



DAG STAT  
2019

# DAGStat 2019

Statistics under one umbrella

5<sup>TH</sup> JOINT STATISTICAL MEETING  
March 18 – 22, LMU Munich

## Conference Guide



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# Welcome

Dear participants,

this year we are celebrating the fifth joint statistical meeting in Germany hosted by the Ludwig-Maximilians-Universität München. After 2007 in Bielefeld, 2010 in Dortmund, 2013 in Freiburg and 2016 in Göttingen, the tradition of “Statistik unter einem Dach”, which translates to “statistics under one umbrella”, has become an established institution. The meeting includes two annual meetings of societies which are members of the DAGStat, the Deutsche Arbeitsgemeinschaft Statistik, which is an umbrella association of 14 German statistics societies. The annual meetings are the

65th “Biometrisches Kolloquium” and the  
“Spring Meeting of the Deutsche Statistische Gesellschaft”.

The DAGStat 2019 is closely connected to the European Conference on Data Analysis (ECDA2019) in Bayreuth where the annual meeting of the “GfKl Data Science Society”, also a member of the DAGStat, takes place.

DAGStat 2019 in Munich 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 a 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. Aren't these enough reasons to enjoy a stimulating and certainly exciting conference?

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. Dr. Göran Kauermann and Prof. Dr. Helmut Küchenhoff.

We hope that all participants enjoy the meeting. We encourage you to take advantage of the wide range of talks, the poster reception, and two panel discussions. 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 IBS-DR in a dedicated session. Moreover, young-career statisticians can get closer contact to older statistician in the event “Junior meets Senior” by having fun together. Let us all enjoy being part of the big statistical family. Welcome to DAGStat 2019!

Christine Müller  
*Chair of the DAGStat*

Wolfgang Schmid  
*Vice Chair of the DAGStat and President of the DStatG*

Andreas Faldum  
*President of the IBS-DR*

Berthold Lausen  
*Chair of the GfKl Data Science Society*

## Dear colleagues and friends,

on behalf of the local organizing committee, it is our pleasure to welcome all of you to the fifth joint statistical meeting of the German Consortium for Statistics (Deutsche Arbeitsgemeinschaft Statistik, DAGStat) hosted at the Ludwig-Maximilians-Universität München (LMU).

After four successful joint statistical DAGStat conferences in Bielefeld (2007), Dortmund (2010), Freiburg (2013) and Göttingen (2016) the meeting arrived now in Munich and the statistics department at the LMU is happy and proud to host it. Our thanks go to the numerous members of the scientific committee for bringing together more than 400 presentations and excellent invited speakers. We also acknowledge financial support from the Deutsche Forschungsgemeinschaft (DFG) as well as from the LMU itself. Special thanks go to our numerous collaborators from LMU who helped organizing the conference. Without their help we would not have been able to host more than 800 participants.

The DAGStat conference comes at the right time to Munich as it marks the 40th anniversary of the statistics study program at LMU. In 1979, five years after the foundation of the statistics department at LMU, the diploma program (now Bachelor and Master) in statistics started. At that time, the statistics department was affiliated to the faculty of philosophy, what sounds odd today, but demonstrated clearly that the founders of the department considered statistics as an eminent and independent discipline and not a subdivision of mathematics or economics. Though, the statistics department changed its affiliation over the years. Now, it forms with the mathematics and the computer science department together one faculty.

As the role of statistics has changed, the philosophical view has given space for numerical and computational data analytics, which led in Munich to the launch of an international Master program in Data Science ([www.datascience-munich.de](http://www.datascience-munich.de)). The program is jointly run by the statistics department and the computer science department. Data Science is also one of the general topics at this conference. The meeting is organized back to back with the European Conference on Data Analysis (ECDA2019) in Bayreuth. Today's world is changing dramatically and statistics is taking part of it. Digitalization, Big Data, Machine Learning, Data Science are just a few of the hot topics. Some of the phrases are certainly used as buzz words, but the general tendency is that data analytics has become central with the ubiquitous availability of data today. Statistics, as one of the core discipline of data analytics, is more in demand than ever.

The DAGStat theme “Statistics under one umbrella” was launched more than 10 years ago in Bielefeld and DAGStat is turning 14 years old in 2019. The initial idea of collaboration and forming a national statistical community in Germany has proved to be a successful enterprise, which we continue with DAGStat2019 and we hope that you all join us on the way. Live statistics, enjoy Munich and the LMU and carry the burning flame to many future DAGStat events.

Göran Kauermann and Helmut Küchenhoff  
*Chairs of the Local Organizing Committee*

## Members of the Local Organization Committee

Göran Kauermann  
Helmut Küchenhoff  
Alexander Bauer  
Iris Burger  
Cornelius Fritz  
Sevag Kevork  
Michael Lebacher  
Pia Oberschmidt  
Marc Schneble  
Benjamin Sischka  
Michael Windmann

# 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
- 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
- Sektion Methoden der Empirischen Sozialforschung der DGS
- European Network for Business and Industrial Statistics - Deutsche Sektion
- Statistisches Bundesamt
- Sektion Methoden der DVPW



# Scientific Committee

## Chairs:

Christine Müller  
Andreas Faldum  
Berthold Lausen  
Wolfgang Schmid

Technische Universität Dortmund  
Universität Münster  
University of Essex, Colchester  
Europa Universität Viadrina, Frankfurt Oder

## Committee:

Sigrid Behr  
Hartmut Bömermann  
Jörg Breitung  
Philipp Doebler  
Martin Elff  
Joachim Engel  
Tim Friede  
Hajo Holzmann  
Göran Kauermann  
Helmut Küchenhoff  
Sonja Kuhnt  
Heinz Leitgöb  
Yarema Okhrin  
Adalbert Wilhelm  
Antonia Zapf  
Markus Zwick

Novartis, Basel  
Amt für Statistik, Berlin-Brandenburg  
Universität zu Köln  
Technische Universität Dortmund  
Zeppelin Universität, Friedrichshafen  
Pädagogische Hochschule Ludwigsburg  
Georg-August-Universität Göttingen  
Philipps-Universität Marburg  
Local Organizer, LMU München  
Local Organizer, LMU München  
Fachhochschule Dortmund  
Katholische Universität Eichstätt-Ingolstadt  
Universität Augsburg  
Jacobs University Bremen  
Georg-August-Universität Göttingen  
Statistisches Bundesamt, Wiesbaden

# Topics

- Advanced Regression Modelling (Organizers: Thomas Kneib and Sonja Greven; Invited Speaker: Giampiero Marra)
- Causal Inference (Organizers: Heinz Leitgöb and Martin Elff; Invited Speaker: Nanny Wermuth)
- Classification and Pattern Recognition (Organizers: Andreas Geyer-Schulz and Hans Kestler; Invited Speaker: Eyke Hüllermeier)
- Clustering (Organizers: Adalbert Wilhelm and Christian Hennig; Invited Speaker: Ingo Steinwart)
- Computational Statistics and Statistical Software (Organizers: Roland Fried and Gero Szepannek; Invited Speaker: Bettina Grün)
- Data Fusion and Meta-Analysis (Organizer: Tim Friede; Invited Speaker: Thomas P.A. Debray)
- Data Sciences (Organizers: Berthold Lausen and Göran Kauermann; Invited Speaker: Joachim Buhmann)
- Design of Experiments and Clinical Trials (Organizers: Rene Schmidt and Rainer Schwabe; Invited Speaker: James Wason)
- Empirical Economics and Applied Econometrics (Organizers: Ralf Brüggemann and Robert Jung; Invited Speaker: Christiane Baumeister)
- Epidemiology (Organizers: André Karch and Vanessa Didelez; Invited Speaker: Miguel Hernén)
- Latent Variable Modelling (Organizers: Daniel Seddig and Timo von Oertzen; Invited Speaker: David Kaplan)
- Machine Learning (Organizers: Hans Kestler and Tim Beißbarth; Invited Speaker: Günther Palm)
- Marketing and E-Commerce (Organizers: Daniel Baier, Winfried Steiner and Reinhold Decker; Invited Speaker: Friederike Paetz)
- Mathematical Statistics (Organizers: Alexander Meister and Hajo Holzmann; Invited Speaker: Richard Samworth)

- Measurement and Measurement Error (Organizers: Helmut Küchenhoff and Moritz Heene; Invited Speaker: Pamela Shaw)
- Network Analysis (Organizers: Göran Kauermann and Berthold Lausen; Invited Speaker: Pavel Krivitsky)
- Official Statistics and Survey Statistics (Organizers: Florian Keusch and Markus Zwick; Invited Speaker: Piet Daas)
- Preclinical and Pharmaceutical Statistics (Organizers: Antonia Zapf and Vivian Lanius; Invited Speaker: Benjamin Hofner)
- Robust and Nonparametric Statistics (Organizers: Peter Ruckdeschel and Natalie Neumeyer; Invited Speaker: Davy Paindavaine)
- Small Area Analysis and Spatial Statistics (Organizers: Peter Schmidt and Hartmut Bömermann; Invited Speaker: Timo Schmid)
- Small Sample Statistics (Organizers: Robert Kwiecien and Jörg Rahnenführer; Invited Speaker: Malgorzata Bogdan)
- Statistical Literacy and Statistical Education (Organizers: Joachim Engel and Katharina Schüller; Invited Speaker: Laura Martignon)
- Statistics in Agriculture and Ecology (Organizers: Roland Langrock and Hans-Peter Piepho; Invited Speaker: Janine Illian)
- Statistics in Behavioral and Educational Sciences (Organizers: Adalbert Wilhelm and Timo Gnamb; Invited Speaker: Steffi Pohl)
- Statistics in Finance (Organizers: Yarema Okhrin and Markus Bibinger; Invited Speaker: Mathieu Rosenbaum)
- Statistics in Science, Technology and Industry (Organizers: Ansgar Steland and Sonja Kuhnt; Invited Speaker: Axel Gandy)
- Statistics of High dimensional data (Organizers: Taras Bodnar and Markus Pauly; Invited Speaker: Dietrich von Rosen)
- Survival and Event History Analysis (Organizers: Jan Beyersmann and Matthias Schmid; Plenary Speaker: Per Kragh Andersen)
- Time Series Analysis (Organizers: Matei Demetrescu and Carsten Jentsch; Invited Speaker: A.M. Robert Taylor)
- Visualisation and Exploratory Data Analysis (Organizers: Adalbert Wilhelm and Hans Kestler; Invited Speaker: Heike Hofmann)

# Scientific Program

We invite you to join the fifth Joint Statistical Meeting DAGStat2019 in Munich. The meeting includes the 65th "Biometrisches Kolloquium" and the "Spring Meeting of the Deutsche Statistische Gesellschaft".

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 productive 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.

## Conference App

A smartphone app called *Conference4me* for the conference program can be downloaded from the App Store/Play Store. After having installed the app on your mobile device you can search for the conference *DAGStat Conference 2019*. In the app, you can browse through the program which will be updated regularly throughout the conference. Also you can find maps of the conference venue.

# Plenary Talks

**Sara van de Geer (ETH Zürich, CH)**

*Title:* Adaptivity of Signal Priors

*Time:* Tuesday, March 19, 11:10 am

*Location:* Audimax

**Per Kragh Andersen (University of Copenhagen, DK)**

*Title:* Measuring Expected Years of Life Lost

*Time:* Wednesday, March 20, 11:10 am

*Location:* Audimax

**Michael Jordan (University of California, US)**

*Title:* Statistical Machine Learning: Dynamical, Economic and Stochastic Perspectives

*Time:* Thursday, March 21, 11:25 am

*Location:* Audimax

**Donald B. Rubin (Tsinghua University, Beijing, CN, Temple University, Philadelphia, US)**

*Title:* Modern Computing Implementing Classical, But Heretofore Unnurtured Statistical Ideas

*Time:* Friday, March 22, 11:10 am

*Location:* Audimax

# Invited Talks

**Benjamin Hofner (Paul-Ehrlich-Institut (PEI), DE)**

*Title:* Statistical issues in drug development and the role of statisticians in regulatory agencies

*Research Area:* Preclinical and Pharmaceutical Statistics

*Time:* Tuesday, March 19, 9:00 am

*Location:* A 021

**Timo Schmid (Freie Universität Berlin, DE)**

*Title:* Data-driven Transformations for the Estimation of Small Area Means

*Research Area:* Small Area Analysis and Spatial Statistics

*Time:* Tuesday, March 19, 9:00 am

*Location:* A 125

**Nanny Wermuth (Chalmers University of Technology, SE)**

*Title:* How can graphical Markov models aid causal inference?

*Research Area:* Causal Inference

*Time:* Tuesday, March 19, 1:30 pm

*Location:* A 240

**Christiane Baumeister (University of Notre Dame, US)**

*Title:* Structural Interpretation of Vector Autoregressions with Incomplete Identification: Revisiting the Role of Oil Supply and Demand Shocks

*Research Area:* Empirical Economics and Applied Econometrics

*Time:* Tuesday, March 19, 1:30 pm

*Location:* A 214

**David Kaplan (University of Wisconsin, US)**

*Title:* An Approach to Addressing Multiple Imputation Model Uncertainty Using Bayesian Model Averaging

*Research Area:* Latent Variable Modelling

*Time:* Tuesday, March 19, 1:30 pm

*Location:* A 021

**Richard Samworth (University of Cambridge, UK)**

*Title:* Log-concave density estimation

*Research Area:* Mathematical Statistics

*Time:* Tuesday, March 19, 1:30 pm

*Location:* A 119

**Laura Martignon (PH Ludwigsburg, DE)**

*Title:* Statistical Literacy and Statistical Education

*Research Area:* Statistical Literacy and Statistical Education

*Time:* Tuesday, March 19, 1:30 pm

*Location:* A 140

**Janine Illian (University of St. Andrews, UK)**

*Title:* Point processes – abstraction and practical relevance in ecology

*Research Area:* Statistics in Agriculture and Ecology

*Time:* Tuesday, March 19, 3:20 pm

*Location:* D 209

**Thomas P.A. Debray (Julius Center, UMC Utrecht, NL)**

*Title:* Clinical Prediction Models and the role of Evidence Synthesis

*Research Area:* Data Fusion and Meta-Analysis

*Time:* Tuesday, March 19, 5:00 pm

*Location:* E 004

**Piet Daas (CBS, Heerlen, NL)**

*Title:* Using Big Data in Official Statistics

*Research Area:* Official Statistics and Survey Statistics

*Time:* Tuesday, March 19, 5:00 pm

*Location:* A 125

**James Wason (Newcastle University, UK)**

*Title:* Novel designs for trials with multiple treatments and subgroups

*Research Area:* Design of Experiments and Clinical Trials

*Time:* Wednesday, March 20, 9:00 am

*Location:* E 004

**Pamela Shaw (University of Pennsylvania, US)**

*Title:* Estimation methods to address correlated covariate and time-to-event error

*Research Area:* Measurement and Measurement Error

*Time:* Wednesday, March 20, 9:20 am

*Location:* A 213

**Steffi Pohl (Freie Universität Berlin, DE)**

*Title:* Using timing information to model missing values in test data

*Research Area:* Statistics in Behavioral and Educational Sciences

*Time:* Wednesday, March 20, 9:00 am

*Location:* A 017

**Mathieu Rosenbaum (Ecole Polytechnique, FR)**

*Title:* How do market participants contribute to market quality? A statistical approach

*Research Area:* Statistics in Finance

*Time:* Wednesday, March 20, 1:30 pm

*Location:* E 004

**Axel Gandy (Imperial College London, UK)**

*Title:* Some examples of handling uncertainty in industrial applications

*Research Area:* Statistics in Science, Technology and Industry

*Time:* Wednesday, March 20, 1:30 pm

*Location:* A 240

**Eyke Hüllermeier (Universität Paderborn, DE)**

*Title:* Analyzing and Learning from Ranking Data: New Problems and Challenges

*Research Area:* Classification and Pattern Recognition

*Time:* Thursday, March 21, 9:00 am

*Location:* E 004

**Joachim Buhmann (ETH Zürich, CH)**

*Title:* Robust algorithmics: a foundation for science?!

*Research Area:* Data Sciences

*Time:* Thursday, March 21, 9:00 am

*Location:* D 209

**Miguel Hernán (Harvard T.H. Chan School of Public Health, US)**

*Title:* Estimating per-protocol effects. Randomized trials analyzed like observational studies

*Research Area:* Epidemiology

*Time:* Thursday, March 21, 9:00 am

*Location:* A 240



**Friederike Paetz (TU Clausthal, DE)**

*Title:* Latent Class Analysis in Marketing: Drawing Inferences for Social Brand Personalities

*Research Area:* Marketing and E-Commerce

*Time:* Thursday, March 21, 9:00 am

*Location:* A 119

**Malgorzata Bogdan (University of Wroclaw, PL)**

*Title:* Convex optimization methods for identifying predictors when  $n < p$

*Research Area:* Small Sample Statistics

*Time:* Thursday, March 21, 9:20 am

*Location:* A 125

**Ingo Steinwart (Universität Stuttgart, DE)**

*Title:* Aspects of adaptive density-based cluster analysis

*Research Area:* Cluster Analysis and Classification

*Time:* Thursday, March 21, 1:30 pm

*Location:* A 213

**Pavel Krivitsky (University of Wollongong, AU)**

*Title:* Inference for Social Network Models from Egocentrically-Sampled Data

*Research Area:* Network Analysis

*Time:* Thursday, March 21, 1:30 pm

*Location:* A 119

**Heike Hofmann (Iowa State University, US)**

*Title:* Visual Inference: leveraging the power of our eyes

*Research Area:* Visualisation and Exploratory Data Analysis

*Time:* Thursday, March 21, 1:30 pm

*Location:* A 125

**Bettina Grün (Johannes Kepler Universität Linz, AT)**

*Title:* Identifying Mixtures of Mixtures Using Bayesian Estimation

*Research Area:* Computational Statistics and Statistical Software

*Time:* Thursday, March 21, 3:20 pm

*Location:* A 240

**Davy Paindaveine (Université Libre de Bruxelles, BE)**

*Title:* Halfspace depth for scatter matrices

*Research Area:* Robust and Nonparametric Statistics

*Time:* Thursday, March 21, 3:20 pm

*Location:* D 209

**Dietrich von Rosen (Swedish University of Agricultural Sciences, SE)**

*Title:* The Growth Curve model under high dimensions with applications to profile analysis

*Research Area:* Statistics of High Dimensional Data

*Time:* Thursday, March 21, 5:00 pm

*Location:* D 209

**Giampiero Marra (University College London, UK)**

*Title:* Generalised Joint Regression Modelling

*Research Area:* Advanced Regression Modelling

*Time:* Friday, March 22, 9:00 am

*Location:* A 021

**Günther Palm (University of Ulm, DE)**

*Title:* Learning in artificial and real neural networks

*Research Area:* Machine Learning

*Time:* Friday, March 22, 9:00 am

*Location:* A 140

**A.M. Robert Taylor (University of Essex, UK)**

*Title:* Detecting Regimes of Predictability in the U.S. Equity Premium

*Research Area:* Time Series Analysis

*Time:* Friday, March 22, 9:00 am

*Location:* A 240

# Tutorials

## Adaptive Designs for Clinical Trials

*Time: Monday, March 18, 9:00 am – 5:00 pm*

*Location: A 014*

*Speakers: Frank Bretz, Tim Friede and Jim Hung (by video conference)*

## Bayesian Data Analysis using Stan

*Time: Monday, March 18, 1:00 pm – 5:00 pm*

*Location: A 017*

*Speaker: Paul Bürkner*

## Spatio-Temporal Modeling

*Time: Monday, March 18, 10:00 am – 4:30 pm*

*Location: A 021*

*Speaker: Thomas Kneib*

# Guideline for Presentation

## Talks

Please bring your presentation slides saved on a USB stick to the registration desk in room A 120). The staff will copy them onto a computer so that the presentation can be provided at the beginning of your talk. Please introduce yourself to the chair of your session 15 minutes before the session starts. The DAGStat assistants (red LMU 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 prefer 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 Session

Posters will be displayed on the first floor of the main building (Dekanatsgang) and in the Senatssaal (Room E 106). Please put up your poster on Wednesday, March 20, before 4:30 pm. Your poster ID can be found in the program booklet as well as on the poster boards. Pins to fix your poster will be provided at the entrance of the Senatssaal. Please remove your poster from the poster boards after the session has ended and collect your pins. The conference organizers are not responsible for posters not collected by the end of the conference. During the poster session on Wednesday, March 20, 6:30 pm – 7:30 pm, you are kindly requested to stand next to your poster and be available for questions.

