



DAGStat (Deutsche Arbeitsgemeinschaft Statistik)  
(Herausgeber)  
**DAGStat 2022**  
Book of Abstracts



**DAGStat 2022**

Statistics under one umbrella

6<sup>TH</sup> JOINT STATISTICAL MEETING

March 28 – April 1, 2022, UKE Hamburg

MIND THE GAP –

INTERPLAY BETWEEN THEORY AND PRACTICE



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Monday, March 28, 7:30 pm – 9:00 pm

## Statistik in der Öffentlichkeit

Chair(s): Tim Friede, Ralf Münnich, Room: HSN55

**Walter J. Radermacher**

*Statistik für Klimaschutz und Gesundheit – (mehr) Fortschritt wagen!*

7:30pm – 9:00pm (CTID 159 on page 130)

Tuesday, March 29, 9:00 am – 10:40 am

## Design of Experiments and Clinical Trials I

Chair(s): Kirsten Schorning, Geraldine Rauch, Room: HSN30

**Cornelia Ursula Kunz**

*Adaptive phase 2/3 drug development programs – The pros and cons*

9:00am – 9:40am (CTID 118 on page 107)

**Marius Placzek**, Tim Friede

*Blinded sample size recalculation in adaptive enrichment designs*

9:40am – 10:00am (CTID 157 on page 129)

**Stephen Schüürhuis**, Kevin Kunzmann, Cornelia Ursula Kunz

*Alternative approaches to Delayed Response Group Sequential Design*

10:00am – 10:20am (CTID 190 on page 153)

**Maximilian Pilz**, Meinhard Kieser

*Optimality of the inverse normal combination test for two-stage group-sequential designs with early stopping*

10:20am – 10:40am (CTID 156 on page 129)

## Network Analysis

Chair(s): Göran Kauermann, Steffen Nestler, Room: HSW30

**Carter Tribley Butts**

*Parametric Network Models for Sets of Relations*

9:00am – 9:40am (CTID 37 on page 57)

**Cornelius Fritz**, Marius Mehrl, Paul W. Thurner, Göran Kauermann

*All that Glitters is not Gold: Relational Events Models with Spurious Events*

9:40am – 10:00am (CTID 66 on page 76)

**Robert Wilhelm Krause**, Mark Huisman

*Estimation of ERGMs under Missing Attribute Data*

10:00am – 10:20am (CTID 115 on page 105)

**Markus Schepers**, Jochem König, Konstantin Strauch

*Modelling of infectious disease spread with spatio-temporal networks*

10:20am – 10:40am (CTID 182 on page 148)

## Statistics of High Dimensional Data I

Chair(s): Nestor Parolya, Room: HSN61

### **Holger Dette**

*Testing relevant hypotheses for functional data*

9:00am – 9:40am (CTID 47 on page 63)

### **Fabian Mies**, Ansgar Steland

*Sequential Gaussian approximation for nonstationary time series in high dimensions*

9:40am – 10:00am (CTID 143 on page 121)

### **Stanislav Anatolyev**, Mikkel Mikkel Soelvsten

*Testing many restrictions under heteroskedasticity*

10:00am – 10:20am (CTID 2 on page 35)

### Martin Spindler, Philipp Bach, Sven Klaassen, **Jannis Kück**

*Uniform Inference in High-Dimensional Generalized Additive Models*

10:20am – 10:40am (CTID 201 on page 160)

## Statistical Literacy and Statistical Education I

Chair(s): Rolf Biehler, Room: HSN43

### **Mine Çetinkaya-Rundel**, Johanna Hardin, Benjamin Baumer, Amelia McNamara, Nicholas Horton, Colin Rundel

*An educator's perspective of the tidyverse*

9:00am – 9:40am (CTID 42 on page 60)

### **Maximilian Michael Mandl**, Roman Hornung, Christina Nießl, Theresa Ullmann, Anne-Laure Boulesteix

*A didactic experiment on fishing expeditions*

9:40am – 10:00am (CTID 133 on page 116)

### **Henrike Weinert**, Katja Ickstadt, Henrik Müller

*Data Competence Network – Data Literacy Education an der Technischen Universität Dortmund*

10:00am – 10:20am (CTID 227 on page 176)

### **Joachim Engel**, Laura Martignon

*Data Science for informed citizens: On synergies between Digital Literacy and Civic Statistics*

10:20am – 10:40am (CTID 56 on page 69)

## Survey Methodology I

Chair(s): Heinz Leitgöb, Carina Cornesse, Room: HSN55

**Annette Jäckle**

*Asking respondents to do more than answer survey questions*

9:00am – 9:40am (CTID 93 on page 92)

**Florian Berens, Sebastian Hobert**

*Influence of the Design of Open-Ended Survey Questions Using Conversational Agents or Voice-Based Input on the Responses*

9:40am – 10:00am (CTID 18 on page 45)

**Henning Silber, Barbara Felderer, Carina Cornesse**

*When and Why Do Respondents Consent to Passive Data Collection – Evidence from Mouse Clicks and GPS Data*

10:00am – 10:20am (CTID 195 on page 156)

**Zaza Zindel, Simon Kühne**

*Opportunities, Challenges, and Limitations of Social Media Recruitment for Rare and Hard-to-Reach Populations*

10:20am – 10:40am (CTID 239 on page 183)

**Tuesday, March 29, 11:10 am – 12:35 pm**

**Plenary I & Opening**

Chair(s): Antonia Zapf, Tim Friede, Room: HSN55

**Miguel Hernan**

*Because there is no other way: Estimating vaccine effectiveness using observational data*

(CTID 81 on page 84)

**Tuesday, March 29, 1:30 pm – 2:50 pm**

**Bioinformatics and Systems Biology I**

Chair(s): Tim Beißbarth, Anne-Laure Boulesteix, Room: HSW30

**Mark Robinson**

*Adventures in benchmarkizing computational biology*

1:30pm – 2:10pm (CTID 170 on page 140)

**Clemens Kreutz**

*A powerful curve fitting model for approximation of the transient differential equations dynamics*

2:10pm – 2:30pm (CTID 117 on page 106)

**Daniel Fridljand**

*Better multiple Testing: Using multivariate co-data for hypotheses*

2:30pm – 2:50pm (CTID 65 on page 75)

## Design of Experiments and Clinical Trials II

Chair(s): Kirsten Schorning, Geraldine Rauch, Room: HSN30

**Frank Miller**, Renata Eirini Tsirpitz

*Optimal dose-finding for efficacy-safety-models of Emax-type*

1:30pm – 1:50pm (CTID 145 on page 122)

**Fritjof Freise**, Heinz Holling, Rainer Schwabe

*On D-Optimal designs for repeated item response testing*

1:50pm – 2:10pm (CTID 64 on page 74)

**Leonie Schürmeyer**, Kirsten Schorning, Jörg Rahnenführer

*Comparison of Different Designs for Dose-Response Gene Expression Data*

2:10pm – 2:30pm (CTID 188 on page 152)

**Parisa Parsamaram**, Rainer Schwabe, Heinz Holling

*Design and Analysis in a non-linear longitudinal Poisson regression model*

2:30pm – 2:50pm (CTID 153 on page 127)

