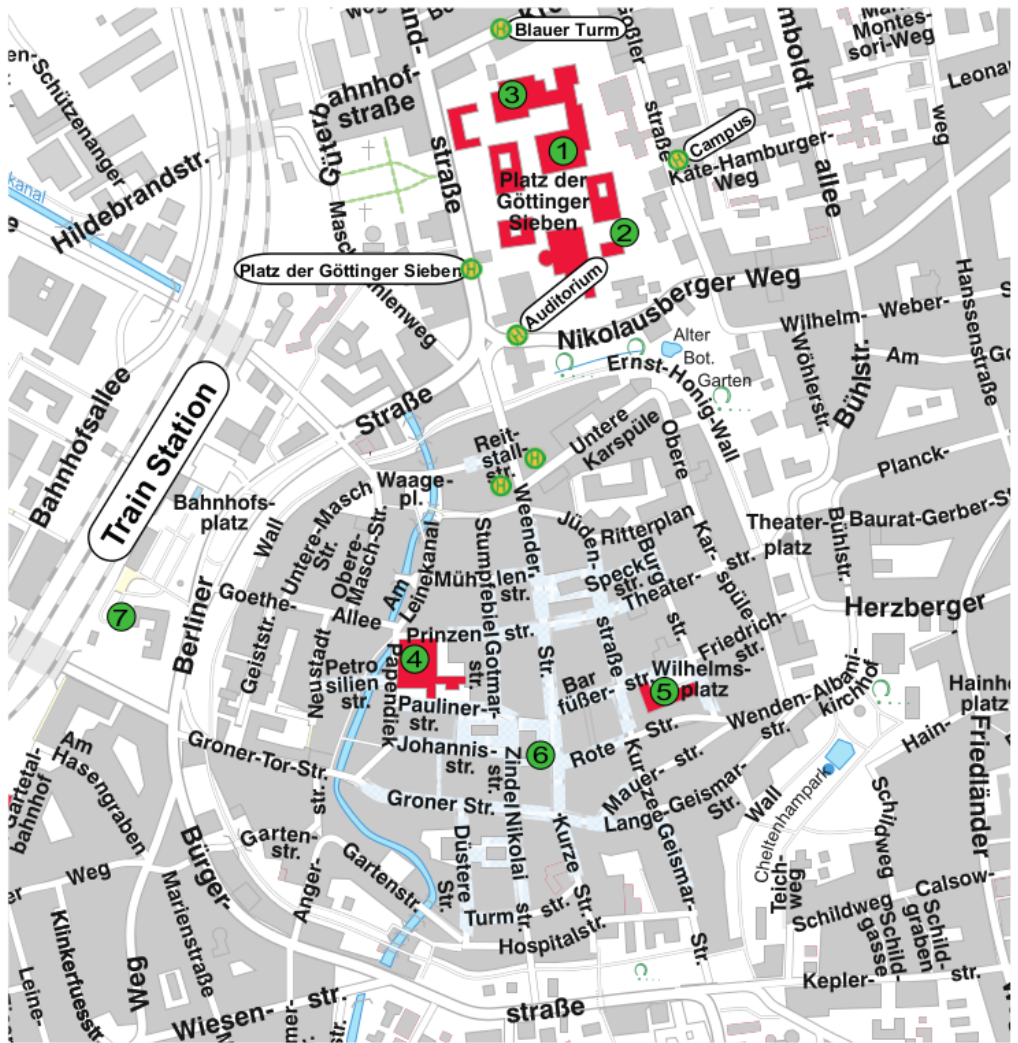
Verfügungsgebäude (VG) 1st Floor

Entrance
Ground Floor









- | | |
|-------------------------------------------|---------------------------------------|
| ① ZHG (Registration and Conference Venue) | ⑤ Alte Mensa (Welcome Reception) |
| ② VG (Tutorials and Lehrtag) | ⑥ Meeting Point City Tour |
| ③ Zentralmensa (Main Refectory) | ⑦ Bus departure for Conference Dinner |
| ④ Paulinerkirche (public talk, in German) | 🚌 public bus stop |