# Young Statisticians

## **Presentations**

*Time:* Tuesday, March 19, 5:00 pm – 6:20 pm

*Location:* A 140

The Young Statisticians Session can be seen as a prestigious rehearsal. The chosen Young Statisticians can present their research in German or English in a friendly atmosphere with the opportunity to get feedback on their presentation (performance, content, layout, etc.). The chosen Young Statisticians receive a certificate. The presentation might preferably cover the topic of the bachelor's or master's thesis. It can also include work in progress if no final research results are yet obtained.

## **Panel Discussion: What to do after graduating (Ba/Ma/PhD)? Your career options in Biostatistics**

*Time:* Tuesday, March 19, 6:30 pm – 7:30 pm

*Location:* A 140

Academia, industry or public authorities? What kind of career options do biostatisticians have and what are the respective advantages and disadvantages? Which steps might be helpful to get there? How to combine job and family and handle dual-career problems? Are there insiders' tips? These are only some of the questions we would like to discuss with seven invited speakers who are hand-picked to represent a broad spectrum of career paths in biostatistics. We invite all early-career statisticians (Bachelor/Master/PhD students and Postdocs), but also more experienced statisticians to join the discussion and ask questions. The panel discussion is open to everyone who is interested (you do not have to be an attendee of the DAGStat meeting). It is organized by the Young Statisticians working group of the IBS-DR (AG Nachwuchs).

The participating panelists are

Name	Institution
Dr. Ronja Foraita	Leibniz Institute for Prevention Research and Epidemiology - BIPS, Bremen, DE
Jun.-Prof. Dr. Andreas Groll	TU Dortmund, DE
PD Dr. Benjamin Hofner	Paul-Ehrlich-Institut, the German Federal Institute for Vaccines and Biomedicines, Langen, DE
Prof. Dr. Antje Jahn	Darmstadt University of Applied Sciences, DE
Dr. Tina Lang	Bayer AG, Wuppertal, DE
Rainer Probst	AMS Advanced Medical Services GmbH, Mannheim, DE
Prof. Dr. Antonia Zapf	University Medical Center Hamburg-Eppendorf, DE

The panel discussion will be led by

Name	Institution
Dr. Anke Hüls	Emory University, Atlanta, US
Eva-Maria Hüßler	Heinrich Heine University, Düsseldorf, DE

### Junior Meets Senior

*Time:* Wednesday, March 20, 7:30 pm

*Location:* StuCafé, Adalbertstraße 5, 80799 München

Come together with established colleagues to have dinner and fun. The event "Junior meets Senior" allows doctoral students and young statisticians to meet, chat and interact with the invited speakers and senior colleagues of the conference. Dinner will be served and a quiz game on statistics will contribute to the entertainment. Who is the real expert on anecdotes and funny things in and around statistics? Find out and have an enjoyable evening.

Note that for this event prior registration is required.

# Statistics for the Public

## Data Literacy: Schlüsselkompetenz des 21. Jahrhunderts

*Öffentlicher Vortrag*

*Time:* Tuesday, March 19, 7:30 pm – 9:00 pm

*Location:* A 240

Vor fast genau einem Jahrzehnt prognostizierte Hal Varian, der Chefökonom von Google, in einem Artikel der New York Times: “Ich bleibe dabei zu sagen, dass die sexy Jobs in den nächsten zehn Jahren Statistiker sein werden.” Wenige Zeilen später ergänzt Erik Brynjolfsson, Ökonom und Direktor des Massachusetts Institute of Technology Center for Digital Business: “Wir geraten rapide in eine Welt, in der alles überwacht und gemessen werden kann, aber das große Problem wird die Fähigkeit der Menschen sein, diese Daten zu nutzen, zu analysieren und ihnen Sinn zu verleihen.” Aber wie kommt man von Daten zum sinnvollen Handeln? Fest steht: Daten sind heute ubiquitär, Digitalisierung führt zwangsläufig zu einer Datafizierung, weil die analoge Welt in eine digitale abgebildet wird. In nahezu allen Disziplinen werden heute Daten in großen Mengen erhoben oder entstehen als Nebenprodukt. Beispiele sind etwa Sensordaten in der Produktion, digitale Versichertendaten, Daten von Fitness-Trackern, Verkehrsflussdaten, Kundendaten und viele andere. Diese Daten werden zunehmend nicht mehr nur zu ihrem ursprünglichen Erhebungszweck genutzt, sondern sollen als Grundlage zur Entwicklung innovativer Geschäftsmodelle dienen. Darüber hinaus durchdringen Daten und deren Derivate wie Statistiken oder Grafiken infolge der Entwicklung eines (mehr oder weniger professionell umgesetzten) Datenjournalismus sämtliche traditionellen und neuen Medien. Studien können nicht mehr nur von Hochschulen, etablierten Forschungsinstituten und Beratungsfirmen erstellt werden. Vielmehr ermöglicht es die Demokratisierung des Datenzugangs (etwa durch Open Data) und der Datenverarbeitung (etwa durch intuitiv nutzbare Werkzeuge wie Googles Produkt “Data Play”) auch Laien, (Trug-) Schlüsse aus Daten zu ziehen, diese dank digitaler Plattformen einem breiten Publikum zu präsentieren und damit einen Beitrag zur Wissens- oder auch nur zur Meinungsbildung zu leisten. Doch weder Industrien noch Städte, geschweige denn wir Menschen werden plötzlich “smart”, nur weil riesige Datenmengen zur Verfügung stehen. Vielmehr scheint in Abwandlung von Peter Druckers berühmtem Ausspruch zu gelten: “Culture eats data for breakfast.” Der Grund ist: Wir verwenden zu viel Zeit darauf, noch leistungsfähigere Computer, noch komplexere Algorithmen auf noch mehr Daten loszulassen, und zu wenig Zeit

darauf, unsere Fähigkeit zum vernünftigen Umgang mit Risiko und Unsicherheit zu verbessern. Dafür benötigt es Statistical Literacy oder - umfassender - Data Literacy: die Fähigkeit, planvoll mit Daten umzugehen und sie im jeweiligen Kontext bewusst einsetzen und hinterfragen zu können. Worum es sich bei Data Literacy als “Schlüsselkompetenz des 21. Jahrhunderts” genau handelt, ist Gegenstand aktueller Forschung. Im Auftrag des Hochschulforums Digitalisierung (HFD), einer gemeinsamen Initiative des Stifterverbandes für die Deutsche Wissenschaft mit dem CHE (Centrum für Hochschulentwicklung) und der Hochschulrektorenkonferenz, haben wir den Begriff geschärft und erstmals einen umfassenden Data Literacy Kompetenzrahmen entwickelt. Dabei spielt insbesondere die Dimension der Datenethik, der Motivation und Werthaltung eine zentrale Rolle.

*Sprecherin:* Katharina Schüller ist Gründerin und Geschäftsführerin der Unternehmensberatung STAT-UP. Sie besitzt 15 Jahre Erfahrung im Statistical Consulting und war über 10 Jahre lang Dozentin an mehreren Hochschulen (u.a. TU München, International School of Management, Europa-Universität Viadrina). Als Expertin für Digitalisierung, Daten und Künstliche Intelligenz ist sie u.a. Beiratsmitglied der Deutschen Bank und Mitglied des Wirtschaftsbeirats der LH München. Sie besuchte die Bayerische EliteAkademie, war Stipendiatin der Lindau Nobel Laureate Meetings und wurde ausgezeichnet als “Statistician of the Week” durch die American Statistical Association. Sie leitet die Sektion “Statistical Literacy” der Deutschen Statistischen Gesellschaft und ist Autorin von ca. 30 Fachpublikationen.



# Education for Statistics in Practice

## Assessing direct and indirect effects - from structural equation models to causal mediation analysis

*Speakers:* Vanessa Didelez and Johan Steen

*Time:* Wednesday, March 20, 1:30 pm – 4:40 pm

*Location:* A 021

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.

The series was initiated in 2010 by Willi Sauerbrei (Freiburg). It is currently organized by Willi Sauerbrei, Christoph Muysers (Berlin) and Stephanie Roll (Berlin).

*About the presenters:* Vanessa Didelez is Professor of Statistics with focus on Causal Inference at the University of Bremen and the Leibniz Institute for Prevention Research and Epidemiology - BIPS. Her research interests include graphical models / causal diagrams, methods for time-varying confounding and general time-to-event data, in addition to causal mediation analysis.

Johan Steen is a postdoctoral researcher / statistician at the Intensive Care department of the Ghent University Hospital. He completed his PhD on causal mediation analysis at Ghent University in 2016 and is author of the medflex R package for flexible mediation analysis. His current research focuses on drawing and improving causal inferences from routinely collected hospital data to better inform clinical decision making.

*Abstract:* This short course will cover concepts and inference for direct and indirect effects, as relevant in situations where we are interested in whether and how much the effect of an exposure/treatment is mediated via other factors to affect a final outcome. This is often relevant for gaining an understanding of the underlying causal mechanisms and hence planning of potential future interventions. For instance, we may want to know whether changes in children's well-being affect cardio-metabolic markers via changes in lifestyle. Traditionally this has been modeled with linear structural equation models (SEMs) but the limitations of this methodology have led to alternative approaches and generalisations known as causal mediation analysis. The latter is based on potential outcomes and causal graphs. In this course we will show how (in)direct effects can be defined non-parametrically, i.e. without presuming any particular parametric model. Recent approaches to causal mediation modeling and inference will then be addressed, such as the mediational g-formula or natural effect models, as well as their practical application with R packages such as medflex. Participants are expected to have a fair knowledge of regression analysis and generalised linear models.

# Panel Discussion

## Data Science - Hope or Hype

*Time:* Thursday, March 21, 5:45 pm – 6:45 pm

*Location:* A 240

The participating panelists are

Name	Institution
Prof. Frauke Kreuter	University of Mannheim, DE and University of Maryland, US
Prof. Barbara Hammer	Bielefeld University, DE
Prof. Markus Zwick	Destatis, Statistisches Bundesamt, Wiesbaden, DE
Prof. Gerd Antes	Former director of Cochrane Germany, DE
Sebastian Litta	QuantCo, DE

The panel discussion will be led by

Name	Institution
Prof. Adalbert Wilhelm	GfKI, Jacobs University Bremen, DE
Prof. Göran Kauermann	Ludwig-Maximilians-Universität München, DE

**Note, the discussion will be in German.**

**Die Diskussion wird in deutscher Sprache geführt.**

# Statistics Bazaar

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.

**Fabrizio Durante (Salento University, IT)**

*Title:* Modeling dependence beyond correlation with copulas

*Time:* Tuesday, March 19, 12:30 pm – 1:15 pm

*Location:* A 125

**Martin Treiber (TU Dresden, DE)**

*Title:* How to beat the traffic jam - modelling drivers and exploring traffic flow with statistical tools

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 125

**Arne Bathke (Salzburg University, AT)**

*Title:* Inference for data with multiple endpoints: general strategies and recent developments

*Time:* Thursday, March 21, 12:30 pm – 1:15 pm

*Location:* A 125

**Sonja Greven (LMU München/HU Berlin, DE)**

*Title:* Introduction to functional data analysis and functional regression

*Time:* Friday, March 22, 8:10 am – 8:55 am

*Location:* A 125

# Schedule

Date: Tuesday, March 19					
9:00 am – 10:40 am	<p><b>Preclinical and Pharmaceutical Statistics I (Clinical Drug Development)</b> Location: A 021 Chairs: Antonia Zapf, Vivian Lanitis</p> <p><b>Advanced Regression Modeling I (Model Selection and Model Choice in Flexible Regression Models)</b> Location: D 209 Chair: Andreas Groll</p>	<p><b>Small Area Analysis and Spatial Statistics I</b> Location: A 125 Chair: Ralf Münnich</p> <p><b>Design of Experiments and Clinical Trials I (Optimal Design I)</b> Location: E 004 Chair: Norbert Gaffke</p>	<p><b>Statistical Literacy and Statistical Education I</b> Location: A 140 Chair: Katharina Schüller</p>	<p><b>Empirical Economics and Applied Econometrics I</b> Location: A 214 Chair: Robert Jung</p>	<p><b>Computational Statistics and Statistical Software I (Temporal Data)</b> Location: A 240 Chair: Roland Fried</p>
10:40 am – 11:10 am	Coffee break				
11:10 am – 12:20 pm	<p><b>Plenary Session</b> Location: Audimax</p>				
12:20 am – 1:30 pm	Lunch break				
12:30 am – 1:15 pm	<p><b>Editorial Board Meeting of the Biometrical Journal</b> Location: A 119</p> <p><b>AG Leitersitzung</b> Location: A 021</p>	<p><b>Statistics Bazaar</b> Location: A 125</p>			

1:30 pm - 2:50 pm	<p><b>Latent Variable Modelling I</b> Location: A 021 Chair: Daniel Seddig</p> <p><b>Mathematical Statistics I</b> Location: A 119 Chair: Alexander Meister</p> <p><b>Small Area Analysis and Spatial Statistics II</b> Location: A 125 Chair: Timo Schmid</p> <p><b>Statistical Literacy and Statistical Education II</b> A 140 Chair: Rolf Biehler</p> <p><b>Preclinical and Pharmaceutical Statistics II (Estimands)</b> Location: A 213 Chairs: Vivian Lanius, Antonia Zapf</p>	
	<p><b>Empirical Economics and Applied Econometrics II</b> Location: A 214 Chair: Ralf Brüggemann</p> <p><b>Causal Inference I (Modelling Causal Structures)</b> Location: A 240 Chairs: Heinz Leitgöb, Martin Elf</p> <p><b>Advanced Regression Modeling II (Nonparametric Regression Beyond the Mean)</b> Location: D 209 Chair: Nikolaus Umlauf</p> <p><b>Design of Experiments and Clinical Trials II (Adaptive Designs I)</b> Location: E 004 Chair: Gernot Wassmer</p>	
2:50 pm - 3:20 pm	Coffee break	
3:20 pm - 4:40 pm	<p><b>Latent Variable Modelling II</b> Location: A 021 Chair: Timo von Oertzen</p> <p><b>Mathematical Statistics II</b> Location: A 119 Chair: Hajo Holzmann</p> <p><b>Small Area Analysis and Spatial Statistics III</b> Location: A 125 Chair: Hanna Brenzel</p> <p><b>Statistical Literacy and Statistical Education III</b> Location: A 140 Chair: Joachim Engel</p> <p><b>Survival and Event History Analysis I (Non-standard Sampling)</b> Location: A 213 Chair: Tobias Bluhmki</p>	
	<p><b>Computational Statistics and Software II (Omics)</b> Location: A 240 Chair: Jörg Rahmenführer</p> <p><b>Statistics in Agriculture and Ecology I</b> Location: D 209 Chair: Roland Langrock</p> <p><b>Design of Experiments and Clinical Trials III (Adaptive Designs II)</b> Location: E 004 Chair: Werner Brannath</p>	
	<p><b>Time Series Analysis I (Time Series Econometrics)</b> Location: A 214 Chair: Paulo M. Rodrigues</p>	

Coffee break					
4:40 pm – 5:00 pm					
5:00 pm – 6:20 pm	<p><b>Latent Variable Modelling III</b> Location: A 021 Chair: Augustin Kelava</p> <p><b>Time Series Analysis II</b> Location: A 214 Chair: Alexander Mayer</p>	<p><b>Mathematical Statistics III</b> Location: A 119 Chair: Alexander Meister</p> <p><b>Robust and Nonparametric Statistics &amp; Computational Statistics and Statistical Software</b> Location: A 240 Chair: Claudia Becker</p>	<p><b>Official Statistics and Survey Statistics I</b> Location: A 125 Chair: Markus Zwick</p> <p><b>Statistics in Agriculture and Ecology II</b> Location: D 209 Chair: Hans-Peter Piepho</p>	<p><b>Young Statisticians</b> Location: A 140 Chairs: Tobias Bluhmki, Julia Krzykalla</p> <p><b>Data Fusion and Meta-Analysis I</b> Location: E 004 Chairs: Tim Friede, Masayuki Henmi</p>	<p><b>Preclinical and Pharmaceutical Statistics III (Preclinical studies)</b> Location: A 213 Chair: Tina Lang</p>
6:30 pm – 7:30 pm	<b>Young Statisticians Panel Discussion</b> Location: A 140				
7:30 pm – 9:00 pm	<b>Statistik in der Öffentlichkeit</b> Location: A 240				

## Date: Wednesday, March 20

9:00 am - 10:40 am	<p><b>Statistics in Behavioral and Educational Sciences I (Educational Sciences)</b> Location: A 021 Chair: Timo Gnambis</p> <p><b>Time Series Analysis III (Change Points)</b> Location: A 214 Chair: Annika Betken</p>	<p><b>Data Fusion and Meta-Analysis II</b> Location: A 119 Chair: Dankmar Boehning</p> <p><b>Computational Statistics and Statistical Software III (Open science and reproducibility)</b> Location: A 240 Chair: Gero Szepannek</p>	<p><b>Official Statistics and Survey Statistics II</b> Location: A 125 Chair: Andreas Quatember</p> <p><b>Verleihung der IBS-DR Nachwuchspreise</b> Location: D 209</p>	<p><b>Advanced Regression Modeling III (Distributional Regression/GAMLSS)</b> Location: A 140 Chair: Helga Wagner</p> <p><b>Design of Experiments and Clinical Trials IV (Adaptive Designs III)</b> Location: E 004 Chair: Geraldine Rauch</p>	<p><b>Measurement and Measurement Error I (Measurement Error)</b> Location: A 213 Chair: Helmut Kuechenhoff</p>
10:40 am - 11:10 am	<b>Coffee break</b>				
11:10 am - 12:20 pm	<p><b>Plenary Session</b> Location: Audimax</p>				
12:20 am - 1:30 pm	<b>Lunch break</b>				