## Statistics of High Dimensional Data II

Chair(s): Jörg Rahnenführer, Room: HSN61

**Fernando Castro-Prado**, Dominic Edelmann, Jelle J Goeman

*A kernel and distance-covariance perspective on the genomics of quantitative traits*

1:30pm – 1:50pm (CTID 41 on page 59)

**Franziska Kappenberg**, Wiebke Albrecht, Jan G. Hengstler, Jörg Rahnenführer

*Prediction of hepatotoxicity based on gene expression data*

1:50pm – 2:10pm (CTID 99 on page 96)

**Hannah Klinkhammer**, Christian Staerk, Carlo Maj, Peter Krawitz, Andreas Mayr

*Component-wise L2-boosting for polygenic risk scores based on large cohort data*

2:10pm – 2:30pm (CTID 107 on page 100)

**Shuo Wang**, Edwin Kipruto, Willi Sauerbrei

*Using methods to identify influential points in high-dimensional data*

2:30pm – 2:50pm (CTID 222 on page 173)

## Statistical Literacy and Statistical Education II

Chair(s): Rolf Biehler, Room: HSN43

**Yannik Fleischer**, Rolf Biehler, Susanne Podworny

*Teaching and learning machine learning using educationally designed Jupyter Notebooks*

1:30pm – 1:50pm (CTID 62 on page 73)

**Angelina Hofacker**, Markus Zwick

*The Covid-19 pandemic as a driver of change in official statistics: New roles of the Federal Statistical Office illustrated by the Covid-19 data hub*

1:50pm – 2:10pm (CTID 85 on page 87)

Nicole Steib, **Karin Binder**, Büchter Theresa

*TrainBayes - A training study for medical and law students to improve Bayesian reasoning*

2:10pm – 2:30pm (CTID 206 on page 163)

**Florian Berens**, Sebastian Hobert

*Why Are the Motivated Successful in Our Classes: A Learning Analytics Study on the Effects of Attitudes Toward Statistics on Learning Behavior*

2:30pm – 2:50pm (CTID 19 on page 46)

## Time Series Analysis I

Chair(s): Dominik Wied, Room: HSN55

**Piotr Fryzlewicz**

*Narrowest Significance Pursuit: inference for multiple change-points in linear models*

1:30pm – 2:10pm (CTID 67 on page 76)

**Marvin Borsch**, Dominik Wied, Alexander Mayer

*Consistent Estimation of Multiple Breakpoints in Dependence Measures*

2:10pm – 2:30pm (CTID 28 on page 52)

Claudia Kirch, **Philipp Klein**, Marco Meyer

*Anomaly detection based on MOSUM statistics in large image data*

2:30pm – 2:50pm (CTID 103 on page 98)

**Tuesday, March 29, 3:20 pm – 4:40 pm**

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## Bioinformatics and Systems Biology II

Chair(s): Tim Beißbarth, Anne-Laure Boulesteix, Room: HSW30

**Martin Treppner**, Harald Binder

*scVIDE: Single Cell Variational Inference for Designing Experiments*

3:20pm – 3:40pm (CTID 212 on page 166)

**Johannes Ostner**, Salomé Carcy, Christian L. Müller

*Bayesian tree-aggregated analysis of compositional amplicon and single-cell data*

3:40pm – 4:00pm (CTID 150 on page 125)

**Maren Hackenberg**, Harald Binder

*Combining deep learning and modeling for time-series single-cell RNA-sequencing data*

4:00pm – 4:20pm (CTID 73 on page 79)

**Chiara Balestra**, Carlo Maj, Emmanuel Müller, Andreas Mayr

*A game-theoretic approach for unsupervised ranking and selection of pathways in gene sets*

4:20pm – 4:40pm (CTID 9 on page 39)

## Official and Survey Statistics I

Chair(s): Hanna Brenzel, Ralf Münnich, Room: HSN43

### **Danny Pfeffermann**

*Accounting for mode effects and proxy surveys in survey sampling inference with nonignorable nonresponse*

3:20pm – 4:00pm (CTID 154 on page 127)

### **Jan Pablo Burgard**

*Estimation of domain specific consumer baskets in Germany*

4:00pm – 4:20pm (CTID 35 on page 56)

### **Patrick Krennmair, Nora Würz, Timo Schmid**

*Analysing Opportunity Cost of Care Work using Mixed Effects Random Forests under Aggregated Census Data*

4:20pm – 4:40pm (CTID 116 on page 106)

## Statistics in Agriculture and Ecology, Environmental Statistics I

Chair(s): Alessandro Fassò, Karin Hartung, Room: HSN30

### **Kelly McConville**

*Estimating land use and land cover change: An exploration of change measures, estimation tools, and data sources for change detection*

3:20pm – 4:00pm (CTID 138 on page 119)

### **Patricia Szokol, Sándor Baran, Marianna Szabó**

*Truncated generalized extreme value distribution based EMOS model for calibration of wind speed ensemble forecasts*

4:00pm – 4:20pm (CTID 210 on page 165)

### **Mária Lakatos, Sándor Baran**

*Restoration of Temporal Dependence in Statistical Post-processing of Ensemble Weather Forecasts*

4:20pm – 4:40pm (CTID 121 on page 109)

## Statistics in Finance I

Chair(s): Roxana Halbleib, Lars Winkelmann, Room: HSN61

### **Roberto Renò**

*Zeros*

3:20pm - 4:00pm (CTID 166 on page 138)

### **Anine E. Bolko, Kim Christensen, Mikko S. Pakkanen, Bezirgen Veliyev**

*Roughness in spot variance? A GMM approach for estimation of fractional log-normal stochastic volatility models using realized measures*

4:00pm - 4:20pm (CTID 27 on page 51)

### **Markus Bibinger**

*Inference on jumps in high-frequency order-price models with one-sided noise*

4:20pm - 4:40pm (CTID 20 on page 47)

## Time Series Analysis II

Chair(s): Christian Weiß, Room: HSN55

**Vivien Less**, Philipp Sibbertsen

*A Multivariate Perturbation Robust Test Against Spurious Long Memory*

3:20pm – 3:40pm (CTID 125 on page 112)

Simon Wingert, **Mwasi Paza Mboya**, Philipp Sibbertsen

*Distinguishing between breaks in the mean and breaks in persistence under long memory*

3:40pm – 4:00pm (CTID 232 on page 179)

Malte Knüppel, Fabian Krüger, **Marc-Oliver Pohle**

*Score-based calibration testing for multivariate forecast distributions*

4:00pm – 4:20pm (CTID 110 on page 102)

**Rouven Michels**, Roland Langrock

*Using tensor product B-splines for nonparametric inference in multivariate hidden Markov models*

4:20pm – 4:40pm (CTID 142 on page 121)

Tuesday, March 29, 5:00 pm – 6:20 pm

## Official and Survey Statistics II

Chair(s): Hanna Brenzel, Ralf Münnich, oom: HSN55

**Ulrich Rendtel**, Marcus Gross, Timo Schmid, Kerstin Erfurth

*Kernel density smoothing of composite spatial data on administrative area level: An application to incidence maps of COVID19 infections in Germany*

5:00pm – 5:20pm (CTID 165 on page 138)

**Sandra Hadam**

*Experimentelle georeferenzierte Bevölkerungszahl auf Basis der Bevölkerungsfortschreibung und Mobilfunkdaten*

