

# Austrian Statistical Days Program JKU Linz | 02.-04.09.2025

**How to reach us:** From the Linz main Railway Station take tram 1 or 2 to the final stop "Universität". Then go to Keplergebäude-Hörsaaltrakt at our Campus which is adjacent to our pond. See our location map at <https://www.jku.at/en/campus/the-jku-campus/buildings/> for details.

| Tuesday     |   | 9/2/2025 |
|-------------|---|----------|
| 9:00-10:00  | <b>Registration: Keplergebäude</b>  |          |
| 10:00-10:30 | <b>Opening</b>  |          |
| 10:30-12:10 | <b>CS 1: Chair: Georg Zimmermann, HS 2 (Hörsaaltrakt)</b>   |          |
|             | <b>Müller Benjamin</b><br>University of Innsbruck<br><i>Simultaneous estimation and model choice for big discrete time-to-event data with additive predictors</i>   |          |
|             | <b>Ortega Menjivar Lena</b> , Özcelik Nur Banu, Laimighofer Johannes, Fischer Svenja, Laaha Gregor<br>BOKU Vienna<br><i>Improving rainfall distribution fits by finding rainfall event types</i>  |          |
|             | <b>Perchtold Corinna</b><br>JKU Linz<br><i>Temperature-humidity-related mortality in Austria: A spatio-temporal model with fine-grained climate and mortality data.</i>   |          |
|             | <b>Scharl-Hirsch Theresa</b><br>BOKU Vienna<br><i>Clustering in Forest Recreation Monitoring</i>  |          |
|             | <b>Svolba Gerhard</b><br>SAS<br><i>Feature Engineering in Predictive Modeling – And how do you feed your machine learning models?</i>   |          |
| 12:10-13:45 | <b>Lunch Break</b>  |          |
| 13:45-15:00 | <b>Student Thesis Awards (Förderpreisverleihung)</b>  |          |
| 15:00-15:30 | <b>Coffee Break</b>   |          |
| 15:30-17:20 | <b>IS 1 Chair: Ondřej Vencálek, HS 2 (Hörsaaltrakt)</b>   |          |
|             | <b>Dvořák Jiří</b><br>Charles University Prague, Czech Republic<br><i>Bayesian inference for point processes and random sets - inhomogeneity, anisotropy and more</i>   |          |
|             | <b>Fačevicová Kamila</b> , Hron Karel, Filzmoser Peter<br>Palacký-Universität Olmütz, Czech Republic<br><i>Correspondence Analysis within the Framework of Compositional Tables</i>   |          |
|             | <b>Fusek Michal</b> , Holešovský Jan<br>Brno University of Technology, Czech Republic<br><i>Extremal index and its estimators</i>   |          |
|             | <b>Romaňák Martin</b><br>Charles University Prague, Czech Republic<br><i>Tensor changepoint detection and eigenbootstrap</i>  |          |
| 17:30-19:00 | <b>Welcome Reception (with poster session)    Loft C+D (Uni-Center)</b>   |          |
| Posters     | <b>Catalan Jolly Mae G.</b><br>Davao Center for Health Development, Philippines<br><i>Retrospective Spatial Analysis of the COVID-19 Threat to the High-risk Population in Davao Region, Philippines from March 2020 to August 2021</i> |          |
|             | <b>Chen Haoyu</b><br>JKU Linz<br><i>Testing categorical data under overdispersion</i>   |          |
|             | <b>Fröhlich Benedikt</b><br>University of Regensburg<br><i>De-correlated Feature Importance via Local Sample Weighting in Random Forests</i>  |          |
|             | <b>Hainy Markus</b><br>JKU Linz<br><i>Practical aspects of the virtual noise convex optimum design approach for correlated responses</i>  |          |

**Kostarova Aneta**

Charles University Prague, Czech Republic  
*Specification Tests for Integer-valued Time Series*

**Pauli Simon**

JKU Linz  
*Estimating Identity by Descent and the Inbreeding Coefficient using Pase-Type Distributions*

**Stadler Alexandra**

JKU Linz  
*Green LIME: Improving AI Explainability through Design of Experiments*

**Vencálek Ondřej**

Palacky University in Olomouc, Czech Republic  
*Problem of division of the stakes from traditional and bayesian point of view*

**Zimmermann Georg**, Geroldinger Martin, Hajdari Linda, Lauth Wanda, Laimer Martin, Wally Verena, Bauer Johann W.  
 University of Salzburg

*A systematic empirical comparison of different statistical analysis approaches for a multi-aspect analysis of clinical trial data in Epidermolysis*

**Wednesday****9/3/2025**

8:40-10:00

**CS 2 Chair: Gregor Zens, HS 2 (Hörsaaltrakt)****Ertz Florian**, Münnich Ralf

University of Trier  
*Undergraduate Students' Use of Digital Learning Materials in a Basic Statistics Course*