12:35 pm - 1:20 pm	<p><b>AG Sitzung Bayes Methodik</b> Location: A 021</p> <p><b>AG Nicht-parametrische Methoden</b> Location: A 214</p>	<p><b>AG Land-wirtschaftliches Versuchswesen</b> Location: A 119</p> <p><b>AG Populations-genetik</b> Location: D 209</p>	<p><b>Statistics Bazaar</b> Location: A 125</p> <p><b>AG Statistische Methoden in der Epidemiologie und statistische Methoden in der Medizin</b> Location: E 004</p>	<p><b>AG Didaktik</b> Location: A 140</p> <p><b>AG Nachwuchs</b> Location: A 213</p>
1:30 pm - 2:50 pm	<p><b>Statistics in Practice</b> Location: A 021</p>	<p><b>Data Fusion and Meta-Analysis III</b> Location: A 119 Chair: Christian Röver</p>	<p><b>Official Statistics and Survey Statistics III</b> Location: A 125 Chair: Florian Keusch</p> <p><b>Time Series Analysis IV (Discrete and Functional Time Series)</b> Location: A 140 Chair: Christian Weiß</p>	<p><b>Measurement and Measurement Error II (Measurement Error and missing data)</b> Location: A 213 Chair: Moritz Heene</p>
2:50 pm - 3:20 pm	<p><b>Robust and Nonparametric Statistics I</b> Location: A 214 Chair: Natalie Neumeyer</p>	<p><b>Statistics in Science, Technology and Industry I</b> Location: A 240 Chair: Ansgar Steland</p>	<p><b>Survival and Event History Analysis II (Complex Modeling)</b> Location: B 106 Chair: Arthur Allignol</p>	<p><b>Statistics in Finance I</b> Location: E 004 Chair: Markus Bibinger</p>
<b>Coffee break</b>				
3:20 pm - 4:40 pm	<p><b>Statistics in Practice</b> Location: A 021</p>	<p><b>Clustering I (Copula and Genetics)</b> Location: A 119 Chair: Ingo Steinwart</p>	<p><b>Official Statistics and Survey Statistics IV</b> Location: A 125 Chair: Florian Keusch</p>	<p><b>Statistics in Behavioral and Educational Sciences II (Behavioural Sciences)</b> Location: A 213 Chair: Steffi Pohl</p> <p><b>Robust and Nonparametric Statistics II</b> Location: A 214 Chair: Natalie Neumeyer</p>

3:20 pm - 4:40 pm	<p><b>Statistics in Science, Technology and Industry II</b> Location: A 240 Chair: Axel Gandy</p>	<p><b>Survival and Event History Analysis III (High-Dimensional Analysis)</b> Location: B 106 Chair: Moritz Maximilian Berger</p>	<p><b>Statistics of High Dimensional Data II</b> Location: D 209 Chair: Markus Pauly</p>	<p><b>Statistics in Finance II</b> Location: E 004 Chair: Yarema Okhrin</p>
Coffee break				
5:00 pm - 6:20 pm	<p><b>Design of Experiments and Clinical Trials V (Optimal Design II)</b> Location: A 125 Chair: Maryna Prus</p>	<p><b>Computational Statistics and Statistical Software IV (Software)</b> Location: A 214 Chair: Gero Szepannek</p>	<p><b>Statistics in Science, Technology and Industry III</b> Location: A 240 Chair: Sonja Kuhnt</p>	<p><b>Survival and Event History Analysis IV (Competing Risks and Multistate Models I)</b> Location: B 106 Chairs: Jan Beyersmann, Matthias Schmid</p>
5:00 pm - 7:00 pm	<p><b>Statistics in Finance III</b> Location: E 004 Chair: Markus Bibinger</p>	<p><b>IBS-DR Mitgliederversammlung</b> Location: A 140</p>		
6:30 pm - 7:30 pm	<p><b>Poster</b> Location: E 106 (Senatssaal)</p>			

<b>Date: Thursday, March 21</b>					
<b>9:00 am</b> - <b>10:40 am</b>	<b>Marketing and E-Commerce</b> Location: A 119 Chair: Winfried Steiner	<b>Small Sample Statistics</b> Location: A 125 Chairs: Jörg Rahnenführer, Robert Kwiecien	<b>Machine Learning I</b> Location: A 140 Chairs: Tim Beißbarth, Hans Kestler	<b>Clustering II (Mixture Models)</b> Location: A 213 Chair: Christian Hennig	<b>Design of Experiments and Clinical Trials VI (Optimal Design III)</b> Location: A 214 Chair: Heiko Großmann
	<b>Epidemiology I (Causal inference methods)</b> Location: A 240 Chair: Vanessa Didelez	<b>Data Science</b> Location: D 209 Chair: Thomas Seidl	<b>Classification and Pattern Recognition I</b> Location: E 004 Chair: Hans Kestler		
<b>10:40 am</b> - <b>11:10 am</b>	<b>Coffee break</b>				
<b>11:10 am</b> - <b>11:25 am</b>	<b>DAGStat Medal Award</b> Location: Audimax				
<b>11:25 am</b> - <b>12:30 pm</b>	<b>Plenary Session</b> Location: Audimax				
<b>12:30 pm</b> - <b>1:30 pm</b>	<b>Lunch break</b>				
<b>12:30 pm</b> - <b>1:15 pm</b>	<b>Statistics Bazaar</b> Location: A 125				

1:30 pm - 2:50 pm	<p><b>Survival and Event History Analysis V (Competing Risks and Multistate Models II)</b> Location: A 021 Chair: Jan Beyersmann</p> <p><b>Design of Experiments and Clinical Trials VII (Optimal Design IV)</b> Location: A 214 Chair: Werner G. Müller</p>	<p><b>Network Analysis I</b> Location: A 119 Chair: Goeran Kauermann</p> <p><b>Time Series Analysis V</b> Location: A 240 Chair: Marc-Oliver Pohle</p>	<p><b>Visualisation and Exploratory Data Analysis</b> Location: A 125 Chair: Heike Hofmann</p> <p><b>Robust and Nonparametric Statistics III</b> Location: D 209 Chair: Peter Ruckdeschel</p>	<p><b>Machine Learning II</b> Location: A 140 Chairs: Tim Beißbarth, Hans Kestler</p> <p><b>Epidemiology II (Environmental risks)</b> Location: E 004 Chair: Dirk Enders</p>	<p><b>Clustering III (General clustering and classification)</b> Location: A 213 Chair: Jean-Patrick Baudry</p>
<b>Coffee break</b>					
2:50 pm - 3:20 pm					
3:20 pm - 4:40 pm	<p><b>Survival and Event History Analysis VI (Prediction)</b> Location: A 021 Chair: Matthias Schmid</p> <p><b>Design of Experiments and Clinical Trials VIII (Clinical Trials I)</b> Location: A 214 Chair: Tim Friede</p>	<p><b>Network Analysis II</b> Location: A 119 Chair: Alexander Günther Kreiß</p> <p><b>Computational Statistics and Statistical Software V (invited)</b> Location: A 240 Chair: Roland Fried</p>	<p><b>Visualisation and Exploratory Data Analysis</b> Location: A 125 Chair: Hans Kestler</p> <p><b>Robust and Nonparametric Statistics IV</b> Location: D 209 Chair: Peter Ruckdeschel</p>	<p><b>Machine Learning III</b> Location: A 140 Chairs: Tim Beißbarth, Hans Kestler</p> <p><b>Epidemiology III (Chronic and infectious disease methodology)</b> Location: E 004 Chair: André Karch</p>	<p><b>Statistics in Science, Technology and Industry IV</b> Location: A 213 Chair: Jürgen Pilz</p>

Coffee break					
4:40 pm – 5:00 pm	<b>Advanced Regression Modeling V</b> Location: A 021 Chair: Elmar Spiegel	<b>Data Fusion and Meta-Analysis IV</b> Location: A 119 Chairs: Georgia Salanti, Sibylle Sturtz	<b>Classification and Pattern Recognition II</b> Location: A 125 Chair: Andreas Geyer-Schulz	<b>Machine Learning IV</b> Location: A 140 Chairs: Tim Beißbarth, Hans Kestler	<b>Statistics in Science, Technology and Industry V</b> Location: A 213 Chair: Sven Knoth
5:00 pm – 5:40 pm	<b>Design of Experiments and Clinical Trials IX (Clinical Trials II)</b> Location: A 214 Chair: Ekkehard Glimm	<b>Causal Inference II (Aspects of Propensity Score Methods)</b> Location: B 106 Chairs: Heinz Leitgöb, Martin Elff	<b>Statistics of High Dimensional Data III</b> Location: D 209 Chair: Taras Bodnar	<b>Epidemiology IV</b> Location: E 004 Chair: Ralph Brinks	
5:45 pm – 6:45 pm	<b>Panel Discussion</b> Location: A 240				

## Date: Friday, March 22

<b>Statistics Bazaar</b> Location: A 125					
8:10 am - 8:55 am					
9:00 am - 10:40 am	<b>Advanced Regression Modeling VI (Modeling Multivariate Dependence)</b> Location: A 021 Chair: Thomas Kneib	<b>Causal Inference III (Neyman-Rubin Model and Observational Studies)</b> Location: A 125 Chairs: Heinz Leitgöb, Martin Elff	<b>Machine Learning V</b> Location: A 140 Chairs: Tim Beißbarth, Hans Kestler	<b>Network Analysis III</b> Location: A 213 Chair: Pavel N. Krivitsky	<b>Design of Experiments and Clinical Trials X (Clinical Trials III)</b> Location: A 214 Chair: Joachim Gerß
	<b>Time Series Analysis VI (Time Series Resampling)</b> Location: A 240 Chair: Matei Demetrescu	<b>Statistics of High Dimensional Data IV</b> Location: D 209 Chair: Erik Thorsén	<b>Robust and Nonparametric Statistics V</b> Location: E 004 Chair: Peter Ruckdeschel		
10:40 am - 11:10 am	<b>Coffee break</b>				
11:10 am - 12:20 pm	<b>Plenary Session</b> Location: Audimax				
12:20 pm - 1:30 pm	<b>Lunch break</b>				

# Session Overview

Tuesday, March 19, 9:00 am – 10:40 am

## Advanced Regression Modeling I (Model Selection and Model Choice in Flexible Regression Models)

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* D 209

*Chair:* Andreas Groll

- |                     |   |
|---------------------|---|
| 09:00 am – 09:20 am | A ridge to homogeneity<br><i>Stanislav Anatolyev</i>  |
| 09:20 am – 09:40 am | Scalable Bayesian regression in high dimensions with multiple data sources<br><i>Konstantinos Perrakis</i>  |
| 09:40 am – 10:00 am | Optimized variable selection via repeated data splitting<br><i>Marinela Capanu</i>  |
| 10:00 am – 10:20 am | The Power of Unbiased Recursive Partitioning: A Unifying View of CTree, MOB, and GUIDE<br><i>Lisa Schlosser</i>                                   |
| 10:20 am – 10:40 am | Should positivity imply a multiplicative model? Introducing the Softplus function as an alternative to the common log link<br><i>Paul Wiemann</i> |

## Computational Statistics and Statistical Software I (Temporal Data)

*Date:* Tuesday, March 19, 09:00 am – 10:20 am      *Location:* A 240

*Chair:* Roland Fried

- |                     |   |
|---------------------|---|
| 09:00 am – 09:20 am | Estimating multiple changes in the mean using moving sum statistics<br><i>Claudia Kirch</i> |
| 09:20 am – 09:40 am | How to model extreme events that occur in clusters?<br><i>Katharina Hees</i>                |

- 09:40 am – 10:00 am Hierarchical continuous time state space modelling with ctsem  
*Charles Driver*
- 10:00 am – 10:20 am Confidence intervals for average sequential attributable fraction – A simulation study  
*Carolin Malsch*

### Design of Experiments and Clinical Trials I (Optimal Design I)

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* E 004

*Chair:* Norbert Gaffke

- 09:00 am – 09:20 am Design of experiments for fitting flexible curves  
*Luzia Trinca*
- 09:20 am – 09:40 am A practical approach to designing partial-profile choice experiments for estimating main effects and interactions  
*Heiko Großmann*
- 09:40 am – 10:00 am Designs for Second-Order Interactions in Paired Comparison Experiments of Full and Partial Profiles  
*Eric Nyarko*
- 10:00 am – 10:20 am Optimal item calibration designs for computerized achievement tests  
*Frank Miller*
- 10:20 am – 10:40 am On optimal designs for multi-factor two-level models on a design region restricted by the number of active factors  
*Fritjof Freise*



## Empirical Economics and Applied Econometrics I

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* A 214

*Chair:* Robert Jung

- |                     |   |
|---------------------|---|
| 09:00 am – 09:20 am | Generic Conditions for Forecast Dominance<br><i>Fabian Krüger</i>   |
| 09:20 am – 09:40 am | Maximum likelihood analysis of high-dimensional reduced-rank regressions<br><i>M. Massmann</i>                              |
| 09:40 am – 10:00 am | Selecting the Number of Factors in Approximate Factor Models using Group Variable regularization<br><i>Maurizio Daniele</i> |
| 10:00 am – 10:20 am | Detecting periods of excessive credit in the EU - A structural counterfactual approach<br><i>Magnus Sass</i>                |
| 10:20 am – 10:40 am | Identification of structural shocks via common fractional components<br><i>Rolf Tschernig</i>                               |

## Preclinical and Pharmaceutical Statistics I (Clinical Drug Development)

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* A 021

*Chairs:* Antonia Zapf and Vivian Lanius

- |                     |   |
|---------------------|---|
| 09:00 am – 09:40 am | Statistical issues in drug development and the role of statisticians in regulatory agencies<br><i>Benjamin Hofner</i>                   |
| 09:40 am – 10:00 am | Adjusting for selection bias in assessing treatment effect estimates from multiple subgroups<br><i>Ekkehard Glimm</i>                   |
| 10:00 am – 10:20 am | An efficient phase II/III development program utilizing information on short-term response and long-term survival<br><i>Heiko Götte</i> |
| 10:20 am – 10:40 am | Quantification of prior impact in terms of prior effective historical and current sample size<br><i>Manuel Wiesenfarth</i>              |

## Small Area Analysis and Spatial Statistics I

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* A 125

*Chair:* Ralf Münnich

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|---------------------|---|
| 09:00 am – 09:40 am | Estimating socio-demographic indicators using mobile phone data with applications in Germany and Senegal<br><i>Timo Schmid</i>          |
| 09:40 am – 10:00 am | Estimating proportions of multidimensional poverty in small areas<br><i>Sören Pannier</i>   |
| 10:00 am – 10:20 am | Small area estimation in forest inventories: Overview of methods and challenges in practical applications<br><i>Anne-Sophie Stelzer</i> |
| 10:20 am – 10:40 am | Generative Adversarial Imputation Nets for Small Area Estimation<br><i>Marcel Neunhoeffler</i>  |

## Statistical Literacy and Statistical Education I

*Date:* Tuesday, March 19, 09:00 am – 10:40 am      *Location:* A 140

*Chair:* Katharina Schüller

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|---------------------|--|
| 09:00 am – 09:20 am | Data science education at school level – Conceptions, examples and experience from a pilot project<br><i>Rolf Biehler</i>        |
| 09:20 am – 09:40 am | Causal Modelling in Introductory Statistics?<br><i>Matthias Gehrke</i>   |
| 09:40 am – 10:00 am | Flipped Classroom Implementation in Large Statistics Lectures<br><i>Constantin Weiser</i>  |
| 10:00 am – 10:20 am | shinyExample - ein R Paket zur Unterstützung der Entwicklung einfacher Shiny-Apps<br><i>Sigbert Klinke</i>                       |
| 10:20 am – 10:40 am | Die Prognose des Studienerfolgs auf Basis individueller Studienverläufe im Fach Wirtschaftswissenschaft<br><i>Ulrich Rendtel</i> |

## Tuesday, March 19, 1:30 pm – 2:50 pm

### Advanced Regression Modeling II (Nonparametric Regression Beyond the Mean)

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* D 209

*Chair:* Nikolaus Umlauf

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|---------------------|--|
| 01:30 pm – 01:50 pm | Goodbye moments, hello expectiles<br><i>Paul Eilers</i>  |
| 01:50 pm – 02:10 pm | Generalized Expectile Regression with Flexible Response Function for patient reported outcomes<br><i>Elmar Spiegel</i> |
| 02:10 pm – 02:30 pm | Bayesian Conditional Transformation Models<br><i>Manuel Carlan</i>   |
| 02:30 pm – 02:50 pm | Flexible regression for probability densities in Bayes spaces<br><i>Almond Stöcker</i>                                 |

### Causal Inference I (Modelling Causal Structures)

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 240

*Chairs:* Heinz Leitgöb and Martin Elff

- |                     |  |
|---------------------|--|
| 01:30 pm – 02:10 pm | How can graphical Markov models aid causal inference?<br><i>Nanny Wermuth</i>  |
| 02:10 pm – 02:30 pm | How to Deal With Reverse Causality Using Panel Data? Recommendations for Researchers Based on a Simulation Study<br><i>Tobias Wolbring</i> |
| 02:30 pm – 02:50 pm | Measurement, Causal Models and Treatment Effects<br><i>Marco Steenbergen</i>   |

## Design of Experiments and Clinical Trials II (Adaptive Designs I)

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* E 004

*Chair:* Gernot Wassmer

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | Optimal adaptive two-stage designs for normally distributed outcomes<br><i>Maximilian Pilz</i>                       |
| 01:50 pm – 02:10 pm | Incorporating historical two-arm data in clinical trials with binary outcome<br><i>Manuel Feißt</i>                  |
| 02:10 pm – 02:30 pm | A new rule for sample size recalculation based on resampling in an adaptive design setting<br><i>Geraldine Rauch</i> |
| 02:30 pm – 02:50 pm | Reestimation of the prevalence in a confirmatory diagnostic accuracy study<br><i>Maria Stark</i>                     |

## Empirical Economics and Applied Econometrics II

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 214

*Chair:* Ralf Brüggemann

- |                     |   |
|---------------------|---|
| 01:30 pm – 02:10 pm | Structural Interpretation of Vector Autoregressions with Incomplete Identification: Revisiting the Role of Oil Supply and Demand Shocks<br><i>Christiane Baumeister</i> |
| 02:10 pm – 02:30 pm | Identification of Structural Vector Autoregressions by Stochastic Volatility<br><i>Robin Braun</i>  |
| 02:30 pm – 02:50 pm | Identification of independent structural shocks in the presence of multiple Gaussian components<br><i>Simone Maxand</i>   |

## Latent Variable Modelling I

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 021

*Chair:* Daniel Seddig

- 01:30 pm – 02:10 pm      An Approach to Addressing Multiple Imputation Model Uncertainty Using Bayesian Model Averaging  
*David Kaplan*
- 02:10 pm – 02:30 pm      Estimation of a Nonparametric Multidimensional Item Response Model Using Dirichlet Process Mixtures  
*Felix Naumann*
- 02:30 pm – 02:50 pm      Dirichlet Clustering in Onyx  
*Timo von Oertzen*