5:20pm – 5:40pm (CTID 74 on page 80)

**Shari Stehrenberg**, Alexandra Ils

*Trusted Smart Surveys: Solutions for the European Statistical System - Objectives and Main Challenges*

5:40pm – 6:00pm (CTID 205 on page 162)

**Jannik Schaller**

*Data Fusion in the Context of Microsimulation: Combining Semi-parametric Methods with Statistical Learning Approaches*

6:00pm – 6:20pm (CTID 179 on page 146)

## Statistics in Agriculture and Ecology, Environmental Statistics II

Chair(s): Alessandro Fassò, Karin Hartung, Room: HSN30



**Ágnes Baran**, Sándor Baran

*Calibration of wind speed ensemble forecasts for power generation*

5:00pm – 5:20pm (CTID 10 on page 40)

**Dany Djeudeu**, Michael Schweitzer, Susanne Moebus, Katja Ickstadt

*Dynamic of the urban acoustic environment during COVID-19 Lockdown in Urban Ruhr Area, Germany*

5:20pm – 5:40pm (CTID 51 on page 66)

**Marianna Szabó**, Sándor Baran

*Parametric post-processing of dual-resolution precipitation ensemble forecasts*

5:40pm – 6:00pm (CTID 209 on page 164)

**Paolo Maranzano**, Philipp Otto, Alessandro Fassó

*Penalized likelihood adaptive-LASSO algorithm for feature selection in functional HDGM*

6:00pm – 6:20pm (CTID 134 on page 117)

## Statistics in Finance II

Chair(s): Roxana Halbleib, Lars Winkelmann, Room: HSN61

**Tobias Fissler**, Marc-Oliver Pohle

*Generalized Correlation Measures*

5:00pm – 5:20pm (CTID 61 on page 72)

**Alexander Mayer**, Dominik Wied

*Estimation and Inference in Factor Copula Models with Exogenous Covariates*

5:20pm – 5:40pm (CTID 137 on page 118)

**Timo Dimitriadis**, Yannick Hoga

*Co-Quantile Regression*

5:40pm – 6:00pm (CTID 49 on page 64)

**Ekaterina Kazak**, Roxana Halbleib, Winfried Pohlmeier

*Bagged Value-at-Risk Forecast Combination*

6:00pm – 6:20pm (CTID 101 on page 97)

## Statistics in Science, Technology and Industry + Digital and

### Sensor Data

Chair(s): Rüdiger Pryss, Sonja Kuhnt, Room: HSW30

**Susan A. Murphy**

*Assessing Personalization in Digital Health*

5:00pm – 5:40pm (CTID 147 on page 123)

Bradley Lubich, **Daniel R. Jeske**, Weixin Yao

*Statistical Inference for Method of Moments Estimators of a Semi-Supervised Two-Component Mixture Model*

5:40pm – 6:20pm (CTID 129 on page 114)

## Time Series Analysis III

Chair(s): Christian Weiß, Room: HSN55

### **Guy-Niklas Brunotte**

*Dependent Wild Bootstrap based Test for Independence under Local Stationarity*  
5:00pm – 5:20pm (CTID 32 on page 54)

### **Carina Beering**

*A Test of Independence for Locally Stationary Processes Using a Weighted Characteristic Function-based Distance*  
5:20pm – 5:40pm (CTID 15 on page 43)

**Maxime Faymonville**, Carsten Jentsch, Christian Weiß, Boris Aleksandrov  
*Penalized estimation of INAR models*

5:40pm – 6:00pm (CTID 58 on page 70)

**Anne Leucht**, Efsthathios Paparoditis, Daniel Rademacher, Theofanis Sapatinas  
*Testing equality of spectral density operators for functional linear processes*  
6:00pm – 6:20pm (CTID 126 on page 112)

Wednesday, March 30, 9:00 am – 10:40 am

## Bayesian Statistics I

Chair(s): Thomas Kneib, Room: HSN43

### **Andrea Riebler**

*Prior elicitation for variance parameters in Bayesian hierarchical models*  
9:00am – 9:40am (CTID 168 on page 139)

**Boyao Zhang**, Colin Griesbach, Elisabeth Bergherr

*Bayesian Boosting for Simultaneous Estimation and Selection of Fixed and Random Effects in High-Dimensional Mixed Models*  
9:40am – 10:00am (CTID 237 on page 182)

**Anja Rappl**, Sebastiaan Klokman, Manuel Carlan, Thomas Kneib, Elisabeth Bergherr

*Bayesian Variable and Effect Selection for Quantile Regression*  
10:00am – 10:20am (CTID 161 on page 134)

**Sophie Tchanyou Ganme**, Katja Ickstadt

*A Bayesian Inference for Intensity Based Load-Sharing Models with Damage Accumulation*  
10:20am – 10:40am (CTID 211 on page 166)

## Clustering and Classification

Chair(s): Christian Hennig, Bettina Grün, Room: HSN43

### **Iven Van Mechelen**

*Benchmarking in cluster analysis: Preview of a white paper*

9:00am – 9:40am (CTID 218 on page 170)

**Christian Hennig**

*An empirical comparison and characterisation of nine popular clustering methods*

9:40am – 10:00am (CTID 79 on page 83)

**Theresa Ullmann**, Anna Beer, Maximilian Hünemörder, Thomas Seidl, Anne-Laure Boulesteix

*Over-optimistic evaluation and reporting of novel cluster algorithms: An illustrative study*

10:00am – 10:20am (CTID 215 on page 168)

**Amanda Fernández-Fontelo**, Felix Henninger, Pascal J. Kieslich, Frauke Kreuter, Sonja Greven

*A new ensemble model for multivariate functional data classification with an application to survey research*

10:20am – 10:40am (CTID 60 on page 72)

## Statistics in Behavioral and Educational Sciences

Chair(s): Philipp Doebler, Stefan Krauss, Room: HSW30

**Sven Hilbert**

*Specifics of analyzing educational data*

9:00am – 9:40am (CTID 84 on page 86)

**Annette Möller**, Ann Cathrice George, Jürgen Groß

*Predicting school transition rates in Austria with classification trees*

9:40am – 10:00am (CTID 146 on page 123)

**Felix Zimmer**, Rudolf Debelak

*Simulation-based Design Optimization for Statistical Power: Utilizing Machine Learning*

10:00am – 10:20am (CTID 238 on page 183)

**Marie Beisemann**, Philipp Doebler

*Understanding Ability Differences Measured with Count Items and their Reliability: The Distributional Regression Test Model and the Count Latent Regression Model*

10:20am – 10:40am (CTID 17 on page 45)

## Survey Methodology II

Chair(s): Heinz Leitgöb, Carina Cornesse, Room: HSN61

**Peter Selb**, Sina Chen

*Can bias proxies predict polling errors?*

9:00am – 9:20am (CTID 193 on page 155)

**Matthias Sand**, Christian Bruch, Barbara Felderer, Ines Schaurer, Jan-Philipp Kolb, Kai Weyandt

*Design weights in panel surveys with multiple refreshment samples. A general discussion with an application to the GESIS panel.*

9:20am – 9:40am (CTID 176 on page 144)