**Laa Ursula**

BOKU Vienna  
*Frame to frame interpolation for high-dimensional data visualisation using the woylier package*

Fuchs S., Limbach C., **Langthaler Patrick**

University of Salzburg  
*A new coefficient of separation*

Fischerová Jana, **Musil Petr**, Kahoun Jaroslav

Prague University of Economics and Business  
*Regional macroeconomic statistics – pitfalls of interpretation*

10:00-10:30

**Coffee Break**

10:30-12:20

**IS 2 Chair: Ulrike Oschischnig, HS 2 (Hörsaaltrakt)****Greganova Zuzana**

Dachverband der Sozialversicherungsträger  
*Individual-Based Statistics in Austria's Social Security System*

**Böheim René**

JKU Linz  
*Labor Market Challenges and Data-Driven Insights*

**Stehrer Robert**

WIIW  
*New technologies, employment and wages – Selected evidence based on Austrian microdata*

**Gundl Florian**

Statistik Oberösterreich  
*Supporting Economic Policy with Regional Data: Experiences from Upper Austria*

12:20-13:30

**Lunch Break**

13:30-15:00

**IS 3 Chair: Tatyana Krivobokova, HS 2 (Hörsaaltrakt)****Behr Merle**

University of Regensburg  
*Interpretability from Random Forest tree ensembles*

**Finocchio Gianluca**

University of Vienna  
*Model-free identification in ill-posed regression*

**Pastukhov Vladimir**

University of Vienna  
*Fused lasso nearly-isotonic signal approximation in general dimensions*

15:00-15:30

**Coffee Break**

15:30-17:20

**IS 4 Chair: David Preinerstorfer, HS 2 (Hörsaaltrakt)**

**Kock Anders B.**, Preinerstorfer David

University of Oxford

*High-dimensional Gaussian and bootstrap approximations for robust means*

**Krivobokova Tatyana**

University of Vienna

*Machine learning and statistical methods for high-throughput experimental data.*

**Amann Nicolai David**

University of Vienna

*Uncertainty quantification via cross-validation and its variants under algorithmic stability*

**Zuniga Irigoien Alonso**

WU Vienna

*Targeted Sensitive Covariate Privatization in Optimal Policy Learning*

evening

**Conference Dinner (Separate Payment Needed)**

**Thursday**

**9/4/2025**

8:40-10:00

**CS 3 Chair: Ursula Laa, HS 2 (Hörsaaltrakt)**

**Zens Gregor**

IIASA

*Bayesian Matrix Factor Models for Demographic Analysis Across Age and Time*

**Tubikanec Irene**

JKU Linz

*Network inference via approximate Bayesian computation. Illustration on a stochastic multi-population neural mass model*

**Pfeiler Roman**, Wagner Helga

JKU Linz

*Shrinkage in a Bayesian Zero-Inflated Negative Binomial Panel Data Model with Time-Varying Coefficients*

**Zhu Hao**

JKU Linz

*Bayesian optimal experimental prediction design for physical experiments informed by computer experiments*

10:00-10:30

**Coffee Break**

10:30-12:20

**IS 5 Chair: Werner Müller (dedicated to Andreas Quatember), HS 2 (Hörsaaltrakt)**

**Münnich Ralf**

University of Trier

*Data quality and representativity – excuse or concept?*

**Bacher Johann**

ehem. JKU Linz | im Ruhestand

*Statistical Significance versus Substantive Relevance - The contribution of Andreas Quatember*

**Kowarik Alexander**

Statistics Austria

*Experience with Tailored Designs at Statistics Austria*

**Templ Matthias**

FHNW Switzerland

*Advances in Robust Multiple Imputation for Complex and Non-linear Data*

12:20-13:30

**Lunch Break**

13:30-15:00

**IS 6 Chair: Alexander Kowarik, HS 2 (Hörsaaltrakt)**

**van der Loo Mark**

Statistics Netherlands

*Population-Scale Networks in Official Statistics: Use Cases and Privacy Implications*

**Niederhametner Nina**

Statistics Austria

*Municipal-Level Estimation of Tourism Perception: A Machine Learning-Based Approach to Small Area Estimation*

**von Norsinski Nils**

Statistics Austria

*Usage of Remote Sensing data at Statistics Austria – Creation of a land cover Map*

15:00-15:30

**Coffee Break**

15:30-17:00

IS 7 Chair: Andreas Futschik (dedicated to Helga Wagner), HS 2 (Hörsaaltrakt)

**Frühwirth-Schnatter Sylvia**

WU Vienna

*Bayesian Learning for State Space Models*

**Komárek Arnošt**

Charles University Prague, Czech Republic

*Statistical modelling of multivariate mixed type panel data*

**Malsiner-Walli Gertraud**

WU Vienna

*Effect fusion using model-based clustering*