## Mathematical Statistics I

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 119

*Chair:* Alexander Meister

- 01:30 pm – 02:10 pm      Log-concave density estimation  
*Richard Samworth*
- 02:10 pm – 02:30 pm      Spectral thresholding for the estimation of Markov chain transition operators  
*Matthias Loeffler*
- 02:30 pm – 02:50 pm      Adaptive confidence sets for kink-location and kink-size in nonparametric regression  
*Viktor Bengs*

## Preclinical and Pharmaceutical Statistics II (Estimands)

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 213

*Chairs:* Vivian Lanius and Antonia Zapf

- 01:30 pm – 01:50 pm      Estimand framework in Oncology drug development – impact and opportunities  
*Kaspar Rufibach*
- 01:50 pm – 02:10 pm      Estimation of Principal stratum effects, an overview and potential applications in oncology  
*Bjoern Bornkamp*

- 02:10 pm – 02:30 pm      Estimands in the presence of treatment switching  
*Viktoriya Stalbovskaya*
- 02:30 pm – 02:50 pm      Implementation of the ICH E9 addendum: A case study in  
hematology  
*Hans-Jochen Weber*

### Small Area Analysis and Spatial Statistics II

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 125  
*Chair:* Timo Schmid

- 01:30 pm – 01:50 pm      Comparing designs for prediction based on stationary vs.  
non-stationary space-time covariance functions  
*Helmut Waldl*
- 01:50 pm – 02:10 pm      Identifying spatial dependence structures with copulas and  
generalized additive models  
*Marc Hüsch*
- 02:10 pm – 02:30 pm      Spatio-Temporal Smoothing of Drinking Water Contamina-  
tion Data  
*Jonathan Rathjens*
- 02:30 pm – 02:50 pm      Multilevel Conditional Autoregressive models for longitudinal  
data nested in geographical units with dynamic characteris-  
tics  
*Dany Djeudeu*

### Statistical Literacy and Statistical Education II

*Date:* Tuesday, March 19, 1:30 pm – 2:50 pm      *Location:* A 140  
*Chair:* Rolf Biehler

- 01:30 pm – 02:10 pm      Statistical Literacy and Statistical Education  
*Laura Martignon*
- 02:10 pm – 02:30 pm      Civic Statistics: Big Ideas, Needs and Challenges. Why we  
need a new subdiscipline  
*Joachim Engel*
- 02:30 pm – 02:50 pm      A New Approach for Developing Statistical Thinking  
*Ana Kolar*

## Tuesday, March 19, 3:20 pm – 4:40 pm

### Computational Statistics and Statistical Software II (Omics)

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 240

*Chair:* Jörg Rahnenführer

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|---------------------|---|
| 03:20 pm – 03:40 pm | Comparison of different preprocessing methods for the analysis of metabolite data<br><i>Miriam Sieg</i>                                   |
| 03:40 pm – 04:00 pm | Benchmarking survival prediction methods using 18 multi-omics datasets from the „The cancer genome atlas“ (TCGA)<br><i>Philipp Probst</i> |
| 04:00 pm – 04:20 pm | Block Forests: random forests for blocks of clinical and omics covariate data<br><i>Roman Hornung</i>                                     |
| 04:20 pm – 04:40 pm | Sparse-group lasso variants for whole-genome regression models in livestock<br><i>Jan Klosa</i>   |

### Design of Experiments and Clinical Trials III (Adaptive Designs II)

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* E 004

*Chair:* Werner Brannath

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|---------------------|---|
| 03:20 pm – 03:40 pm | Blinded continuous information monitoring of recurrent events endpoints with time trends<br><i>Tim Friede</i> |
| 03:40 pm – 04:00 pm | Adaptive designs for drug combination informed by longitudinal model for the response<br><i>Tobias Mielke</i> |
| 04:00 pm – 04:20 pm | An Alternative Log-Rank Test for Adaptive Survival Trials<br><i>Laura Kerschke</i>                            |
| 04:20 pm – 04:40 pm | Combining Parallel Adaptive Seamless Phase 2/3 Trials<br><i>Cornelia Ursula Kunz</i>                          |

## Latent Variable Modelling II

*Date:* Tuesday, March 19, 3:20 pm – 4:20 pm      *Location:* A 021

*Chair:* Timo von Oertzen

- 03:20 pm – 03:40 pm      A Recent Perspective on Differential Item Functioning and its Implications in the Rasch model  
*Carsten Szardenings*
- 03:40 pm – 04:00 pm      Adaptive Bayesian SLOPE – High-dimensional Model Selection with Missing Values  
*Wei Jiang*
- 04:00 pm – 04:20 pm      Efficient estimation of abilities based on achievement tests with non-equivalent anchor test design  
*Jonas Bjermo*

## Mathematical Statistics II

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 119

*Chair:* Hajo Holzmann

- 03:20 pm – 03:40 pm      Super-Consistent Estimation of Points of Impact in Nonparametric Regression with Functional Predictors  
*Dominik Liebl*
- 03:40 pm – 04:00 pm      Simultaneous confidence bands for the covariance kernel of Banach space valued functional data  
*Melanie Birke*
- 04:00 pm – 04:20 pm      Fused Density Estimation on Infrastructure Networks  
*Robert Bassett*
- 04:20 pm – 04:40 pm      Empirical Regularized Optimal Transport: Statistical Theory and Applications  
*Marcel Klatt*



## Small Area Analysis and Spatial Statistics III

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 125

*Chair:* Hanna Brenzel

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|---------------------|---|
| 03:20 pm – 03:40 pm | Joint spatial modelling of disease outcomes of Chilean survey data<br><i>Anna Schritz</i>     |
| 03:40 pm – 04:00 pm | Local economic impact of universities<br><i>Britta Stöver</i>                                 |
| 04:00 pm – 04:20 pm | MikroSim – Sektorenübergreifendes kleinräumiges Mikrosimulationsmodell<br><i>Ralf Münnich</i> |
| 04:20 pm – 04:40 pm | Data-driven Transformations for the Estimation of Small Area Means<br><i>Nora Würz</i>        |

## Statistics in Agriculture and Ecology I

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* D 209

*Chair:* Roland Langrock

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|---------------------|--|
| 03:20 pm – 04:00 pm | Point processes — abstraction and practical relevance in ecology<br><i>Janine Baerbel Illian</i>   |
| 04:00 pm – 04:20 pm | A continuous-time multi-state capture-recapture model for the annual movement of bottlenose dolphins on the east coast of Scotland<br><i>Sina Mews</i> |
| 04:20 pm – 04:40 pm | A Coefficient of Determination ( $R^2$ ) for Generalized Linear Mixed Models<br><i>Hans-Peter Piepho</i>   |

## Survival and Event History Analysis I (Non-standard Sampling)

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 213

*Chair:* Tobias Bluhmki

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|---------------------|---|
| 03:20 pm – 03:40 pm | Semiparametric Modeling of Doubly Truncated Lifetimes in Registry Data<br><i>Achim Dörre</i>            |
| 03:40 pm – 04:00 pm | Left-censoring in survival analysis: An application to dementia incidence<br><i>Rafael Weissbach</i>    |
| 04:00 pm – 04:20 pm | Time-simultaneous inference in general nested case-control designs<br><i>Jan Feifel</i>                 |
| 04:20 pm – 04:40 pm | On modeling complex longitudinal and survival data with a terminal trend<br><i>Kwun Chuen Gary Chan</i> |

## Statistical Literacy and Statistical Education III

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 140

*Chair:* Joachim Engel

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|---------------------|---|
| 03:20 pm – 03:40 pm | Increase in the speed of medical decisions due to natural frequencies<br><i>Leah Braun</i>                          |
| 03:40 pm – 04:00 pm | The development of epiLEARNER: an innovative e-learning project by and for medical students<br><i>Ursula Berger</i> |
| 04:00 pm – 04:20 pm | Challenges in teaching Medical Data Science<br><i>Michael Gabel</i>   |
| 04:20 pm – 04:40 pm | Regression model building in medical statistics<br><i>Paul Bach</i>   |

## Time Series Analysis I (Time Series Econometrics)

*Date:* Tuesday, March 19, 3:20 pm – 4:40 pm      *Location:* A 214

*Chair:* Paulo M. Rodrigues

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|---------------------|---|
| 03:20 pm – 03:40 pm | On the Sensitivity of Granger Causality to Errors-in-Variables, Linear Transformations and Subsampling<br><i>Manfred Deistler</i>                 |
| 03:40 pm – 04:00 pm | Fractional trends in unobserved components models<br><i>Tobias Hartl</i>  |
| 04:00 pm – 04:20 pm | The Asymptotic Validity of “Standard” Fully Modified OLS Estimation and Inference in Cointegrating Polynomial Regressions<br><i>Martin Wagner</i> |
| 04:20 pm – 04:40 pm | Multivariate Testing for Fractional Integration<br><i>Paulo M. M. Rodrigues</i>   |

## Tuesday, March 19, 5:00 pm – 6:20 pm

### Young Statisticians

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 140

*Chairs:* Tobias Bluhmki and Julia Krzykalla

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|---------------------|---|
| 05:00 pm – 05:20 pm | Selection Effects in Bayesian Hierarchical Models Bachelor Thesis in Cooperation with Boehringer Ingelheim Pharma GmbH & Co. KG<br><i>Martina Schlenker</i> |
| 05:20 pm – 05:40 pm | Risks and benets of autologous stem cell transplantations in treating elderly patients with multiple myeloma: Competing risks analyses<br><i>Kaya Miah</i>  |
| 05:40 pm – 06:00 pm | Challenging the commonly used log-link in statistical models for count data with an application to infection disease data<br><i>Aisouda Hoshiyar</i>        |
| 06:00 pm – 06:20 pm | Flexible instrumental variable distributional regression<br><i>Guillermo Briseño Sanchez</i>  |

### Data Fusion and Meta-Analysis I

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* E 004

*Chairs:* Tim Friede and Masayuki Henmi

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|---------------------|--|
| 05:00 pm – 05:40 pm | Clinical Prediction Models and the role of Evidence Synthesis<br><i>Thomas P.A. Debray</i>                                 |
| 05:40 pm – 06:00 pm | Summray concordance index for meta-analysis of prognostic studies with survival outcome<br><i>Satoshi Hattori</i>          |
| 06:00 pm – 06:20 pm | A nonparametric approach for meta-analysis of diagnostic accuracy studies with multiple cut-offs<br><i>Cornelia Frömke</i> |

## Latent Variable Modelling III

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 021

*Chair:* Augustin Kelava

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|---------------------|--|
| 05:00 pm – 05:20 pm | A copula-based multivariate hidden Markov model for modelling momentum in football<br><i>Marius Ötting</i> |
| 05:20 pm – 05:40 pm | A Nonlinear Dynamic Latent Class Structural Equation Model<br><i>Augustin Kelava</i>                       |
| 05:40 pm – 06:00 pm | A new varying threshold approach to model response styles in the IRT framework<br><i>Mirka Henninger</i>   |
| 06:00 pm – 06:20 pm | Identifying inattentive responses using dynamic latent class modeling<br><i>Holger Brandt</i>              |

## Mathematical Statistics III

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 119

*Chair:* Alexander Meister

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|---------------------|---|
| 05:00 pm – 05:20 pm | The sufficiency principle: How to teach it, and what does it entail?<br><i>Lutz Mattner</i> |
| 05:20 pm – 05:40 pm | A bounded quantile-based measure of kurtosis<br><i>Paul Jacobus van Staden</i>              |
| 05:40 pm – 06:00 pm | To choose or not to choose a prior. That's the question!<br><i>Fatemeh Ghaderinezhad</i>    |
| 06:00 pm – 06:20 pm | Parameter Estimation for Lotka-Volterra Switching model<br><i>Houda Yaqine</i>              |

## Official Statistics and Survey Statistics I

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 125

*Chair:* Markus Zwick

- 05:00 pm – 05:40 pm      Using Big Data in Official Statistics  
*Piet J.H. Daas*
- 05:40 pm – 06:00 pm      Smart Business Cycle Statistics  
*Markus Zwick*
- 06:00 pm – 06:20 pm      Enriching an Ongoing Panel Survey with Mobile Phone Measures: The IAB-SMART Study  
*Florian Keusch*

## Preclinical and Pharmaceutical Statistics III (Preclinical studies)

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 213

*Chair:* Tina Lang

- 05:00 pm – 05:20 pm      A Novel Approach to Outlier Identification in Bioassays  
*Hannes Buchner*
- 05:20 pm – 05:40 pm      How to handle deviating control values in dose-response curves  
*Franziska Kappenberg*
- 05:40 pm – 06:00 pm      New Approaches for Bivariate Quantitative Dose-Response — A Screening Study from Hormone- Research and Development  
*Reinhard Meister*
- 06:00 pm – 06:20 pm      Adaptive designs in preclinical dose finding studies  
*Konrad Neumann*

## Robust and Nonparametric Statistics & Computational Statistics and Statistical Software

*Date:* Tuesday, March 19, 5:00 pm – 6:00 pm      *Location:* A 240

*Chair:* Claudia Becker

- 05:00 pm – 05:20 pm      Comparison of Dependence Coefficients in Presence of Outliers, A Simulation Study  
*Ahmed R.M. Alsayed*

- 05:20 pm – 05:40 pm      Comparison of some normality tests in the presence of outliers  
*Mustafa Çavus*
- 05:40 pm – 06:00 pm      Removing Outliers: Effects on Statistical Inference and Suggestions for Choosing Exclusion Boundaries  
*Patrick Schenk*

## Statistics in Agriculture and Ecology II

*Date:* Tuesday, March 19, 5:00 pm – 6:00 pm      *Location:* D 209

*Chair:* Hans-Peter Piepho

- 05:00 pm – 05:20 pm      Testing Multiplicative Terms in AMMI and GGE Models for Multienvironment Trials  
*Waqas Malik*
- 05:20 pm – 05:40 pm      How to detect imprinted loci using estimated parent-of-origin effects and simple gene counts only  
*Inga Blunk*
- 05:40 pm – 06:00 pm      Application of Multivariate Statistical Methods in Water Pollution Footprinting  
*Hayal Boyacioglu*

## Time Series Analysis II

*Date:* Tuesday, March 19, 5:00 pm – 6:20 pm      *Location:* A 214

*Chair:* Alexander Mayer

- 05:00 pm – 05:20 pm      Detecting multiple location shifts under long-memory stationary errors  
*Mustafa Kilinc*
- 05:20 pm – 05:40 pm      Long Memory Conditional Heteroscedasticity in Count Data  
*Manuel Stapper*
- 05:40 pm – 06:00 pm      Estimation and Inference in Adaptive Learning Models with Slowly Decreasing Gains  
*Alexander Mayer*
- 06:00 pm – 06:20 pm      Parameter estimation for time series models based on the simulated characteristic function  
*Thiago do Rego Sousa*

## Wednesday, March 20, 9:00 am – 10:40 am

### Verleihung der IBS-DR Nachwuchspreise

*Date:* Wednesday, March 20, 9:00 am – 10:10 am    *Location:* D 209

*Chair:* Andreas Faldum

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|---------------------|--|
| 09:00 am – 09:15 am | Sample Size Calculation in Time-To-Event Trials with Non-Proportional Hazards Using GESTATE<br><i>Jasmin Rühl</i>                            |
| 09:15 am – 09:30 am | Statistical Approaches to Characterize and Compare Networks of Microbiome Data<br><i>Stefanie Krügel</i>                                     |
| 09:30 am – 09:50 am | Group sequential designs with robust semiparametric recurrent event models<br><i>Tobias Mütze</i>  |
| 09:50 am – 10:10 am | A simple signaling rule for variable life-adjusted display derived from an equivalent risk-adjusted CUSUM chart<br><i>Philipp Wittenberg</i> |

### Advanced Regression Modeling III (Distributional Regression/ GAMLSS)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am    *Location:* A 140

*Chair:* Helga Wagner

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|---------------------|---|
| 09:00 am – 09:20 am | Neural Network Distributional Regression<br><i>Nikolaus Umlauf</i>                                      |
| 09:20 am – 09:40 am | Random Function Responses in Distributional Regression<br><i>Hannes Riebl</i>                           |
| 09:40 am – 10:00 am | Bayesian Effect Selection in Structured Additive Distributional Regression Models<br><i>Nadja Klein</i> |
| 10:00 am – 10:20 am | Proper imputation for GAMLSS inference<br><i>Tobias Hepp</i>  |
| 10:20 am – 10:40 am | Multivariate Functional Additive Mixed Models<br><i>Alexander Volkmann</i>                              |



## Computational Statistics and Statistical Software III (Open science and reproducibility)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* A 240

*Chair:* Gero Szepannek

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|---------------------|--|
| 09:00 am – 09:20 am | Open Science and statistics<br><i>Anne-Laure Boulesteix</i>  |
| 09:20 am – 09:40 am | Research Software Engineers<br><i>Heidi Seibold</i>  |
| 09:40 am – 10:00 am | Reproducible Methodological Research and Scientific Publishing<br><i>Fabian Scheipl</i>  |
| 10:00 am – 10:20 am | Correcting for bias in the literature: A comparison of meta-analytic methods for bias-correction<br><i>Felix D. Schönbrodt</i> |
| 10:20 am – 10:40 am | The multiplicity of possible analysis strategies and how it is handled across scientific disciplines<br><i>Sabine Hoffmann</i> |

## Design of Experiments and Clinical Trials IV (Adaptive Designs III)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* E 004

*Chair:* Geraldine Rauch

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|---------------------|---|
| 09:00 am – 09:40 am | Novel designs for trials with multiple treatments and subgroups<br><i>James Wason</i>   |
| 09:40 am – 10:00 am | Optimal designs for multi-arm phase II/III drug development programs<br><i>Stella Preussler</i>                                 |
| 10:00 am – 10:20 am | Comparison of the efficacy of Bayesian and frequentist designs for oncological phase II basket trials.<br><i>Maja Krajewska</i> |
| 10:20 am – 10:40 am | Geometric representation of master protocols<br><i>Deepak Parashar</i>  |

## Data Fusion and Meta-Analysis II

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* A 119

*Chair:* Dankmar Boehning

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|---------------------|---|
| 09:00 am – 09:20 am | Meta-analysis of full ROC curves: A parametric model based on flexible distributions of diagnostic test values<br><i>Annika Hoyer</i> |
| 09:20 am – 09:40 am | The dark side of the force: multiple testing issues in network meta-analysis and how to address them<br><i>Orestis Efthimiou</i>      |
| 09:40 am – 10:00 am | The importance of a study for treatment estimates in network meta-analysis<br><i>Gerta Rücker</i>                                     |
| 10:00 am – 10:20 am | On ranking multiple health interventions<br><i>Georgia Salanti</i>  |
| 10:20 am – 10:40 am | Using flow decomposition to estimate the contribution of studies in network meta-analysis<br><i>Theodoros Papakonstantinou</i>        |