**Barbara Felderer**, Jannis Kück, Martin Spindler

*Using Double Machine Learning to Understand Nonresponse in the Recruitment of a Mixed-mode Online Panel*

9:40am – 10:00am (CTID 59 on page 71)

**Julian B. Axenfeld**, Christian Bruch, Christof Wolf

*General-purpose imputation of planned missing data in social surveys: different strategies and their effect on correlations*

10:00am – 10:20am (CTID 6 on page 37)

Julian Schüssler, **Peter Selb**

*Graphical causal models for survey inference*

10:20am – 10:40am (CTID 189 on page 153)

## Wednesday, March 30, 11:10 am – 12:35 pm

### Plenary II & DAGStat Medals

Chair(s): Tim Friede, Room: HSN55

**Tamara Broderick**

*An Automatic Finite-Sample Robustness Metric: Can Dropping a Little Data Change Conclusions?*

(CTID 31 on page 54)

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

### Young Statistician Session – Talks

Chair(s): Stefanie Peschel, Annika Möhl Room: HSW40

**Kristin Blesch**, David S. Watson, Marvin N. Wright

*Conditional Feature Importance for Mixed Data*

1:20pm – 1:40pm (CTID 24 on page 49)

**Michael Lau**, Claudia Wigmann, Sara Kress, Tamara Schikowski, Holger Schwen-der

*Evaluation of tree-based statistical learning methods for constructing genetic risk scores*

1:40pm – 2:00pm (CTID 124 on page 111)

**Maximilian Kertel**, Markus Pauly

*Learning the Joint Distribution with Missing Data under the Gaussian Copula Model*

2:00pm – 2:20pm (CTID 102 on page 97)

**Julian Martin Rodemann**

*Prior-mean-RObust Bayesian Optimization (PROBO)*

2:20pm – 2:40pm (CTID 171 on page 141)

**Jana Kleinemeier**, Nadja Klein

*Scalable Estimation for Structured Additive Distributional Regression Through Variational Inference*

2:40pm – 3:00pm (CTID 106 on page 100)

## **Bayesian Statistics II**

Chair(s): Katja Ickstadt, Room: HSN43

**Paul Bürkner**, Sergey Oladyshkin, Ilja Kröker, Wolfgang Nowak

*The Sparse Polynomial Chaos Expansion: A Fully Bayesian Approach with Joint Priors on the Coefficients and Global Selection of Terms*

1:30pm – 1:50pm (CTID 36 on page 56)

Oliver Grothe, **Jonas Rieger**

*Combining point forecasts to calibrated probabilistic forecasts using copulas*

1:50pm – 2:10pm (CTID 71 on page 78)

**Sonja Jäckle**, Elias Röger, Volker Dicken, Benjamin Geisler, Jakob Schumacher, Max Westphal

*Supporting COVID-19 quarantine decisions with a statistical risk assessment model*

2:10pm – 2:30pm (CTID 94 on page 92)

**Ilya Zarubin**

*Bayesian Learning in a General Class of Multivariate Nonlinear Dynamic Panel Data Models*

2:30pm – 2:50pm (CTID 236 on page 181)

## Education – Statistics in Practice I

Chair(s): Theresa Keller, Thomas Schmelter, Willi Sauerbrei, Room: HSN55

**Richard D. Keele, Gary S. Collins**

*Prognosis Research in Healthcare: initiatives to improve methodology standards*

1:30pm – 2:50pm (CTID 164 on page 136)

## Marketing and E-Commerce

Chair(s): Friederike Paetz, Daniel Guhl, Room: HSW30

**Stephan Seiler**

*The use of machine learning methods for targeted marketing*

1:30pm – 2:10pm (CTID 191 on page 154)

**Carsten Schultz, Friederike Paetz**

*Good to hear your voice! Interactions of personality traits and smart speaker brand preferences in voice commerce*

2:10pm – 2:30pm (CTID 187 on page 151)

**Tobias R. Rebholz, Marco Biella, Mandy Hütter**

*Mixed-Effects Regression Weights of Advice: Individual Differences in Judgment Formation and Sampling*

2:30pm – 2:50pm (CTID 162 on page 134)

## Robust and Nonparametric Statistics I

Chair(s): Christine Müller, Melanie Birke, Room: HSN30

**Catherine Aaron**

*Geometric inference and robustness*

1:30pm – 2:10pm (CTID 1 on page 35)

**Maximilian Wechsung, Konietschke Frank**

*Efficient multivariate inference in general factorial diagnostic studies*

2:10pm – 2:30pm (CTID 224 on page 174)

**Jan Speller, Christian Staerk, Andreas Mayr**

*Robust statistical boosting with quantile-based adaptive loss functions*

2:30pm – 2:50pm (CTID 199 on page 158)

## Statistics in the Pharmaceutical and Medical Device Industry

Chair(s): Werner Brannath, Room: HSN61

**James Wason**

*Innovative design and analysis approaches for master protocols*

1:30pm – 2:10pm (CTID 223 on page 174)

**Maria Stark, Antonia Zapf**

*Blinded sample size re-estimation in a paired diagnostic study*  
2:10pm – 2:30pm (CTID 203 on page 161)

**Reinhard Vonthein**, Christina Hölsken  
*Power of Logrank and RMST tests for non-constant hazard ratio*  
2:30pm – 2:50pm (CTID 221 on page 172)

## Wednesday, March 30, 3:20 am – 4:40 pm

### **Advanced Regression Modelling I**

Chair(s): Andreas Groll, Andreas Mayr, Room: HSN61

**Brian D. Marx, Paul H. C. Eilers**  
*Variations on Varying-Coefficient Signal Regression*  
3:20pm – 4:00pm (CTID 135 on page 117)

**Thomas Kneib**, Alexander Silbersdorff, Benjamin Säfken  
*Rage Against the Mean - A Review of Distributional Regression Approaches*  
4:00pm – 4:20pm (CTID 108 on page 101)

Almond Stöcker, **Sonja Greven**  
*Functional additive models on manifolds of planar shapes and forms*  
4:20pm – 4:40pm (CTID 207 on page 163)

### **Computational Statistics and Statistical Software I**

Chair(s): Gero Szepannek, Room: HSW30

**Julie Josse**  
*Supervised learning with missing values*  
3:20pm – 4:00pm (CTID 98 on page 95)

**Alexander Bauer**, Maximilian Weigert, Hawre Jalal  
*APCtools: An R Package for Descriptive and Model-based Age-Period-Cohort Analysis*  
4:00pm – 4:20pm (CTID 11 on page 40)

**Sheila Görz**, Alexander Dürre, Herold Dehling, Roland Fried  
*R package 'robcp' for robust detection of change points*  
4:20pm – 4:40pm (CTID 69 on page 77)

### **Education – Statistics in Practice II**

Chair(s): Theresa Keller, Thomas Schmelter, Willi Sauerbrei, Room: HSN55

**Richard D. Keele, Gary S. Collins**  
*Prognosis Research in Healthcare: initiatives to improve methodology standards*  
3:20pm – 4:40pm (CTID 164 on page 136)

## Robust and Nonparametric Statistics II

Chair(s): Christine Müller, Melanie Birke, Room: HSN30

**Leonie Selk**, Jan Gertheiss

*Nonparametric Regression and Classification with Functional, Categorical, and Mixed Covariates*