## Measurement and Measurement Error I (Measurement Error)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* A 213

*Chair:* Helmut Kuechenhoff

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|---------------------|---|
| 09:00 am – 09:20 am | Measurement error and misclassification of variables in observational epidemiology: basic knowledge and practical guidance<br><i>Veronika Deffner</i> |
| 09:20 am – 10:00 am | Estimation methods to address correlated covariate and time-to-event error<br><i>Pamela Ann Shaw</i>  |
| 10:00 am – 10:20 am | SIMEX for Box-Cox transformed measurements<br><i>Timm Intemann</i>  |
| 10:20 am – 10:40 am | Accounting for misclassification in automated disease diagnosis based on medical image data<br><i>Felix Günther</i>                                   |

## Official Statistics and Survey Statistics II

*Date:* Wednesday, March 20, 09:20 am – 10:40 am *Location:* A 125

*Chair:* Andreas Quatember

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|---------------------|--|
| 09:20 am – 09:40 am | Sampling in Times of High Immigration: The IAB-BAMF-SOEP Survey of Refugees<br><i>Simon Kühne</i>  |
| 09:40 am – 10:00 am | European Union Minorities and Discrimination Survey (EU-MIDIS II) - Surveying immigrants and ethnic minorities in the 28 EU Member States<br><i>Ursula Till-Tentschert</i>   |
| 10:00 am – 10:20 am | Building a Sampling Frame for Migrant Populations via an Onomastic Approach – One or more lessons learned from the Austrian Immigrant Survey 2016<br><i>Dimitri Prandner</i> |
| 10:20 am – 10:40 am | Integration of migrant populations into health monitoring in Germany - Results from a feasibility study<br><i>Johannes Lemcke</i>  |

## Statistics in Behavioral and Educational Sciences I ( Educational Sciences)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* A 021

*Chair:* Timo Gnamb

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|---------------------|---|
| 09:00 am – 09:40 am | Using timing information to model missing values in test data<br><i>Steffi Pohl</i>   |
| 09:40 am – 10:00 am | Paradoxical properties of parameter estimates in multidimensional models<br><i>Pascal Jordan</i>  |
| 10:00 am – 10:20 am | A Hierarchical Latent Response Model for Inferences about Examinee Engagement in Terms of Guessing and Item-Level Nonresponse<br><i>Esther Ulitzsch</i> |
| 10:20 am – 10:40 am | Revisiting Dispersion in Count Data Item Response Theory Models: The Conway-Maxwell-Poisson Counts Model<br><i>Daniela Gühne</i>                        |

## Time Series Analysis III (Change Points)

*Date:* Wednesday, March 20, 09:00 am – 10:40 am *Location:* A 214

*Chair:* Annika Betken

- |                     |  |
|---------------------|--|
| 09:00 am – 09:20 am | Fixed-Bandwidth CUSUM Tests Under Long Memory<br><i>Kai Rouven Wenger</i>                              |
| 09:20 am – 09:40 am | Backward CUSUM for Testing and Monitoring Structural Change<br><i>Sven Otto</i>                        |
| 09:40 am – 10:00 am | Consistent change point detection in a nonparametric time series regression model<br><i>Maria Mohr</i> |
| 10:00 am – 10:20 am | Change-point tests based on self-normalization and subsampling for LRD data<br><i>Annika Betken</i>    |
| 10:20 am – 10:40 am | Robust change point tests using bounded transformations<br><i>Alexander Dürre</i>                      |

## Wednesday, March 20, 1:30 pm – 2:50 pm

### Data Fusion and Meta-Analysis III

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* A 119

*Chair:* Christian Röver

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | Count Outcome Meta-Analysis with Mixed Arm Information<br><i>Dankmar Boehning</i>  |
| 01:50 pm – 02:10 pm | Robust covariance estimation in mixed-effects meta-regression models - A simulation study<br><i>Thilo Welz</i>                                       |
| 02:10 pm – 02:30 pm | Classification of tail-adjusted heterogeneity priors in the Bayesian meta-analysis estimated by bayesmeta<br><i>Malgorzata Roos</i>                  |
| 02:30 pm – 02:50 pm | Recovery of IPD inferences from key IPD summaries only: application to distributed computing under privacy constraints<br><i>Federico Bonofiglio</i> |

### Measurement and Measurement Error II (Measurement Error and missing data)

*Date:* Wednesday, March 20, 1:30 pm – 2:30 pm    *Location:* A 213

*Chair:* Moritz Heene

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|---------------------|---|
| 01:30 pm – 01:50 pm | Comparing cohorts from distinct sources: The issue of differently operationalized predictor variables<br><i>Dominikus Stelzer</i> |
| 01:50 pm – 02:10 pm | Measurement for better public administration research (and better theory, too)<br><i>Xavier Fernández-i-Marín</i>                 |
| 02:10 pm – 02:30 pm | Systematic Review on handling missing participant data in longitudinal studies<br><i>Dominik de Sordi</i>                         |

### Official Statistics and Survey Statistics III

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* A 125

*Chair:* Florian Keusch

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | An alternative measure of income inequality over successive surveys<br><i>Murray Aitkin</i>  |
| 01:50 pm – 02:10 pm | KOALA: A new paradigm for election coverage - An opinion poll based “now-cast” of probabilities of events in multi-party electoral systems<br><i>Alexander Bauer</i> |
| 02:10 pm – 02:30 pm | Nonparametric Multiple Imputation for Bridging Between Different Industry Coding Systems<br><i>Jörg Drechsler</i>  |
| 02:30 pm – 02:50 pm | Estimation of voter transitions in the immediate post-election period<br><i>André Klima</i>  |

### Robust and Nonparametric Statistics I

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* A 214

*Chair:* Natalie Neumeyer

- |                     |   |
|---------------------|---|
| 01:30 pm – 01:50 pm | An extension for smoothed empirical likelihood confidence intervals for extreme quantiles and small sample sizes<br><i>Oliver Thunich</i> |
| 01:50 pm – 02:10 pm | Stochastic models for non-destructive testing in civil engineering<br><i>Markus Sebastian Doktor</i>                                      |
| 02:10 pm – 02:30 pm | Applications of a minimum distance estimator for self-exciting counting processes<br><i>Mirko Alexander Jakubzik</i>                      |
| 02:30 pm – 02:50 pm | Regression based on medians with application to survey data<br><i>Beat Hulliger</i>   |

## Survival and Event History Analysis II (Complex Modeling)

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* B106

*Chair:* Arthur Allignol

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | Detecting Deceleration in Old-Age Mortality Rates Using Focused Model Selection<br><i>Marie Böhnhstedt</i>   |
| 01:50 pm – 02:10 pm | Tree-Structured Modeling of Time-Varying Coefficients for Discrete Time-to-Event Data<br><i>Moritz Berger</i>  |
| 02:10 pm – 02:30 pm | The genesis and use of time-varying frailty models for representing heterogeneities in the transmission of infectious diseases<br><i>Steffen Unkel</i> |
| 02:30 pm – 02:50 pm | Weighting Expectile Regression for Survival Analysis with Right-Censoring<br><i>Alexander Seipp</i>  |

## Statistics in Finance I

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* E 004

*Chair:* Markus Bibinger

- |                     |   |
|---------------------|---|
| 01:30 pm – 02:10 pm | How do market participants contribute to market quality? A statistical approach<br><i>Mathieu Rosenbaum</i>                 |
| 02:10 pm – 02:30 pm | Measuring risks in a network of light-tailed financial objects<br><i>Miriam Isabel Seifert</i>                              |
| 02:30 pm – 02:50 pm | Factor State-Space Models for High-Dimensional Realized Covariance Matrices of Asset Returns<br><i>Jan Patrick Hartkopf</i> |

## Statistics of High Dimensional Data I

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* D 209

*Chair:* Arne Bathke

- |                     |   |
|---------------------|---|
| 01:30 pm – 01:50 pm | A Model-free Approach to Linear Least Squares Regression with Exact Probabilities and Applications to Covariate Selection<br><i>Patrick Laurie Davies</i> |
| 01:50 pm – 02:10 pm | Random coefficient model - model selection and estimation of first and second moments<br><i>Philipp Hermann</i>   |
| 02:10 pm – 02:30 pm | Shrinkage in Estimating High Dimensional Copulas<br><i>Vladimir Pyrlík</i>  |
| 02:30 pm – 02:50 pm | Improving Estimation in Functional Linear Regression with Points of Impact: Insights into Google AdWords<br><i>Christoph Rust</i>                         |

## Statistics in Science, Technology and Industry I

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* A 240

*Chair:* Ansgar Steland

- |                     |  |
|---------------------|--|
| 01:30 pm – 02:10 pm | Some examples of handling uncertainty in industrial applications<br><i>Axel Gandy</i>  |
| 02:10 pm – 02:30 pm | Fully automatic nonparametric intensity estimates for studying the microstructure of composite materials from 2d and 3d images<br><i>Jürgen Franke</i> |
| 02:30 pm – 02:50 pm | Statistical Modelling and Design for Quality Control and Reliability Analysis in Power Semiconductor Manufacturing Processes<br><i>Jürgen Pilz</i>     |



## Time Series Analysis IV (Discrete and Functional Time Series)

*Date:* Wednesday, March 20, 1:30 pm – 2:50 pm    *Location:* A 140

*Chair:* Christian Weiß

- |                     |   |
|---------------------|---|
| 01:30 pm – 01:50 pm | Distance-based Analysis of Ordinal Time Series<br><i>Christian Weiß</i>                         |
| 01:50 pm – 02:10 pm | Autoregressive-type time series models with bounded support<br><i>Lena Reichmann</i>            |
| 02:10 pm – 02:30 pm | Asymptotic Normality of Integrated Periodogram Operators<br><i>Daniel Constantin Rademacher</i> |
| 02:30 pm – 02:50 pm | Semi-parametric hidden Markov models for time series of counts<br><i>Timo Adam</i>              |

## Wednesday, March 20, 3:20 pm – 4:40 pm

### Clustering I (Copula and Genetics)

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* A 119

*Chair:* Ingo Steinwart

- |                     |  |
|---------------------|--|
| 03:20 pm – 03:40 pm | Model-based Clustering with R-vine copulas<br><i>Marta Nai Ruscone</i>   |
| 03:40 pm – 04:00 pm | Dissimilarity functions for copula-based hierarchical clustering of continuous variables<br><i>Sebastian Fuchs</i> |
| 04:00 pm – 04:20 pm | Detection of Genetic Similarities using Unsupervised Random Forest<br><i>Kuete Fouodo</i>                          |
| 04:20 pm – 04:40 pm | Alternative splicing based clustering of genes<br><i>Claus-Dieter Mayer</i>  |

### Official Statistics and Survey Statistics IV

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* A 125

*Chair:* Florian Keusch

- |                     |   |
|---------------------|---|
| 03:20 pm – 03:40 pm | Push-to-web recruitment of a probability-based online panel: Experimental evidence<br><i>Barbara Felderer</i>                                 |
| 03:40 pm – 04:00 pm | Are Paradata Worth the Effort? Using Adjusted Response Times and Other Paradata To Predict Data Quality in a Survey.<br><i>Patrick Schenk</i> |
| 04:00 pm – 04:20 pm | Multi factor modelling of survey external validity by using statistic and administrative data<br><i>Andrei Veikher</i>                        |
| 04:20 pm – 04:40 pm | Mobilfunkdaten in der amtlichen Statistik<br><i>Sandra Hadam</i>  |

## Robust and Nonparametric Statistics II

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* A 214

*Chair:* Natalie Neumeayer

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|---------------------|--|
| 03:20 pm – 03:40 pm | Robustness and Stability of Kernel-Based Machine Learning<br><i>Andreas Christmann</i>   |
| 03:40 pm – 04:00 pm | Fitting additive models with regularized kernel methods: methodology, robustness properties, and business applications<br><i>Robert Hable</i>                          |
| 04:00 pm – 04:20 pm | Empirical examination of the potential of robust regularized regression to examine genetic associations with circulating metabolite levels<br><i>Heike Deutelmoser</i> |
| 04:20 pm – 04:40 pm | Bias Correction for Local Linear Regression Estimation Using Asymmetric Kernels via the Skewing Method<br><i>Masayuki Hirukawa</i>                                     |

## Statistics in Behavioral and Educational Sciences II (Behavioural Sciences)

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* A 213

*Chair:* Steffi Pohl

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|---------------------|---|
| 03:20 pm – 03:40 pm | Dynamic Microsimulation Modelling of Care Needs in Germany<br><i>Christoph Frohn</i>  |
| 03:40 pm – 04:00 pm | Elicited preferences of potential spontaneous unaffiliated on-site volunteers in the context of natural disasters<br><i>Christoph Herrmann</i>  |
| 04:00 pm – 04:20 pm | Tactical Voting and Ticket-Splitting in Mixed Electoral Systems: A Finite-Mixture Approach Applied to the Case of Germany<br><i>Martin Elff</i> |
| 04:20 pm – 04:40 pm | Bayes Factor: Inconsistency in Sequential Updating.<br><i>Patrick Michael Schwaferts</i>  |

## Survival and Event History Analysis III (High-Dimensional Analysis)

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* B106

*Chair:* Moritz Maximilian Berger

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|---------------------|---|
| 03:20 pm – 03:40 pm | Correlation-Adjusted Regression Survival Scores for High-Dimensional Variable Selection<br><i>Thomas Welchowski</i>   |
| 03:40 pm – 04:00 pm | Bayesian variable selection for Cox models with network-structured covariates<br><i>Katrin Madjar</i>                 |
| 04:00 pm – 04:20 pm | Adaptive LASSO Cox frailty models based on the full likelihood<br><i>Maike Hohberg</i>                                |
| 04:20 pm – 04:40 pm | Smooth backfitting of additively structured hazard rates for in-sample forecasting<br><i>Stephan M. Bischofberger</i> |

## Statistics in Finance II

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* E 004

*Chair:* Yarema Okhrin

- |                     |   |
|---------------------|---|
| 03:20 pm – 03:40 pm | Testing for Daily Jumps in Risky Asset Returns: a novel approach based on Gini concentration measure<br><i>V Golosnoy</i> |
| 03:40 pm – 04:00 pm | Dynamic regular vine copulas with an application to exchange rates dependence<br><i>Alexander Kreuzer</i>                 |
| 04:00 pm – 04:20 pm | Portfolio Pretesting with Machine Learning<br><i>Ekaterina Kazak</i>  |
| 04:20 pm – 04:40 pm | The risk function of the goodness-of-fit tests for tail models.<br><i>Ingo Hoffmann</i>                                   |

## Statistics of High Dimensional Data II

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* D 209

*Chair:* Markus Pauly

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|---------------------|--|
| 03:20 pm – 03:40 pm | Detecting binding sites in PAR-CLIP data using a Bayesian hierarchical model<br><i>Eva-Maria Huessler</i>  |
| 03:40 pm – 04:00 pm | High-throughput DNA methylation analysis with reference-free cell type adjustment: method comparison in a real data application<br><i>Miriam Kesselmeier</i> |
| 04:00 pm – 04:20 pm | Forecasting with Supervised Factor Models<br><i>Simon Lineu Umbach</i>   |
| 04:20 pm – 04:40 pm | Impact of Population Stratification on Polygenic Risk Score Approaches<br><i>Anke Huels</i>  |

## Statistics in Science, Technology and Industry II

*Date:* Wednesday, March 20, 3:20 pm – 4:40 pm    *Location:* A 240

*Chair:* Axel Gandy

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|---------------------|---|
| 03:20 pm – 03:40 pm | Inference and Change Detection for LSHD Time Series and Applications to Ozone Monitoring<br><i>Ansgar Steland</i> |
| 03:40 pm – 04:00 pm | Estimation of the Spatial Weighting Matrix for Spatiotemporal Data with Structural Breaks<br><i>Philipp Otto</i>  |
| 04:00 pm – 04:20 pm | Statistical analysis of joint pausing in parallel spike trains<br><i>Gaby Schneider</i>                           |
| 04:20 pm – 04:40 pm | Simultaneous optimization of several correlated response variables<br><i>Eva-Christina Becker-Emden</i>           |

## Wednesday, March 20, 5:00 pm – 6:20 pm

### Advanced Regression Modeling IV (Longitudinal Data and Mixed Models)

*Date:* Wednesday, March 20, 5:00 pm – 6:20 pm    *Location:* D 209

*Chair:* Nadja Klein

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|---------------------|--|
| 05:00 pm – 05:20 pm | Flexible Bayesian modelling of treatment effects on panel outcomes<br><i>Helga Wagner</i>  |
| 05:20 pm – 05:40 pm | A D-Vine Copula-Based Model for Repeated Measurements Extending Linear Mixed Models with Homogeneous Correlation Structure<br><i>Claudia Czado</i> |
| 05:40 pm – 06:00 pm | Solving separation in the mixed effects logistic regression model<br><i>Georg Heinze</i>   |
| 06:00 pm – 06:20 pm | Second order asymptotic biases of consistent estimators under many instruments<br><i>Stanislav Anatolyev</i>                                       |

### Computational Statistics and Statistical Software IV (Software)

*Date:* Wednesday, March 20, 5:00 pm – 6:20 pm    *Location:* A 214

*Chair:* Gero Szepannek

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|---------------------|--|
| 05:00 pm – 05:20 pm | tidyfun: a new framework for representing and working with function-valued data<br><i>Fabian Scheipl</i>   |
| 05:20 pm – 05:40 pm | Controlling the false discovery rate for discrete data: New results and software<br><i>Sebastian Doehler</i>   |
| 05:40 pm – 06:00 pm | recent advances in deep reinforcement learning and the R implementation rIR package<br><i>Xudong Sun</i>   |
| 06:00 pm – 06:20 pm | A workflow for metabolomics using CRAN packages to demonstrate association between a covariate and multiple analytes (some with detection limit)<br><i>Paola G. Ferrario</i> |

## Design of Experiments and Clinical Trials V (Optimal Design II)

*Date:* Wednesday, March 20, 5:00 pm – 6:20 pm    *Location:* A 125

*Chair:* Maryna Prus

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|---------------------|--|
| 05:00 pm – 05:20 pm | Optimal designs for frequentist model averaging<br><i>Kira Alhorn</i>                                      |
| 05:20 pm – 05:40 pm | Optimal Bayesian design for model discrimination via classification<br><i>Markus Hainy</i>                 |
| 05:40 pm – 06:00 pm | The adaptive Wynn-algorithm in generalized linear models with univariate response<br><i>Norbert Gaffke</i> |
| 06:00 pm – 06:20 pm | Locally optimal designs for gamma models<br><i>Osama Idais</i>   |

## Survival and Event History Analysis IV (Competing Risks and Multistate Models I)

*Date:* Wednesday, March 20, 5:00 pm – 6:00 pm    *Location:* B106

*Chairs:* Jan Beyersmann and Matthias Schmid

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|---------------------|--|
| 05:00 pm – 05:20 pm | Consistent estimation in non-Markov multi-state models<br><i>Lucas Radloff</i>   |
| 05:20 pm – 05:40 pm | Goodness-of-fit tests for the cure rate in a mixture cure model<br><i>Ursula U. Müller</i>   |
| 05:40 pm – 06:00 pm | Semiparametric Accelerated Failure Times Quantile and Expectile Regression using Auxiliary Likelihoods<br><i>Fabian Otto-Sobotka</i> |

### Statistics in Finance III

*Date:* Wednesday, March 20, 5:00 pm – 6:20 pm    *Location:* E 004

*Chair:* Markus Bibinger

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|---------------------|---|
| 05:00 pm – 05:20 pm | Goodness-of-fit tests for centralized Wishart processes<br><i>Gustav Alfelt</i>   |
| 05:20 pm – 05:40 pm | Matrixvariate Factor Model for Realized Covariances<br><i>Eugen Ivanov</i>  |
| 05:40 pm – 06:00 pm | Dynamic Modeling of the Global Minimum Variance Portfolio weights<br><i>Laura Reh</i>   |
| 06:00 pm – 06:20 pm | Detecting a hidden component in high-frequency yield curves using rank tests for the covolatility process<br><i>Lars Winkelmann</i> |

### Statistics in Science, Technology and Industry III

*Date:* Wednesday, March 20, 5:00 pm – 6:00 pm    *Location:* A 240

*Chair:* Sonja Kuhnt

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|---------------------|--|
| 05:00 pm – 05:20 pm | Inference on the Second Moment Structure of High-Dimensional Sensor-Type Data in a $K$ - Sample Setting<br><i>Nils Mause</i> |
| 05:20 pm – 05:40 pm | Statistical Process Monitoring to Improve Quality Assurance of Inpatient Care<br><i>Lena Hubig</i>                           |
| 05:40 pm – 06:00 pm | On Steady-state Performance Characteristics of Control Charts – Meaning and Numerics<br><i>Sven Knoth</i>                    |



## Thursday, March 21, 9:00 am – 10:40 am

### Clustering II (Mixture Models)

*Date:* Thursday, March 21, 09:20 am – 10:40 am    *Location:* A 213

*Chair:* Christian Hennig

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|---------------------|--|
| 09:20 am – 09:40 am | Model-based clustering for cytometry<br><i>Jean-Patrick Baudry</i>                               |
| 09:40 am – 10:00 am | Model-based clustering in very high dimensions via adaptive projections<br><i>Bernd Taschler</i> |
| 10:00 am – 10:20 am | Highly Multimodal Likelihood Functions of Mixture Distributions<br><i>Malte Jastrow</i>          |
| 10:20 am – 10:40 am | Maximum Number of Modes of Gaussian Mixtures<br><i>Carlos Améndola</i>                           |

### Classification and Pattern Recognition I

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* E 004

*Chair:* Hans Kestler

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|---------------------|--|
| 09:00 am – 09:40 am | Analyzing and Learning from Ranking Data: New Problems and Challenges<br><i>Eyke Hüllermeier</i>   |
| 09:40 am – 10:00 am | Classification with stylized betweenness-relations allowing for regularization with uniform Vapnik-Chervonenkis-guarantees<br><i>Georg Schollmeyer</i>                   |
| 10:00 am – 10:20 am | Sensible functional linear discriminant analysis<br><i>Lu-Hung Chen</i>  |
| 10:20 am – 10:40 am | Talk and Action in the United Nations General Assembly - Vote-buying and the power to induce states to vote against their own preferences<br><i>Dennis Hammerschmidt</i> |

## Design of Experiments and Clinical Trials VI (Optimal Design III)

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* A 214

*Chair:* Heiko Großmann

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|---------------------|--|
| 09:00 am – 09:20 am | Privacy sets for distance constraints<br><i>Werner G. Müller</i>   |
| 09:20 am – 09:40 am | $c$ - and $\phi_k$ -optimal designs for a class of nonlinear multiple regression models<br><i>Dennis Schmidt</i> |
| 09:40 am – 10:00 am | Optimal inspection times for lifetime estimation based on interval-censored samples<br><i>Nadja Malevich</i>     |
| 10:00 am – 10:20 am | Locally $D$ -optimal Designs for Non-linear Models on the $k$ -dimensional Ball<br><i>Martin Radloff</i>         |
| 10:20 am – 10:40 am | Optimal dose-finding for efficacy-safety-models<br><i>Eirini Renata Tspirpiti</i>                                |

## Data Science

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* D 209

*Chair:* Thomas Seidl

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|---------------------|---|
| 09:00 am – 09:40 am | Robust algorithmics: a foundation for science?!<br><i>Joachim M. Buhmann</i>                    |
| 09:40 am – 10:00 am | Dynamic topological analysis of residential mobility<br><i>Ulrich Pötter</i>                    |
| 10:00 am – 10:20 am | Dealing with complex patterns in mobile app and wearable device data<br><i>Daniela Zöllner</i>  |
| 10:20 am – 10:40 am | Risk factors with a spike at zero in epigenome-wide association studies<br><i>Jochen Kruppa</i> |

## Epidemiology I (Causal inference methods)

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* A 240

*Chair:* Vanessa Didelez

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|---------------------|---|
| 09:00 am – 09:40 am | Estimating per-protocol effects. Randomized trials analyzed like observational studies<br><i>Miguel Hernan</i>                          |
| 09:40 am – 10:00 am | A comparison of sequential and simultaneous Propensity Score matching in a study with three treatment groups<br><i>Dirk Enders</i>      |
| 10:00 am – 10:20 am | Association of Obesity with Health Care Costs: Strengthening the Instrument in Mendelian Randomization Studies<br><i>Christoph Kurz</i> |
| 10:20 am – 10:40 am | Propensity Scores aus hochdimensionalen Routinedaten und das DMP Koronare Herzkrankheit<br><i>Roland Weigand</i>                        |

## Marketing and E-Commerce

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* A 119

*Chair:* Winfried Steiner

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|---------------------|--|
| 09:00 am – 09:40 am | Latent Class Analysis in Marketing: Drawing Inferences for Social Brand Personalities<br><i>Friederike Paetz</i>   |
| 09:40 am – 10:00 am | Statistical considerations on assessment of responsiveness of sales to salesforce effort: A Japanese pharmaceutical company's example<br><i>Toshifumi Sugitani</i> |
| 10:00 am – 10:20 am | Modeling price-sensitive demand: An application to continuous pricing<br><i>Felix Meyer</i>  |
| 10:20 am – 10:40 am | Whether, when and which: modelling advanced seat reservations by airline passengers<br><i>Shuai Shao</i>   |

## Machine Learning I

*Date:* Thursday, March 21, 09:00 am – 10:40 am    *Location:* A 140

*Chairs:* Tim Beißbarth and Hans Kestler

- 09:00 am – 09:20 am      Stability Assessment for Trees and other Supervised Statistical Learning Results  
*Michel Philipp*
- 09:20 am – 09:40 am      Surrogate minimal depth as an importance measure for variables in random forests  
*Stephan Seifert*
- 09:40 am – 10:00 am      A classification tree for functional data  
*Annette Möller*
- 10:00 am – 10:20 am      Measuring and optimizing machine learning interpretability  
*Christoph Molnar*
- 10:20 am – 10:40 am      A multiple testing framework for the efficient statistical evaluation of (machine-learned) prediction models  
*Max Westphal*

## Small Sample Statistics

*Date:* Thursday, March 21, 09:20 am – 10:40 am    *Location:* A 125

*Chairs:* Jörg Rahnenführer and Robert Kwiecien

- 09:20 am – 10:00 am      Convex optimization methods for identifying predictors when  $n < p$   
*Malgorzata Bogdan*
- 10:00 am – 10:20 am      Designing pediatric phase I clinical trials in oncology by borrowing information from trials with adult patients  
*Dario Zocholl*
- 10:20 am – 10:40 am      Use of external information in clinical trials: What can be gained in terms of frequentist power?  
*Annette Kopp-Schneider*

## Thursday, March 21, 1:30 pm – 2:50 pm

### Clustering III (General clustering and classification)

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 213

*Chair:* Jean-Patrick Baudry

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|---------------------|---|
| 01:30 pm – 02:10 pm | Aspects of adaptive density-based cluster analysis<br><i>Ingo Steinwart</i>                   |
| 02:10 pm – 02:30 pm | K-quantiles clustering<br><i>Christian Hennig</i>   |
| 02:30 pm – 02:50 pm | Hybrid Image Classification using Captions and Image Features<br><i>Adalbert F.X. Wilhelm</i> |

### Design of Experiments and Clinical Trials VII (Optimal Design IV)

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 214

*Chair:* Werner G. Müller

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|---------------------|--|
| 01:30 pm – 01:50 pm | Efficient design for longitudinal, cluster-randomized clinical trials with repeated measures<br><i>Florin Vaida</i>          |
| 01:50 pm – 02:10 pm | Optimal Designs in Multiple Group Random Coefficient Regression Models<br><i>Maryna Prus</i>                                 |
| 02:10 pm – 02:30 pm | Efficient Designs for the estimation of mixed and self carry-over effects<br><i>Joachim Kunert</i>                           |
| 02:30 pm – 02:50 pm | Standardized Maximin $D$ - and $c$ -optimal Designs for Poisson Count Data with Gamma Block Effects<br><i>Marius Schmidt</i> |

## Epidemiology II (Environmental risks)

*Date:* Thursday, March 21, 1:30 pm – 2:30 pm      *Location:* E 004

*Chair:* Dirk Enders

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|---------------------|--|
| 01:30 pm – 01:50 pm | Exposure-lag response associations between lung cancer mortality and radon exposure in German uranium miners<br><i>Matthias Aßemacher</i>  |
| 01:50 pm – 02:10 pm | Independent estimation of risk from smoking and radiation for different histologic lung cancer types using generalized additive models and biologically-based models of carcinogenesis<br><i>Noemi Castelletti</i> |
| 02:10 pm – 02:30 pm | Application of weighted risk scores to estimate the relative contribution of environmental and genetic factors to skin aging<br><i>Claudia Wigmann</i>   |

## Machine Learning II

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 140

*Chairs:* Tim Beißbarth and Hans Kestler

- |                     |   |
|---------------------|---|
| 01:30 pm – 01:50 pm | Low-rank estimation with Missing Non At Random data<br><i>Aude Sportisse</i>    |
| 01:50 pm – 02:10 pm | Scaled Expected Improvement for Bayesian Optimization<br><i>Umberto Noè</i>     |
| 02:10 pm – 02:30 pm | Infill Criterion for Multimodal Model-Based Optimisation<br><i>Dirk Surmann</i> |
| 02:30 pm – 02:50 pm | Stable Feature Selection<br><i>Andrea Bommert</i>                               |

## Network Analysis I

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 119

*Chair:* Goeran Kauermann

- |                     |   |
|---------------------|---|
| 01:30 pm – 02:10 pm | Inference for Social Network Models from Egocentrically-Sampled Data<br><i>Pavel N. Krivitsky</i> |
| 02:10 pm – 02:30 pm | Nonparametric inference in the dynamic stochastic block model<br><i>Hajo Holzmann</i>             |
| 02:30 pm – 02:50 pm | Bayesian and Spline based Approaches for (EM based) Graphon Estimation<br><i>Benjamin Sischka</i> |

## Robust and Nonparametric Statistics III

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* D 209

*Chair:* Peter Ruckdeschel

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | Real-time detection of sudden location changes in time series with a time-varying trend<br><i>Sermad Abbas</i> |
| 01:50 pm – 02:10 pm | Paradoxical Results with Ranks for Unequal Sample Sizes<br><i>Edgar Brunner</i>                                |
| 02:10 pm – 02:30 pm | On robust two-way MANOVA tests with applications<br><i>Bernhard Spangl</i>                                     |
| 02:30 pm – 02:50 pm | Generalized sign tests: From asymptotics to efficient computation<br><i>Kevin Leckey</i>                       |

## Survival and Event History Analysis V (Competing Risks and Multistate Models II)

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 021

*Chair:* Jan Beyersmann

- |                     |  |
|---------------------|--|
| 01:30 pm – 01:50 pm | State transition modeling of complex monitored health data<br><i>Jörn Schulz</i> |
|---------------------|--|

- 01:50 pm – 02:10 pm      Resampling complex time-to-event data without individual patient data, with a view towards time-dependent exposures  
*Tobias Bluhmki*
- 02:10 pm – 02:30 pm      Recurrent neural networks for time to event predictions with competing risks  
*Marvin N Wright*
- 02:30 pm – 02:50 pm      Methodological aspects in the analysis of adverse events in time-to-event data  
*Regina Stegherr*

### Time Series Analysis V

*Date:* Thursday, March 21, 1:30 pm – 2:30 pm      *Location:* A 240  
*Chair:* Marc-Oliver Pohle

- 01:30 pm – 01:50 pm      Analyzing Different Facets of Forecast Quality through Decompositions of Loss Functions  
*Marc-Oliver Pohle*
- 01:50 pm – 02:10 pm      Coupled state-switching models with applications in ecology and medicine  
*Jennifer Pohle*
- 02:10 pm – 02:30 pm      Approximate leave-future-out cross-validation for time series models  
*Paul Bürkner*

### Visualisation and Exploratory Data Analysis

*Date:* Thursday, March 21, 1:30 pm – 2:50 pm      *Location:* A 125  
*Chair:* Heike Hofmann

- 01:30 pm – 02:10 pm      Visual Inference: leveraging the power of our eyes  
*Heike Hofmann*
- 02:10 pm – 02:30 pm      HJ-Biplot as a data visualization tool in Social Sciences  
*Asbel Bohiques*
- 02:30 pm – 02:50 pm      A Toolbox for Manipulating and Assessing Color Palettes for Statistical Graphics  
*Achim Zeileis*



## Thursday, March 21, 3:20 pm – 4:40 pm

### Computational Statistics and Statistical Software V (invited)

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 240

*Chair:* Roland Fried

- |                     |  |
|---------------------|--|
| 03:20 pm – 04:00 pm | Identifying Mixtures of Mixtures Using Bayesian Estimation<br><i>Bettina Grün</i>  |
| 04:00 pm – 04:20 pm | Robust outcome prediction across data sources through altered tuning parameter value selection<br><i>Nicole Schüller</i> |
| 04:20 pm – 04:40 pm | Measuring Stability of Replicated LDA Runs<br><i>Jonas Rieger</i>  |

### Design of Experiments and Clinical Trials VIII (Clinical Trials I)

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 214

*Chair:* Tim Friede

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|---------------------|---|
| 03:20 pm – 03:40 pm | Sample size considerations for paired experimental design with incomplete outcomes<br><i>Chul Ahn</i>   |
| 03:40 pm – 04:00 pm | A two-level matching algorithm for a multi-center case-control study using registry data<br><i>Benjamin Mayer</i>   |
| 04:00 pm – 04:20 pm | Equivalence testing with dependent data and unequal variances: Simulation of power and type 1 error for modifications of the TOST procedure<br><i>Christina Loley</i> |
| 04:20 pm – 04:40 pm | Optimal Decisions in the Portfolio Problem<br><i>Robert Richmond Peck</i>   |

### Epidemiology III (Chronic and infectious disease methodology)

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* E 004

*Chair:* André Karch

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|---------------------|--|
| 03:20 pm – 03:40 pm | Prevalence of chronic diseases: Comparison between an analytical relationship and a micro-simulation.<br><i>Tim Filla</i>  |
| 03:40 pm – 04:00 pm | Compression of morbidity due to chronic diseases in Germany? Results from the Survey of Health, Ageing and Retirement in Europe (SHARE) 2004-2015<br><i>Ralph Brinks</i> |
| 04:00 pm – 04:20 pm | Evaluating forecasts of infectious disease spread<br><i>Sebastian Meyer</i>  |
| 04:20 pm – 04:40 pm | Estimation of multivariate hidden population sizes from register data<br><i>Birgit Debrabant</i>   |

### Machine Learning III

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 140

*Chairs:* Tim Beißbarth and Hans Kestler

- |                     |  |
|---------------------|--|
| 03:20 pm – 03:40 pm | Calculating Optimal Subgroup Weights for Survival Analysis using Model-Based Optimization<br><i>Jakob Richter</i>          |
| 03:40 pm – 04:00 pm | Inference for L2-Boosting<br><i>David Rügamer</i>  |
| 04:00 pm – 04:20 pm | An application of Statistical learning to the analysis of mortality by homicide in Mexico, 2014-2017<br><i>Eliud Silva</i> |
| 04:20 pm – 04:40 pm | Statistical Analysis of Benchmark Results<br><i>Daniel Horn</i>  |

## Network Analysis II

*Date:* Thursday, March 21, 3:20 pm – 4:20 pm      *Location:* A 119

*Chair:* Alexander Günther Kreiß

- |                     |   |
|---------------------|---|
| 03:20 pm – 03:40 pm | Iterative Estimation for Exponential Random Graph Models with Nodal Random Effects<br><i>Sevag Kevork</i>   |
| 03:40 pm – 04:00 pm | Modelling Time-Varying Dependence in Dynamic Networks with Applications to Regression and Model-Checking in Survival Analysis<br><i>Alexander Günther Kreiß</i> |
| 04:00 pm – 04:20 pm | On the Construction of Invariant Measures for Graph Partition Comparison<br><i>Andreas Geyer-Schulz</i>   |

## Robust and Nonparametric Statistics IV

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* D 209

*Chair:* Peter Ruckdeschel

- |                     |   |
|---------------------|---|
| 03:20 pm – 04:00 pm | Halfspace depth for scatter matrices<br><i>Davy Paindaveine</i>             |
| 04:00 pm – 04:20 pm | Choosing among notions of depth for multivariate data<br><i>Karl Mosler</i> |
| 04:20 pm – 04:40 pm | Test based on sign depth for multiple regression<br><i>Melanie Horn</i>     |

## Survival and Event History Analysis VI (Prediction)

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 021

*Chair:* Matthias Schmid

- |                     |   |
|---------------------|---|
| 03:20 pm – 03:40 pm | Joint Modelling approaches to survival analysis via likelihood-based boosting techniques.<br><i>Colin Griesbach</i> |
| 03:40 pm – 04:00 pm | Bayesian joint latent class models of longitudinal and time-to-event outcomes<br><i>Matthias Brueckner</i>          |

- 04:00 pm – 04:20 pm      A simulation study comparing different approaches for de-  
detection of covariate-by-treatment interactions  
*Bernhard Haller*
- 04:20 pm – 04:40 pm      Maximum Likelihood Prediction of Record Values  
*Grigoriy Volovskiy*

### Statistics in Science, Technology and Industry IV

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 213  
*Chair:* Jürgen Pilz

- 03:20 pm – 03:40 pm      What we might miss: Stress-testing measurements of dark  
energy  
*Ben Moews*
- 03:40 pm – 04:00 pm      Joint and conditional dependence modelling of district heat-  
ing demand and weather conditions: a copula-based approach  
*F. Marta L. Di Lascio*
- 04:00 pm – 04:20 pm      Modeling Fuel Injector Spray Characteristics of Jet Engines  
Using Vine Copulas  
*Maximilian Coblenz*
- 04:20 pm – 04:40 pm      Bayesian Prediction for failure times in Fatigue Behavior of  
Prestressed Concrete  
*Sophie Tchanyou Ganme*

### Visualisation and Exploratory Data Analysis

*Date:* Thursday, March 21, 3:20 pm – 4:40 pm      *Location:* A 125  
*Chair:* Hans Kestler