3:20pm – 3:40pm (CTID 194 on page 155)

**Lea Wegner**, Martin Wendler

*Robust Detection for Change-Points in Functional Time Series based on Spatial Signs and Bootstrap*

3:40pm – 4:00pm (CTID 225 on page 175)

**Martin Wendler**, Herold Dehling, Kata Vuk

*Weighted Change-Point Tests based on 2-Sample-U-Statistics*

4:00pm – 4:20pm (CTID 229 on page 177)

**Eftychia Solea**, Kuang-Yao Lee, Bing Li

*High-dimensional nonparametric functional graphical models via the additive partial correlation operator*

4:20pm – 4:40pm (CTID 198 on page 158)

## Survival and Event History Analysis I

Chair(s): Jan Feifel, Matthias Schmid, Room: HSN61

**Maja Pohar Perme**

*Pseudo-observations in survival analysis*

3:20pm – 4:00pm (CTID 158 on page 130)

**Dina Voeltz**, Amelie Forkel, Anke Schwandt, Oliver Kuss, Annika Hoyer

*A parametric additive hazard model for time-to-event analysis*

4:00pm – 4:20pm (CTID 219 on page 171)

**Alina Schenk**, Matthias Schmid

*A pseudo-value approach for building regression models with time-dependent covariate effects*

4:20pm – 4:40pm (CTID 181 on page 147)

**Wednesday, March 30, 5:00 pm – 6:20 pm**

## IBS-DR Price Session

Chair(s): Annette Kopp-Schneider, Room: HSN55

**Moritz Fabian Danzer**, Tobias Terzer, Frank Berthold, Andreas Faldum, Rene Schmidt

*Adaptive group sequential designs for single-arm phase II studies with multiple time-to-event outcomes*

5:00pm – 5:15pm (CTID 44 on page 61)



**Nadja Klein**, Michael Stanley Smith

*Bayesian variable selection for non-Gaussian responses: a marginally calibrated copula approach*

5:15pm – 5:30pm (CTID 105 on page 99)

**Saide Atmaca**

*Evaluation of Misspecified Linear Regression Models for Subgroup Analysis*

5:30pm – 5:45pm (CTID 5 on page 36)

**Eric Samuel Knop**

*Robust confidence intervals for mixed-effects meta-regression with interaction*

5:45pm – 6:00pm (CTID 109 on page 102)

**Sabrina Schmitt**, Ann-Kathrin Ozga

*Time-to-event analysis with competing risks considering cluster structures - Comparison of methods based on a simulation study\**

6:00pm – 6:15pm (CTID 185 on page 150)

## Advanced Regression Modelling II

Chair(s): Andreas Mayr, Room: HSN43

**Hendrik van der Wurp**, Andreas Groll

*Introducing Regularisation to Generalised Joint Regression Modelling with an Application to Football*

5:00pm – 5:20pm (CTID 217 on page 170)

**Colin Griesbach**, Andreas Mayr, Elisabeth Bergherr

*Variable Selection and Allocation in Joint Models via Gradient Boosting Techniques*

5:20pm – 5:40pm (CTID 70 on page 78)

**Alexander Volkman**, Nikolaus Umlauf, Sonja Greven

*Flexible joint models for multivariate longitudinal and time-to-event data using a functional principal components representation of shared random effects*

5:40pm – 6:00pm (CTID 220 on page 172)

**Alena Skolkova**

*Ridge Model Averaging*

6:00pm – 6:20pm (CTID 196 on page 157)

## Computational Statistics and Statistical Software II

Chair(s): Roland Fried, Room: HSW30

**Niklas Koenen**, Marvin N. Wright

*Interpreting Deep Neural Networks with the R Package *innsight**

5:00pm – 5:20pm (CTID 112 on page 103)

**Michel Lang**, Raphael Sonabend, Franz Kiraly, Andreas Bender, Bernd Bischl

*mlr3proba: A unified interface for machine learning with survival tasks*

5:20pm – 5:40pm (CTID 122 on page 110)

**Marc Becker**, Michel Lang, Bernd Bischl

*mlr3tuning: A general framework for ML hyperparameter tuning*

5:40pm – 6:00pm (CTID 13 on page 42)

**Philipp Bach**, Victor Chernozhukov, Malte Kurz, Martin Spindler

*DoubleML - An Object-Oriented Implementation of Double Machine Learning in R*

6:00pm – 6:20pm (CTID 8 on page 38)

## Robust and Nonparametric Statistics III

Chair(s): Christine Müller, Melanie Birke, Room: HSN30

**Felix Gnettner**, Claudia Kirch, Alicia Nieto-Reyes

*Depth-based two-sample testing*

5:00pm – 5:20pm (CTID 68 on page 77)

**Hannah Blocher**, Georg Schollmeyer, Christoph Jansen

*Statistical Models for Partial Orders based on Data Depth and Formal Concept Analysis*

5:20pm – 5:40pm (CTID 25 on page 50)

**Georg Schollmeyer**

*On the uniform control of the Vapnik-Chervonenkis dimension in subgroup discovery using formal concept analysis*

5:40pm – 6:00pm (CTID 186 on page 151)

**Kerstin Rubarth**, Frank Konietzschke

*Estimation and Testing of Wilcoxon-Mann-Whitney Effects in factorial clustered data designs*

6:00pm – 6:20pm (CTID 174 on page 143)

## Survival and Event History Analysis II

Chair(s): Moritz Berger, Room: HSN61

**Sandra Frank**, Sabrina Dietz, Arthur Allignol, Jan Beyersmann

*A stabilised Aalen-Johansen estimator with internal left-truncation and overly small risks sets*

5:00pm – 5:20pm (CTID 63 on page 74)

**Ina Dormuth**, Markus Pauly, Geraldine Rauch, Carolin Herrmann

*Addressing hazards in application – a sample size calculation approach for the average hazard ratio*

5:20pm – 5:40pm (CTID 53 on page 67)

**Lars Beckmann**, Anke Schulz, Guido Skipka

*Firth correction in Cox proportional hazard analysis in the presence of zero events*

5:40pm – 6:00pm (CTID 14 on page 42)

**Nikolai Spuck**, Matthias Schmid, Moritz Berger

*Flexible tree-structured regression models for discrete event times*

6:00pm – 6:20pm (CTID 202 on page 160)

## Artificial Intelligence and Machine Learning I

Chair(s): Friedhelm Schwenker, Room: HSN30

### **Frank Köster**

*AI enables Innovation – Safe and Secure AI is a must for many AI-based Applications*

9:00am – 9:40am (CTID 113 on page 104)

**Maximilian Weigert**, Magdalena Mittermeier, David Rügamer, Ralf Ludwig, Helmut Küchenhoff

*Classification of atmospheric circulation patterns using a smoothed deep learning approach*

9:40am – 10:00am (CTID 226 on page 175)

### **Anna Malinovskaya**

*Statistical monitoring of deep learning models*

10:00am – 10:20am (CTID 132 on page 115)

### **Vi Thanh Pham**

*Statistical Learning of ECG Based on Functional Neural Networks*

10:20am – 10:40am (CTID 155 on page 128)

## Meta-Analysis I

Chair(s): Annika Hoyer, Room: HSW30

### **Dan Jackson**, Robbie C. M. van Aert

*Multi-step estimators of between-study variances and covariances and their relationship with the Paule-Mandel estimator*