- 03:20 pm – 03:40 pm      Graphics in Research and Teaching illustrated in Forschung  
und Lehre  
*Antony Unwin*
- 03:40 pm – 04:00 pm      A new approach to model and visualize Airbnb listing prices  
by the use of a smoothing surface on spatial information  
*Bernhard Hrobath*
- 04:00 pm – 04:20 pm      iSEE: RNA-sequencing data exploration made easy and re-  
producible  
*Federico Marini*

04:20 pm – 04:40 pm      Short ordinal patterns in time series analysis  
*Karsten Keller*

## Thursday, March 21, 5:00 pm – 6:20 pm

### Advanced Regression Modeling V

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 021  
*Chair:* Elmar Spiegel

05:00 pm – 05:20 pm      Using mixed multinomial probit models to explain daily mobility behavior in a large panel data set  
*Manuel Batram*

05:20 pm – 05:40 pm      Baseline-adjusted Proportional Odds Models for Quantification of Treatment Effects in Neurological Trials with Ordinal Outcomes  
*Muriel Buri*

### Causal Inference II (Aspects of Propensity Score Methods)

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* B106  
*Chairs:* Heinz Leitgöb and Martin Elff

05:00 pm – 05:20 pm      Measuring global covariate balance in matched propensity score analysis  
*Lina Glaubitz*

05:20 pm – 05:40 pm      Propensity Weighting in the Estimation of Direct Effects.  
*Christiana Drake*

### Classification and Pattern Recognition II

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 125  
*Chair:* Andreas Geyer-Schulz

05:00 pm – 05:20 pm      Evaluate the diagnostic accuracy for disease of longitudinal markers with missing data  
*Cuiling Wang*

05:20 pm – 05:40 pm      Measuring conditional agreement in method comparison studies by mixed-effects model trees  
*Alexander Hapfelmeier*

### Design of Experiments and Clinical Trials IX (Clinical Trials II)

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 214  
*Chair:* Ekkehard Glimm

05:00 pm – 05:20 pm      Adaptive Propensity Score Procedure Improves Matching in Prospective Observational Trials  
*Dorothea Weber*

05:20 pm – 05:40 pm      Diskussion der Estimand-Strategien aus Sicht der Nutzenbewertung  
*Ralf Bender*

### Data Fusion and Meta-Analysis IV

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 119  
*Chairs:* Georgia Salanti and Sibylle Sturtz

05:00 pm – 05:20 pm      Dynamically borrowing strength from another study  
*Christian Röver*

05:20 pm – 05:40 pm      Meta-analysis of few studies involving rare events  
*Burak Kürsüd Günhan*

### Epidemiology IV

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* E 004  
*Chair:* Ralph Brinks

05:00 pm – 05:20 pm      Statistical Tools for Assessing the Exposome  
*Mercè Garí*

05:20 pm – 05:40 pm      Quantile regression for the applied user – opportunities, challenges, examples  
*Andreas Beyerlein*

## Machine Learning IV

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 140

*Chairs:* Tim Beißbarth and Hans Kestler

05:00 pm – 05:20 pm      Forecasting of high-dimensional realized covariances with  
reservoir computing

*Lyudmila Grigoryeva*

05:20 pm – 05:40 pm      Gaussian-Process Approximations for Big Data

*Matthias Katzfuss*

## Statistics of High Dimensional Data III

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* D 209

*Chair:* Taras Bodnar

05:00 pm – 05:40 pm      The Growth Curve model under high dimensions with appli-  
cations to profile analysis

*Dietrich von Rosen*

## Statistics in Science, Technology and Industry V

*Date:* Thursday, March 21, 5:00 pm – 5:40 pm      *Location:* A 213

*Chair:* Sven Knoth

05:00 pm – 05:20 pm      Inlier Detection

*Undine Falkenhagen*

05:20 pm – 05:40 pm      A new statistical index to evaluate sleep quality using sensors

*Gloria Gheno*

Friday, March 22, 9:00 am – 10:40 am

### Advanced Regression Modeling VI (Modeling Multivariate Dependence)

*Date:* Friday, March 22, 09:00 am – 10:40 am      *Location:* A 021

*Chair:* Thomas Kneib

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|---------------------|--|
| 09:00 am – 09:40 am | Generalised Joint Regression Modelling<br><i>Giampiero Marra</i>   |
| 09:40 am – 10:00 am | Predicting matches in international football tournaments via generalised joint regression modelling<br><i>Hendrik van der Wurp</i> |
| 10:00 am – 10:20 am | Structured additive multiple-output noncrossing Bayesian quantile regression models<br><i>Bruno Santos</i>                         |
| 10:20 am – 10:40 am | Non-stationary spatial regression for modelling monthly precipitation in Germany<br><i>Isa Marques</i>                             |

### Causal Inference III (Neyman-Rubin Model and Observational Studies)

*Date:* Friday, March 22, 09:20 am – 10:40 am      *Location:* A 125

*Chairs:* Heinz Leitgöb and Martin Elff

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|---------------------|---|
| 09:20 am – 09:40 am | Estimating continuous treatment effect functions with joint sufficient dimension reduction<br><i>Ming-Yueh Huang</i>              |
| 09:40 am – 10:00 am | Causal inference in multi-state models - estimands and estimators of the population-attributable fraction<br><i>Maja von Cube</i> |
| 10:00 am – 10:20 am | Practical and Effective Estimation of Effect Heterogeneity by Modified Causal Forests<br><i>Michael Lechner</i>                   |
| 10:20 am – 10:40 am | Search for predictive factors based on observational studies<br><i>Julia Krzykalla</i>  |



## Design of Experiments and Clinical Trials X (Clinical Trials III)

*Date:* Friday, March 22, 09:20 am – 10:40 am      *Location:* A 214

*Chair:* Joachim Gerß

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|---------------------|--|
| 09:20 am – 09:40 am | Blinded sample size reestimation in multi-centre randomized controlled clinical trials<br><i>Markus Harden</i>   |
| 09:40 am – 10:00 am | A Bayesian decision-theoretic framework for evaluation of Bayesian clinical trials performance and robustness to prior-data conflict<br><i>Silvia Calderazzo</i> |
| 10:00 am – 10:20 am | Planning sequential Bayesian designs: Sample size prediction and stopping boundary specification<br><i>Angelika M. Stefan</i>                                    |
| 10:20 am – 10:40 am | A new conditional performance score for evaluating sample size recalculation rules in adaptive designs<br><i>Carolin Herrmann</i>                                |

## Machine Learning V

*Date:* Friday, March 22, 09:00 am – 10:40 am      *Location:* A 140

*Chairs:* Tim Beißbarth and Hans Kestler

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|---------------------|--|
| 09:00 am – 09:40 am | Learning in artificial and real neural networks<br><i>Günther Palm</i>   |
| 09:40 am – 10:00 am | Conditional sampling for exploring biological connections in single cell RNA-Seq data with Deep Boltzmann Machines<br><i>Moritz Hess</i> |
| 10:00 am – 10:20 am | Pattern Detection of Life Events and Daily Hassles Using Longitudinal Deep Boltzmann Machines<br><i>Göran Köber</i>                      |
| 10:20 am – 10:40 am | Releasing Differentially Private Synthetic Micro-Data with Bayesian GANs<br><i>Christian Arnold</i>                                      |

### Network Analysis III

*Date:* Friday, March 22, 09:20 am – 10:40 am      *Location:* A 213

*Chair:* Pavel N: Krivitsky

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|---------------------|---|
| 09:20 am – 09:40 am | Preservation of multivariate correlation-based networks constructed from high-dimensional data<br><i>Pascal Schlosser</i> |
| 09:40 am – 10:00 am | Tensor decomposition for dynamic clustering in multi-modal social networks<br><i>Angelika Schmid</i>                      |
| 10:00 am – 10:20 am | Regression-based Network Reconstruction with Nodal and Dyadic Covariate Effects<br><i>Michael Lebacher</i>                |
| 10:20 am – 10:40 am | A smooth dynamic network model for patent collaboration data<br><i>Verena Bauer</i>                                       |

### Robust and Nonparametric Statistics V

*Date:* Friday, March 22, 09:40 am – 10:40 am      *Location:* E 004

*Chair:* Peter Ruckdeschel

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|---------------------|--|
| 09:40 am – 10:00 am | M-Estimation with Incomplete and Dependent Multivariate Data<br><i>Gabriel Frahm</i>       |
| 10:00 am – 10:20 am | Robust estimators and tests for Gaussian graphical models<br><i>Daniel Vogel</i>           |
| 10:20 am – 10:40 am | A simple non-parametric goodness-of-fit test for elliptical copulas<br><i>Stephan Haug</i> |

## Statistics of High Dimensional Data IV

*Date:* Friday, March 22, 09:20 am – 10:40 am      *Location:* D 209

*Chair:* Erik Thorsén

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|---------------------|--|
| 09:20 am – 09:40 am | Sampling Distributions of Optimal Portfolio Weights and Characteristics<br><i>Erik Thorsén</i>                       |
| 09:40 am – 10:00 am | Best Subset Selection: The Holy Grail for Variable Selection?<br><i>Louis Dijkstra</i>                               |
| 10:00 am – 10:20 am | Nonparametric Bayesian dependent Chained Equation Multiple Imputation for Incomplete Surveys<br><i>Humera Razzak</i> |
| 10:20 am – 10:40 am | Adaptive Discrete Smoothing for (High-Dimensional and Nonlinear) Panel Data<br><i>Martin Spindler</i>                |

## Time Series Analysis VI (Time Series Resampling)

*Date:* Friday, March 22, 09:00 am – 10:40 am      *Location:* A 240

*Chair:* Matei Demetrescu

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|---------------------|---|
| 09:00 am – 09:40 am | Detecting Regimes of Predictability in the U.S. Equity Premium<br><i>A.M. Robert Taylor</i>   |
| 09:40 am – 10:00 am | Extending the validity of frequency domain bootstrap methods to general stationary processes<br><i>Marco Meyer</i>  |
| 10:00 am – 10:20 am | Bootstrapping characteristic functions under local stationarity<br><i>Carina Beering</i>  |
| 10:20 am – 10:40 am | The impact of selecting the truncation indices on the order estimation of subspace methods—a simulation study with seasonally integrated processes.<br><i>Rainer Buschmeier</i> |

# Poster Session

Wednesday, March 20, 6:30 pm – 7:30 pm

*Location:* Senatssaal (Room E 106) and Dekanatsgang

- Poster 1      Beyond the law of large numbers  
*Uwe Saint-Mont*
- Poster 2      Short Term Forecasting for Electricity Demand in Egypt Using Artificial Neural Networks  
*Eman Mahmoud Abdelmetaal Mohamed*
- Poster 3      Generalized Weibull family of distribution using new generator  
*Muhammad Bilal Bhutta*
- Poster 4      Mixture model-based pattern recognition in longitudinal continuous data with nonignorable missingness  
*Dörte Huscher*
- Poster 5      Maxchisq - A new R package for maximally selected chi-square statistics  
*Dominik Thiele*
- Poster 6      Automatic selection of time series imputation algorithms  
*Steffen Moritz*
- Poster 7      Optimal sampling rates for autoregressive modeling of affective processes  
*Janne Adolf*
- Poster 8      Propensity score methods in the analysis of rare events in pregnancy  
*Tatjana Tissen-Diabaté*
- Poster 9      Information Geometry of Estimating Functions  
*Masayuki Henmi*
- Poster 10     Joint modelling of binary and continuous measurements in large health surveys and its application to network analysis, frailty, and mortality in NHANES 1999-2010  
*Debangana Dey*
- Poster 11     Transformation groups and their geometric interpretation as basis of supervised machine learning  
*Tatjana Lange*
- Poster 12     Quasi-linear Logistic Model  
*Katsuhiko Omae*

- Poster 13 Interim analysis of the pulmonary tuberculosis sequelae in a multicenter African TB Cohort  
*Abhishek Bakuli*
- Poster 14 Complete separation in data in the context of antimicrobial susceptibility breakpoints derivation  
*Sona Humanyan*
- Poster 15 Social Equity and Ecological Sustainability - Can the Two be Achieved Together?  
*Franziska Ellen Dorn*
- Poster 16 Comparison of different preprocessing methods for the analysis of metabolite data  
*Miriam Sieg*
- Poster 17 Julia as Data Scientist's Working Environment: A Deep Learning Case Study  
*Maren Hackenberg*
- Poster 18 Modelling sensitivity of detection of extrasystoles and the impact of detection methods on parameters of heart rate variability – results of the CARLA cohort study  
*Frank Sauerbier*
- Poster 19 Association of Antidepressant Use with Composite Risk of Stroke and Mortality in Elderly  
*Begüm Irmak Ön Seker*
- Poster 20 More than one way: Exploring the capabilities of different estimation approaches to joint models.  
*Anja Rappl*
- Poster 21 Local Linear Quantile Regression with measurement errors  
*Dimitris Avraam Ioannides*
- Poster 22 Evaluation of Causal Relationship between Metabolites of Tryptophan Pathway and Measures of Kidney Function: A Mendelian Randomization Analysis  
*Peggy Sekula*
- Poster 23 Using posterior predictive model checking on longitudinal item response models  
*Anna Scharl*
- Poster 24 Too many zeros? How good are two-part models for the analysis of longitudinal data in health care research?  
*Iris Reinhard*
- Poster 25 Stochastic Profiling for mRNA Seq Data  
*Lisa Amrhein*

- Poster 26 Using the  $L^2$  Wasserstein distance to identify differential distributions in single-cell RNA sequencing data  
*Roman Schefzik*
- Poster 27 Why quantitative Variables should not be recoded as categorical  
*Dalson Figueiredo*
- Poster 28 Statistical Methods in Renewable Energy Systems  
*Zahra Amini Farsani*
- Poster 29 A Gibbs sampling method for learning Directed Acyclic Graph  
*Vahid RezaeiTabar*
- Poster 30 Simulation and data-generation for random-effects network meta-analysis of binary outcome including multi-arm trials  
*Svenja Seide*
- Poster 31 Bayessche Metaanalysen in systematischen Reviews  
*Sibylle Sturtz*
- Poster 32 Optimal Experimental Designs for Multiple Response Accelerated Degradation Tests  
*Helmi Sobhi Shat*
- Poster 33 On approximation of the quasi Fisher information matrix for binary mixed regression and its application to optimal design  
*Parisa Parsamaram*
- Poster 34 Relative treatment effects against the ‘average treatment’ using an alternative parameterisation of the network meta-analysis model  
*Adriani Nikolakopoulou*
- Poster 35 Polygenetic risk scores for ECG parameters derived from genome-wide association analyses  
*Rebecca Freudling*
- Poster 36 Investigating the effects of cluster analysis on grouped ridge regression in genome-wide association studies  
*Michael Doschoris*
- Poster 37 Boolean modeling in biomedicine: From idealized theory to biological reality  
*Turid Frahnöw*
- Poster 38 Impact of spatial proximity and virtual networks on scientific collaboration  
*Hannah Busen*
- Poster 39 Structural Equation Modeling: From manifest to latent variables  
*Christoph Borzikowsky*
- Poster 40 The Effect of Bariatric Surgery on Health Care Costs: A Synthetic Control Approach Using Bayesian Structural Time Series  
*Christoph Kurz*

- Poster 41    Deep Boltzmann Machines for Simulating Single-Cell RNA-Sequencing Data  
*Martin Treppner*
- Poster 42    Group-based multitrajectory modeling for chronic disorders: Assessing the interaction between type 1 diabetes and puberty  
*Anke Schwandt*
- Poster 43    Which experiences are more or less harmful? - Using Item-Response Theory to scale harms from others' heavy drinking reported in fifteen countries  
*Ulrike Grittner*
- Poster 44    Is there an association between social determinants and care dependency risk? A multi-state model analysis of a longitudinal study  
*Alice Schneider*
- Poster 45    Bayesian dynamic latent models for comparative politics and public policy  
*Xavier Fernández-i-Marín*
- Poster 46    Forecasting and the universality problem in dynamic machine learning  
*Juan-Pablo Ortega*
- Poster 47    Scaling Based on Classification: Exploring the Use of IRT Models as an Aggregating Technique in Ensemble Learning for Text Documents  
*Sandra Wankmüller*
- Poster 48    Low-rank estimation with Missing Non At Random data  
*Aude Sportisse*
- Poster 49    dcortools: Providing fast and flexible distance correlation methods for statistical applications  
*Dominic Edelmann*
- Poster 50    On the test of the mean-variance efficiency of tangency portfolio in high dimensions  
*Stanislas Muhinyuza*
- Poster 51    Causal Inference with Missing Values: Treatment Effect Estimation of Tranexamic Acid on Mortality for Traumatic Brain Injury Patients  
*Imke Mayer*
- Poster 52    Modeling the proportion of infected individuals over time – an evaluation of different forecasting approaches  
*Junyi Lu*
- Poster 53    The comparison of multiple imputation strategies for missing ordinal outcomes in longitudinal panel studies  
*Pimrapat Gebert*
- Poster 54    compboost: A Modular Framework for Component-Wise Boosting in R  
*Daniel Schalk*

- Poster 55 Relaxing the Exclusion Restriction in Shift-Share Instrumental Variable Estimation  
*Nicolas Apfel*
- Poster 56 Bayesian Survival Analysis under Model Uncertainty using the Generalized F Distribution  
*Ilias Socrates Leriou*
- Poster 57 Using Cash Bonuses for Early Participation to Improve Postal Recruitment of a Probability-Based Online Panel  
*Ulrich Krieger*
- Poster 58 Exact and approximate distributions of the largest eigenvalue of singular Wishart matrix  
*Koki Shimizu*
- Poster 59  $L_2$ -Boosting for complicated loss functions by means of the column measure  
*Tino Werner*
- Poster 60 Nociception and pain in animal models: intricacies of the vonFrey-assay  
*Tina Lang*
- Poster 61 Comparative Study of Gaussian Stochastic Process Model in Emulating a Simple Pendulum Model Using Different Correlation Functions  
*Kazeem Adewale Osulale*
- Poster 62 Risk factors for surgical intervention of early medical abortion  
*Sarah Friedrich*
- Poster 63 Modellgüte für das Proportional Hazard Modell mit SAS – neue Möglichkeiten in PROC PHREG  
*Sandra Christina Müller*
- Poster 64 Distribution selection for generating reference intervals: an application in psychometrics  
*Vasiliki Bountziouka*
- Poster 65 Refined modelling and results of cost-effectiveness on genetic testing for autism  
*Wolfgang Rudolph-Rothfeld*
- Poster 66 Bayesian Survival Analysis Using Weibull Regression Model: An Application of Cervical Cancer  
*Serifat Adedamola Folorunso*
- Poster 67 The (Non-)Significance of Reporting Errors in Economics - Evidence from three top journals  
*Peter Pütz*
- Poster 68 A Necessary Test for Elliptical Symmetry  
*Toshiya Iwashita*



- Poster 69    Maximum Entropy Copula in the Fluorescence Microscopy Imaging  
*Farsani, Zahra Amini Farsani*
- Poster 70    The Fit of Fit Indices  
*Miriam Reußner*
- Poster 71    A Random Forest Approach for Modeling Bounded Outcomes  
*Leonie Weinhold*
- Poster 72    Are really most of our research findings false? An empirical estimation of trends in statistical power, publication bias and the false discovery rate in psychological journals (1975-2017)  
*Andreas Schneck*
- Poster 73    Rhomboid Designs for Linear Regression with Correlated Random Coefficients  
*Frank Röttger*
- Poster 74    Multiple treatment comparison of biologic disease-modifying anti-rheumatic drugs (DMARDs) in rheumatoid arthritis by network meta-analysis: Methodologic approach and preliminary results  
*Christoph Schürmann*
- Poster 75    Patient Reported Outcomes in Multiple Myeloma patients  
*Irena Cenzer*
- Poster 76    Designs for some types of inhibited kinetic reactions  
*Irene Mariñas-Collado*
- Poster 77    Temporal trends of adverse outcomes in diabetic pregnancies in Bavaria, Germany, between 2001 and 2016  
*Andreas Beyerlein*
- Poster 78    Multiple treatment comparisons for binomial data when one treatment contains only zero counts  
*Firas Nasser Fneish*

# Special Meetings / Committee Meetings

## **DAGStat Vertreterversammlung**

*Time:* Monday, March 18, 3:30 pm – 7:30 pm

## **IBS-DR Vorstandssitzung, anschließend Beiratssitzung**

*Time:* Monday, March 18, 3:30 pm – 7:30 pm

## **AG Leitersitzung**

*Time:* Tuesday, March 19, 12:30 pm – 1:15 pm

*Location:* A 021

## **Editorial Board Meeting des Biometric Journal**

*Time:* Tuesday, March 19, 12:30 pm – 1:30 pm

*Location:* A 119

## **AG Sitzung Bayes Methodik**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 021

## **AG Landwirtschaftliches Versuchswesen**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 119

## **AG Didaktik**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 140

## **AG Nachwuchs**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 213

**AG Nichtparametrische Methoden**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* A 214

**AG Populationsgenetik**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* D 209

**AG Stat. Methoden in der Epidemiologie und Stat. Methoden in der Medizin**

*Time:* Wednesday, March 20, 12:35 pm – 1:20 pm

*Location:* E 004

# Awards

## DAGStat Medal

Following the inaugural awarding of the DAGStat medal on the previous DAGStat conferences, the DAGStat societies this year honour two 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 prize winners. Members of DAGStat's executive board present the DAGStat medal on Thursday morning as part of the plenary session at 11:10 am (Audimax), accompanied by a laudatory speech highlighting the contribution of this year's awardees:

*Prof. Dr. Karl Mosler*

*Prof. Dr. Martin Schumacher*

## Award Session (IBS-DR)

The German Region of the International Biometric Society (IBS-DR) awards the Bernd-Streitberg-Preis and the Gustav-Adolf-Lienert-Preis to promising students and young investigators for outstanding theses and publications in the field of biometry.

The this year's Bernd-Streitberg-Preis go to *Jasmin Rühl* (best Bachelor Thesis) and *Stefanie Krügel* (best Master Thesis). The Gustav-Adolf-Lienert-Preis is given to *Tobias Mütze* as well as to *Philipp Wittenberg*.

The awardees will be honoured during a special session on Wednesday, March 20, at 9:00 am (D 209).

# Social Program

## Junior Meets Senior

*Time:* Wednesday, March 20, 7:30 pm

*Location:* StuCafé, Adalbertstraße 5, 80799 München

## Conference Dinner

*Time:* Thursday, March 21, 7:30 pm

*Location:* Augustiner Keller, Arnulfstraße 52, 80335 München

**Note that for both events, prior registration is required.**

# Acknowledgement

We gratefully acknowledge financial support from:

- Deutsche Forschungsgemeinschaft
- Ludwig-Maximilians-Universität München

# General Information A-Z

## Accommodation

For a list of hotels and hostels please visit:

[www.dagstat2019.statistik.uni-muenchen.de/travel\\_accommodation](http://www.dagstat2019.statistik.uni-muenchen.de/travel_accommodation)

## App

A smartphone app called *Conference4me* for the conference program is available for Smartphones in the App Store/Play Store and will be updated regularly throughout the conference.

## ATMs

Several ATMs are located close to the university, two of them at the subway station *Universität* (Sparkasse and Volksbank/Raiffeisenbank) and in the city center at the public station *Marienplatz* (Sparkasse, Deutsche Bank, HypoVereinsbank, Euronet, Commerzbank and ING-DiBa).

## Badge

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

## Bicycle rental

Bicycle rentals are provided by the *Deutsche Bahn*:

[www.muenchen.de/int/en/traffic/biking/call-a-bike.html](http://www.muenchen.de/int/en/traffic/biking/call-a-bike.html)

and the *MVG*:

[www.mvg.de/services/mobile-services/mvg-rad.html](http://www.mvg.de/services/mobile-services/mvg-rad.html)

See also the homepage of the City of Munich:

[www.muenchen.de/int/en/traffic/biking](http://www.muenchen.de/int/en/traffic/biking)

## Certificate of attendance

A certificate of attendance is part of your conference material.

## Coffee breaks

Coffee, tea, and water during the coffee breaks are included in the registration fee and will be served in the main building of the LMU (*Hauptgebäude*, Geschwister-Scholl-Platz 1) in the *Lichthof* (ground floor) and the *Speerträger* (first floor).

## Cultural activities

Munich is a lively town with plenty of cafés and bars located in the historical center and around the university. There are also many cultural highlights as for example the *Pinakotheken* or the *Deutsche Museum*. We refer to:

[www.muenchen.de/rathaus/home\\_en/Department-of-Arts-and-Culture.html](http://www.muenchen.de/rathaus/home_en/Department-of-Arts-and-Culture.html)  
for arts and culture in Munich and to:

[www.muenchen.de/int/en/sights/attractions.html](http://www.muenchen.de/int/en/sights/attractions.html)  
for attractions and highlights in Munich.

## Food and Drinks

Lunch is not included in the registration fee. Close to the conference venue you find many restaurants and cafés for lunch. A list of restaurants can be picked up at the registration desk. It is also possible to use the canteen of the university located at *Leopoldstr. 13*. Payment in cash is not possible at the canteen. In order to pay you need to pick up a guest canteen card (go right after the entrance to the red cube).

Drinks at the *Poster Session* and the *Junior meets Senior* event are free of charge. The price for the *Conference Dinner* includes food (buffet) but no drinks.

## Language

Conference languages are English and German.

## Office

The conference office is located in the *Kleine Aula* (LMU Main Building, Room A 120).

## Organizing Institution

Department of Statistics  
Ludwigstr. 33  
80539 Munich



## Parking

There is generally no public parking space available on the university campus.

## Public Transport

Many interesting places in Munich are near to the university and within walking distance. It is only a 10-minute walk from the university to the city centre. If your accommodation is a bit further away you might consider using public transport. The underground lines U6 and U3 provide public transport to the conference venue.

## Taxi

Telephone numbers for a cab in Munich:

*Taxistand Amalienstraße* +49 89 28755554

*Taxi-München eG* +49 09 21610 or +49 89 19410

*IsarFunk Taxizentrale* +49 89 450540

## Tourist Information

Touristeninformation München

Marienplatz 8

80331 Munich

## Venue

LMU main building, Geschwister-Scholl Platz 1, 80539 Munich

## Wheelchair access

All conference locations are wheelchair accessible.

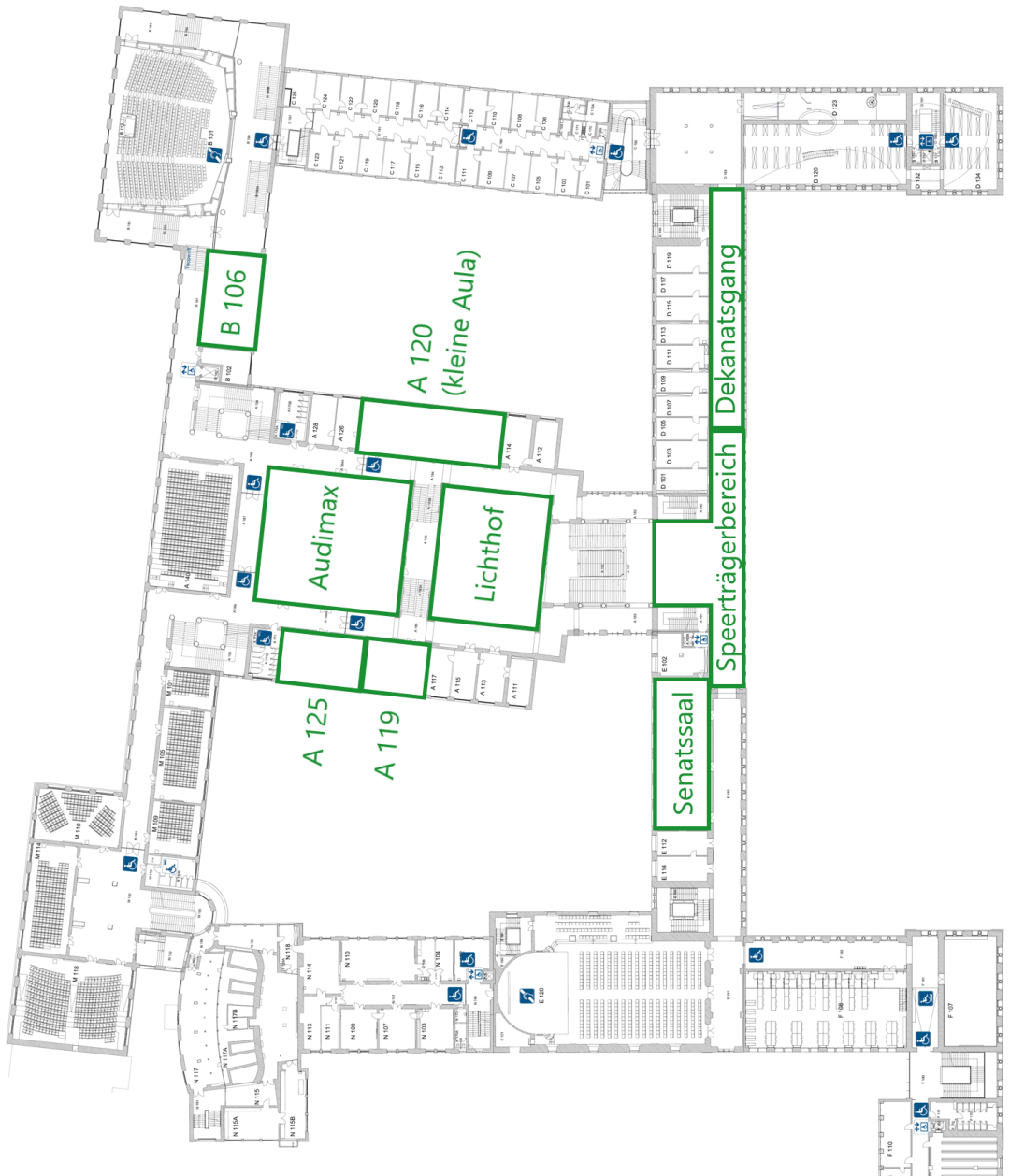
## WiFi

The LMU Munich is part of the eduroam network allowing you to use your home institution account. If you do not have an eduroam account you can use @BayernWLAN that is freely available for everyone.

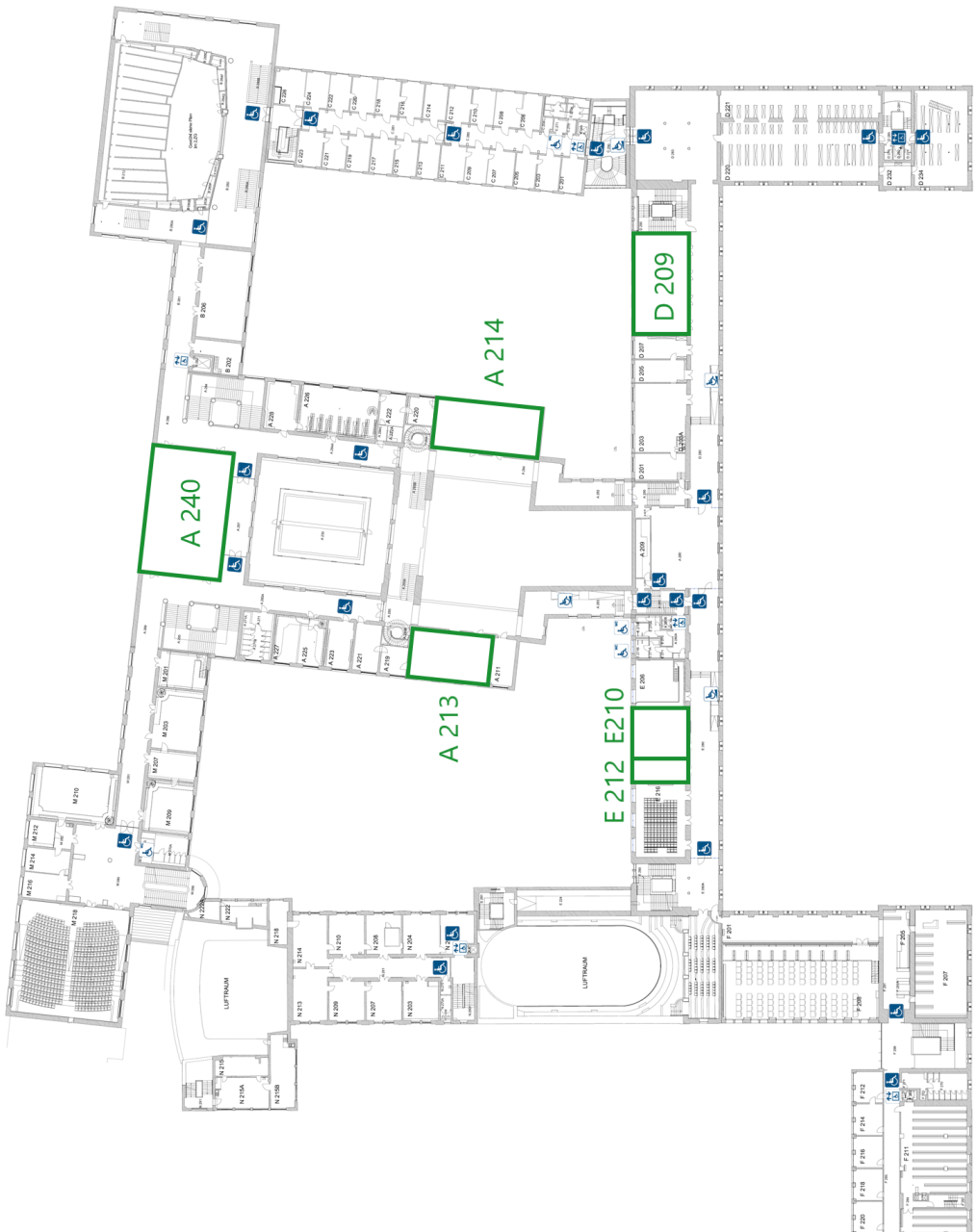
# Ground Floor Main Building (Hauptgebäude, Geschwister-Scholl Platz 1)

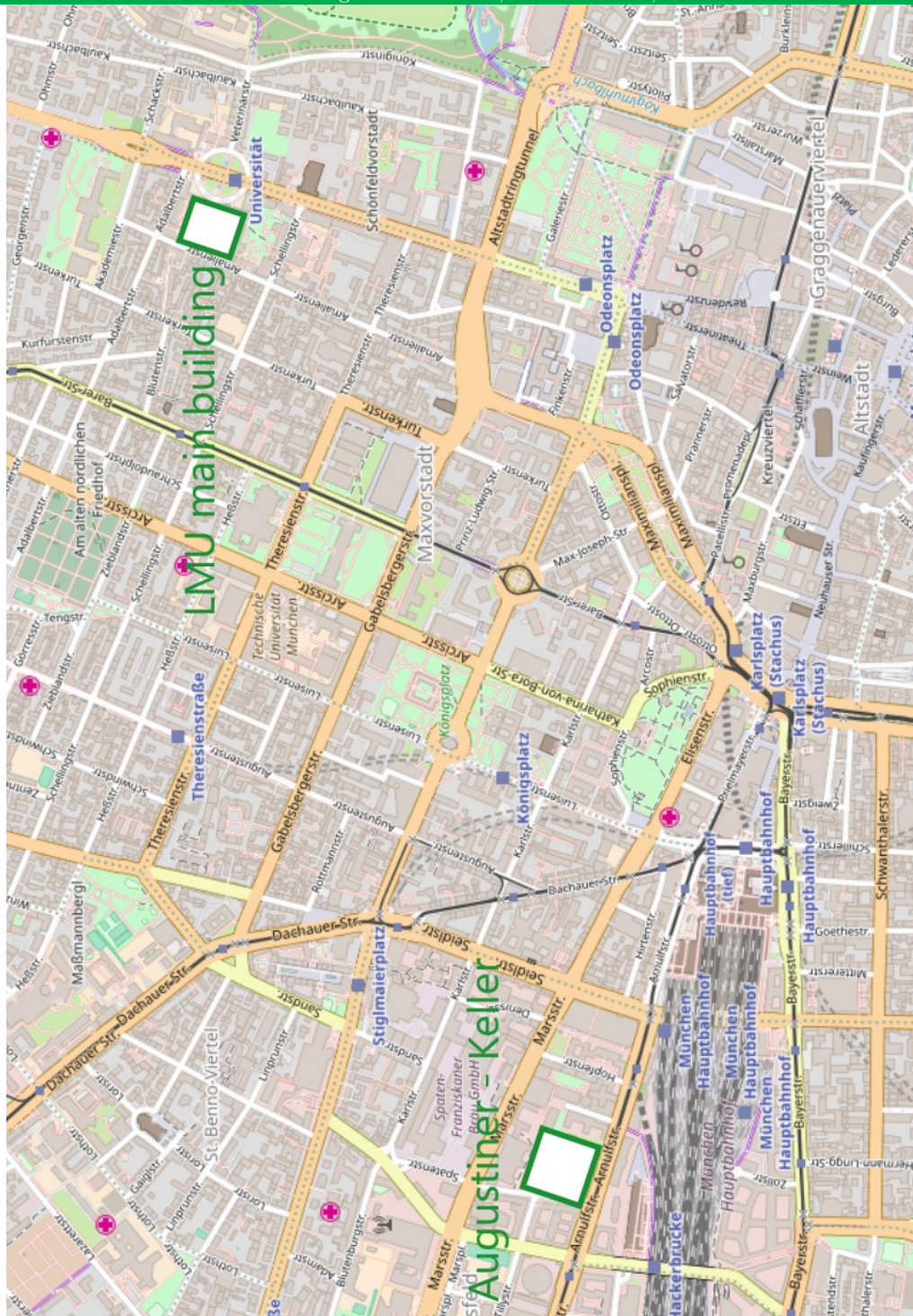


# First Floor Main Building (Hauptgebäude, Geschwister-Scholl Platz 1)



# Second Floor Main Building (Hauptgebäude, Geschwister-Scholl Platz 1)







**[www.dagstat2019.de](http://www.dagstat2019.de)**

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