9:00am – 9:40am (CTID 95 on page 93)

### **Cynthia Huber**, Norbert Benda, Tim Friede

*Subgroup identification in individual participant data meta-analysis using model-based recursive partitioning*

9:40am – 10:00am (CTID 91 on page 91)

### **Heinz Holling**, Katrin Jansen, Dankmar Böhning

*Estimation of effect heterogeneity in rare events meta-analysis*

10:00am – 10:20am (CTID 87 on page 88)

### Justyna Wünnel, **Peter Schlattmann**

*Meta-analysis of mean values with unreported variances: estimation bias due to variance heteroscedasticity when common joint variance is assumed*

10:20am – 10:40am (CTID 235 on page 181)

## Statistical Methods in Epidemiology I

Chair(s): Irene Schmidtman, Ralph Brinks, Room: HSW30

**Helene Jacqmin-Gadda**, Reza Hashemi

*Development of prediction tools for health events from multiple longitudinal predictors*

9:00am – 9:40am (CTID 96 on page 94)

Nadine Binder, **Anika Schlosser**, Martin Schumacher

*Reevaluating dementia incidence trends: The critical role of adequate design and methodology*

9:40am – 10:00am (CTID 22 on page 48)

**Sabrina Tulka**, Annika Hoyer, Ralph Brinks

*Statistical properties of a prevalence estimator for chronic diseases based on a differential equation: Simulation study in the illness-death-model*

10:00am – 10:20am (CTID 214 on page 167)

**Anastasiia Holovchak**, Ruben Wisskott, Ralph Brinks, Annika Hoyer

*Weighted Generalized Estimating Equations for Longitudinal Binary Response: Prevalence Estimation of Health Limitations in the SHARE Study*

10:20am – 10:40am (CTID 88 on page 89)

## **STRATOS Session**

Chair(s): Heiko Becher, Willi Sauerbrei, Room: HSN55

**James Carpenter**

*Handling missing data in the analysis: practical guidance for structuring the analysis, choosing the tools, and reporting the results*

9:00am – 9:25am (CTID 39 on page 58)

**Veronika Deffner**

*Measurement error and misclassification of covariates: Should we worry?*

9:25am – 9:50am (CTID 45 on page 62)

**Georg Heinze**

*Selection of variables and functional forms for multivariable models*

9:50am – 10:15am (CTID 78 on page 83)

**Willi Sauerbrei, Heiko Becher**

*STRATOS – aims, tasks, support of the initiative*

10:15am – 10:40am (CTID 177 on page 145)

## **Visualisation and Exploratory Data Analysis**

Chair(s): Adalbert F.X. Wilhelm, Helmut Küchenhoff, Room: HSN43

**Catherine Hurley**

*Investigating model adequacy, predictor effects and higher-order interactions for machine-learning models*

9:00am – 9:40am (CTID 92 on page 91)

**Moritz Hess**, Dominik Scheuer, Harald Binder

*A pattern extraction app for biomedical data*

9:40am – 10:00am (CTID 82 on page 85)

**Linda Krause**, Caroline Seifert, Antonia Zapf  
*What implications do analysis choices have on study results?*  
10:00am – 10:20am (CTID 114 on page 105)

**Moritz N. Lang**, Reto Stauffer, Achim Zeileis  
*Visualizing Goodness of Fit of Probabilistic Regression Models*  
10:20am – 10:40am (CTID 123 on page 110)

## Thursday, March 31, 11:10 am – 12:30 am

### Artificial Intelligence and Machine Learning II

Chair(s): Sarah Friedrich, Room: HSN30

**Philip Buczak**, Markus Pauly  
*Analyzing the Influence of Missing Data Imputation on the Predictive Performance of Classifiers*  
11:10am – 11:30am (CTID 113 on page 55)

**Björn-Hergen Laabs**, Ana Westenberger, Inke R. König  
*Construction of artificial most representative trees by minimizing tree-based distance measures*  
11:30am – 11:50am (CTID 226 on page 108)

**Lena Schmid**, Alexander Gerharz, Andreas Groll, Markus Pauly  
*Machine Learning for Multi-Output Regression: Comparing multivariate approaches with separate univariate ones*  
11:50am – 12:10pm (CTID 183 on page 149)

**Max Westphal**, Rieke Alpers  
*The role of estimands in machine learning algorithm evaluation*  
12:10pm – 12:30pm (CTID 230 on page 178)

### Advanced Regression Modelling III

Chair(s): Andreas Groll, Room: HSN55

**Nicolai Hans**, Nadja Klein, Andreas Mayr  
*Boosting copulas with continuous margins*  
11:10am – 11:30am (CTID 75 on page 81)

**Annika Strömer**, Nadja Klein, Christian Staerk, Andreas Mayr  
*Boosting Bivariate Structured Additive Distributional Regression Models*  
11:30am – 11:50am (CTID 208 on page 164)

**Jonas Meier**  
*Multivariate Distribution Regression*  
11:50am – 12:10pm (CTID 139 on page 119)

**Charlotte C. Behning**, Monika Fleckenstein, Maximilian Pfau, Christine Adrion, Lukas Goerdt, Moritz Lindner, Steffen Schmitz-Valckenberg, Frank G. Holz, Matthias C. Schmid

*Modeling trajectories of slowly progressing diseases: A mixed-model-based algorithm for variable transformation, prediction and age-of-onset estimation*  
12:10pm – 12:30pm (CTID 16 on page 44)

## Meta-Analysis II

Chair(s): Heinz Holling, Room: HSW30

**Theodoros Papakonstantinou**, Gerta Rücker, Guido Schwarzer, Daniela Zöller, Adriani Nikolakopoulou

*A mechanical analogue of network meta-analysis*

11:10am – 11:30am (CTID 152 on page 126)

**Georgios Seitidis**, Stavros Nikolakopoulos, Ioannis Ntzoufras, Dimitris Mavridi  
*A stochastic search variable selection approach for identifying inconsistency in network meta-analysis*

11:30am – 11:50am (CTID 192 on page 154)

**Theodoros Evrenoglou**, Ian R. White, Sivem Afach, Dimitris Mavridis, Anna Chaimani

*Network meta-analysis of rare events using penalized likelihood regression*

11:50am – 12:10pm (CTID 57 on page 70)

**Manuel Wiesenfarth**, Jasmin Wandel

*Bayesian meta-analysis for exact and interval censored binomial outcomes*

12:10pm – 12:30pm (CTID 231 on page 178)

## Survival and Event History Analysis III

Chair(s): Jan Feifel, Matthias Schmid, Room: HSN43

**Jasmin Rühl**, Jan Beyersmann, Sarah Friedrich

*General independent censoring in event-driven trials with staggered entry*

11:10am – 11:30am (CTID 175 on page 143)

**Marc Ditzhaus**, Dennis Dobler, Jon Genuneit, Arnold Janssen, Markus Pauly  
*GFDsurv: A flexible toolbox for factorial survival designs as an alternative to Cox models*

11:30am – 11:50am (CTID 50 on page 65)

**Ghislain Sofak**, Soumya Banerjee, Thodoris Papakonstantinou, Demetris Avraam, Paul Burton, Tom R. P. Bishop, Daniela Zöller

*Implementing disclosure controls in DataSHIELD demonstrated by the dsSurvival package*

11:50am – 12:10pm (CTID 197 on page 157)

**Steffen Unkel**, Steven Abrams, Andreas Wienke, Niel Hens

*Random-effects models for quantifying heterogeneity in infectious disease transmission involving two types of contacts*

12:10pm – 12:30pm (CTID 216 on page 169)

## Statistical Methods in Epidemiology II

Chair(s): Irene Schmidtman, Ralph Brinks, Room: HSN61

**Johannes Bracher**, Daniel Wolfram, Sam Abbott, Matthias an der Heiden, Sebastian Funk, Felix Günther, Davide Hailer, Stefan Heyder, Thomas Hotz, Helmut Küchenhoff, Diella Sylqi, Jan van de Kasstele, Maximilian Weigert, Alexander Ullrich, Tilmann Gneiting, Melanie Schienle

*Collaborative real-time nowcasting of COVID-19 hospitalization incidence rates*  
11:10am – 11:30am (CTID 30 on page 53)

**Lukas Refisch**, Fabian Lorenz, Clemens Kreutz

*Data-Driven Prediction of COVID-19 Cases in Germany for Decision Making*  
11:30am – 11:50am (CTID 163 on page 135)

**Thomas Hotz**, Stefan Heyder

*Predicting COVID-19 Hospitalisation from Incidences*  
11:50am – 12:10pm (CTID 90 on page 90)

**Stefan Heyder**, Thomas Hotz, Tyll Krüger, Jan Pablo Burgard

*Regional estimates of reproduction numbers with application to COVID-19*  
12:10pm – 12:30pm (CTID 83 on page 85)

Thursday, March 31, 1:30 pm – 2:50 pm

## Advanced Regression Modelling IV

Chair(s): Andreas Groll, Andreas Mayr, Room: HSN55

**Andreas Haupt**, Øyvind Nicolay Wiborg, Nicolai Topstad Borgen

*A New Framework for Estimation of Unconditional Quantile Treatment Effects: The Residualized Quantile Regression (RQR) Model*  
1:30pm – 1:50pm (CTID 77 on page 82)

**Tim Kutzker**, Nadja Klein, Dominik Wied

*Flexible Specification Testing in Quantile Regression Models*  
1:50pm – 2:10pm (CTID 119 on page 108)

**Tobias Hepp**, Jakob Zierk, Sarem Seitz

*Distributional latent class modelling for the indirect estimation of reference distributions using mixture density networks*  
2:10pm – 2:30pm (CTID 80 on page 84)

**Fabian Otto-Sobotka**, Jessica Koschate, Tania Zieschang

*Modeling post-lockdown exercise training development during the COVID-19 pandemic in Germany using mixed distributional regression*  
2:30pm – 2:50pm (CTID 151 on page 125)

## Empirical Economics and Applied Econometrics I

Chair(s): Daniel Gutknecht, Room: HSN30

Hugo Bodory, **Martin Huber**, Lukas Laffers  
*Evaluating (weighted) dynamic treatment effects by double machine learning*  
1:30pm – 2:10pm (CTID 26 on page 51)

**Giovanni Mellace**, Roberta Di Stefano  
*The inclusive Synthetic Control Method*  
2:10pm – 2:50pm (CTID 140 on page 120)

## Mathematical Statistics I

Chair(s): Markus Pauly, Hajo Holzmann, Room: HSW30

**Sebastian Doehler**, Etienne Roquain  
*Controlling the False Discovery Exceedance for heterogeneous statistical tests*  
1:30pm – 1:50pm (CTID 52 on page 66)

**Dominik Liebl**, Matthew Reimherr  
*Fast and Fair Simultaneous Confidence Bands for Functional Parameters*  
1:50pm – 2:10pm (CTID 127 on page 113)

**Marléne Baumeister**, Marc Ditzhaus, Markus Pauly  
*Quantile-based MANOVA: A new tool for inferring multivariate data in factorial designs*  
2:10pm – 2:30pm (CTID 12 on page 41)

**Frank Röttger**, Sebastian Engelke, Piotr Zwiernik  
*Total positivity in multivariate extremes*  
2:30pm – 2:50pm (CTID 172 on page 141)

## Survival and Event History Analysis IV

Chair(s): Steffen Unkel, Room: HSN43

Nadine Binder, **Kathrin Möllenhoff**, August Sigle, Holger Dette  
*Similarity of competing risks models with constant intensities in an application to clinical healthcare pathways involving prostate cancer surgery*  
1:30pm – 1:50pm (CTID 21 on page 47)

**Angela Carollo**, Hein Putter, Paul H. C. Eilers, Jutta Gampe  
*Smooth hazards with multiple time scales*  
1:50pm – 2:10pm (CTID 38 on page 57)

**Dominic Edelmann**, Tobias Terzer, Axel Benner  
*The time to progression ratio in molecular tumor trials - a critical examination of current practice and suggestions for alternative methods*  
2:10pm – 2:30pm (CTID 55 on page 68)

**Rafael Weißbach**, Dominik Wied  
*Truncating the exponential with a uniform distribution*  
2:30pm – 2:50pm (CTID 228 on page 177)



## Statistical Methods in Epidemiology III

Chair(s): Irene Schmidtman, Ralph Brinks, Room: HSN61

### Patrick Schmidt

*Inference under Superspreading: Determinants of SARS-CoV-2 Transmission in Germany*

1:30pm – 1:50pm (CTID 184 on page 149)

**Anabelle Wong**, Sarah Kramer, Marco Piccininni, Jessica L. Rohmann, Tobias Kurth, Sylvie Escolano, Ulrike Grittner, Matthieu Domenech de Cellès

*Using LASSO regression to estimate the population-level impact of pneumococcal conjugate vaccines*

1:50pm – 2:10pm (CTID 233 on page 179)

**Roman Schefzik**, Leonie Boland, Bianka Hahn, Thomas Kirschning, Holger A. Lindner, Manfred Thiel, Verena Schneider-Lindner

*A control selection strategy for differential network testing in intensive care: Revealing diverging dynamics of organ system interactions for survivors and non-survivors*

2:10pm – 2:30pm (CTID 180 on page 147)

**Nicolas Apfel**, Xiaoran Liang

*Agglomerative Hierarchical Clustering for Selecting Valid Instrumental Variables*

2:30pm – 2:50pm (CTID 4 on page 36)

Thursday, March 31, 3:20 pm – 4:40 pm

## Data Science

Chair(s): Berthold Lausen, Bernd Bischl, Room: HSN43

### Rebecca Nugent

*Demystifying and Optimizing Data Science*

3:20pm – 4:00pm (CTID 149 on page 124)

**Nadja Klein**, Clara Hoffmann

*Marginally calibrated response distributions for end-to-end learning in autonomous driving*

4:00pm – 4:20pm (CTID 104 on page 98)

**Lucas Kock**, Nadja Klein, David J. Nott

*Variational Inference and Sparsity in High-Dimensional Deep Gaussian Mixture Models*

4:20pm – 4:40pm (CTID 111 on page 103)

## Empirical Economics and Applied Econometrics II

Chair(s): Robert Jung, Room: HSN30

**Claudia Noack**, Tomasz Olma, Christoph Rothe

*Flexible Covariate Adjustments in Regression Discontinuity Designs*

3:20pm – 3:40pm (CTID 148 on page 124)

**Mirjam Reutter**, Gregor Pfeifer, Kristina Strohmaier

*Does Smoking Affect Wages?*

3:40pm – 4:00pm (CTID 167 on page 139)

**Simone Maxand**

*A panel SVAR model for European climate policy*

4:00pm – 4:20pm (CTID 136 on page 118)

**Matei Demetrescu**, Mehdi Hosseinkouchak, Paulo Rodrigues

*Cross-Sectional Error Dependence in Panel Quantile Regressions*

4:20pm – 4:40pm (CTID 46 on page 63)

## Mathematical Statistics II

Chair(s): Markus Pauly, Hajo Holzmann, Room: HSW30

**Ismaël Castillo**

*Some theoretical properties of Bayesian Tree methods*

3:20pm – 4:00pm (CTID 40 on page 59)

**Paul Bach**, Nadja Klein

*Marginally calibrated response distributions for end-to-end learning in autonomous driving*

4:00pm – 4:20pm (CTID 7 on page 38)

**Maximilian Steffen**, Mathias Trabs

*PAC-Bayes training for sparse neural networks*

4:20pm – 4:40pm (CTID 204 on page 161)

## Text Mining and Content Analysis

Chair(s): Andreas Blätte, Tilman Becker, Room: HSN61

**Tomáš Mikolov**

*Statistical language modeling explained*

3:20pm – 4:00pm (CTID 144 on page 122)

**Jonas Rieger**, Carsten Jentsch, Jörg Rahnenführer

*Improving the reliability of LDA results using LDAPrototype as selection criterion*

4:00pm – 4:20pm (CTID 169 on page 140)

**Thursday, March 31, 5:00 pm – 6:30 pm**

## Plenary III & Poster/Talklet Prices

Chair(s): Hajo Holzmann, Room: HSN55

**Trevor John Hastie**

*Some comments on CV*

(CTID 76 on page 81)

## Friday, April 1, 9:00 am – 10:40 am

### Causal Inference

Chair(s): Uwe Siebert, Helmut Farbmacher, Room: HSN55

**Martin Spindler**, Jannis Kück, Zigan Wang, Ye Luo

*Estimation and Inference of Treatment Effects with L2-Boosting in High-Dimensional Settings*

9:00am – 9:40am (CTID 200 on page 159)

**Nicolas Apfel**, Helmut Farbmacher, Martin Huber, Henrika Langen

*Retrieving grouped LATEs via Classifier-Lasso*

9:40am – 10:00am (CTID 3 on page 35)

**Franz Leon Classe**, Christoph Kern

*Survey Scale Forests: Estimating Unconfounded Latent Variable Effects*

10:00am – 10:20am (CTID 43 on page 61)

**Vanessa Didelez**, Ronja Foraita, Janine Witte

*Causal discovery with incomplete cohort data*

10:20am – 10:40am (CTID 48 on page 64)

### IQWiG & IQTIG Session

Chair(s): Tim Friede, Room: HSN43

**Michael Höhle**, Jona Cederbaum

*Statistical Challenges in the Quality Assurance of Healthcare*

9:00am – 9:20am (CTID 86 on page 87)

Maurilio Gutzeit, **Johannes Rauh**, Jona Cederbaum

*Modelling Volume-Outcome Relationships in Health Care*

9:20am – 9:40am (CTID 72 on page 79)

**Christian Röver**, Jona Lilienthal, Sibylle Sturtz, Ralf Bender, Tim Friede

*Elicitation of empirical information on between-study heterogeneity in Bayesian meta-analysis*

9:40am – 10:00am (CTID 173 on page 142)

**Jona Lilienthal**, Sibylle Sturtz, Christian Röver, Tim Friede, Ralf Bender

*Application of a hierarchical Bayesian model to determine the empirical distribution of the heterogeneity parameter in IQWiG reports*

10:00am – 10:20am (CTID 128 on page 113)

Matthias Maiworm, **Christoph Schürmann**, Guido Skipka, Ralf Bender

*Properties of Bayesian meta-analyses in evidence syntheses of very few studies*

10:20am – 10:40am (CTID 130 on page 114)

## Latent Variable Modelling

Chair(s): Steffi Pohl, Martin Elff, Room: HSW30

### **Francis Tuerlinckx**

*Data, parameters and models: Some insights in statistical modeling*

9:00am – 9:40am (CTID 213 on page 167)

**Sina Mews**, Roland Langrock, Marius Ötting, Houda Yaqine, Jost Reinecke

*Continuous-time latent-state modelling of delinquent behaviour in adolescence and young adulthood*

9:40am – 10:00am (CTID 141 on page 120)

**Aisouda Hoshiyar**, Henk A.L. Kiers, Jan Gertheiss

*Penalized Non-Linear Principal Components Analysis for Ordinal Data*

10:00am – 10:20am (CTID 89 on page 89)

**Jonas Bjermo**, Ellinor Fackle Fornius, Frank Miller

*Optimal Item Calibration in the Context of the Swedish Scholastic Aptitude Test*

10:20am – 10:40am (CTID 23 on page 49)

## Open Topics

Chair(s): Sven Knoth, Room: HSN61

**Willi Sauerbrei**, Tim Haeussler, Marianne Huebner

*Structured reporting – low hanging fruit to improve completeness and transparency of analyses in medical and methodological research*

9:00am – 9:20am (CTID 178 on page 145)

**Jörg Rahnenführer**

*The role of modern statistical methodology in toxicological research*

9:20am – 9:40am (CTID 160 on page 133)

**Anne-Laure Boulesteix**, Sabine Hoffmann

*To adjust or not to adjust: a simple unifying criterion*

9:40am – 10:00am (CTID 29 on page 52)

**Julia Christin Duda**, Jörg Rahnenführer

*An intuitive time-dose-response model for cytotoxicity data with varying exposure times*

10:00am – 10:20am (CTID 54 on page 68)

## Spatial and Spatiotemporal Statistics

Chair(s): Philipp Otto, Room: HSN30

**Matthias Katzfuss**

*Scalable Gaussian-Process Inference Using Vecchia Approximations*

9:00am – 9:40am (CTID 100 on page 96)

Malte Jahn, **Christian Weiß**, Hee-Young Kim

*Approximately Linear INGARCH Models for Spatio-Temporal Counts*

9:40am – 10:00am (CTID 97 on page 94)

**Steffen Maletz**, Konstantinos Fokianos, Roland Fried

*On the Detection of Changes in Spatio-Temporal GLMs for Count Data*

10:00am – 10:20am (CTID 131 on page 115)

Timo Budszuhn, **Philipp Doebler**, Tobias Waldemar Meißner, Sarah Weigelt, Jona Lilienthal, Roland Fried

*Independence test for functional variables based on functional canonical correlation*

10:20am – 10:40am (CTID 34 on page 55)

**Friday, April 1, 11:10 am – 12:30 pm**

## **Plenary IV & Closing**

Chair(s): Sven Knoth, Room: HSN55

**William H. Woodall**

*The Evolution of Statistical Process Monitoring*

(CTID 234 on page 180)