



10th Survival Analysis for Junior Researchers Conference

19th - 21st March 2025

University Club Bonn

Program and Poster list

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Program

Wednesday 19th March 2025

08:00 - 09:00		Registration
09:00 - 09:15		Welcome
09:15 - 10:15		Session 1 - Epidemiology Chair: Benjamin Aretz
	Yangfan Li Oxford, United Kingdom	Risk prediction using case-cohort samples: A scoping review and empirical comparison
	Judith Vilsmeier Ulm, Germany	Implication of the choice of time scales in survival analysis
	Bor Vratnar Ljubljana, Slovenia	Leveraging cancer incidence for lead time estimation in cancer screening programmes
10:15 - 10:35		Coffee Break
10:35 - 11:35		Session 2 - Dynamic prediction models Chair: Anders Munch
	Niklas Hagemann Cologne, Germany	Capturing subgroup-specific time-variation in covariate effects in Cox-type hazard regression models
	Pedro Miranda Afonso Rotterdam, The Netherlands	Dynamic prediction of survival benefit to inform liver transplant decisions in hepatocellular carcinoma
	Mirko Signorelli Leiden, The Netherlands	Dynamic prediction with numerous longitudinal predictors: How to combine the best of both worlds (landmarking and joint modelling) through penalized regression calibration
11:35 - 11:45		Short Break
11:45 - 12:45		Keynote Chair: Alina Schenk
	Morten Overgaard Aarhus, Denmark	Regression analysis with jack-knife pseudo-observations
12:45 - 13:45		Lunch Break
13:45 - 14:25		Session 3 - Pseudo-observations Chair: Alina Schenk
	Simon Mack Dortmund, Germany	Bootstrap-based inference for pseudo-value regression models
	Nickson Murunga Leicester, United Kingdom	Implications of pseudo-observations in prognostic modelling: Addressing left truncation
14:25 - 18:00		Excursion: Mission AI, Deutsches Museum
18:00 - 20:00		Poster Session

<p>08:30 - 9:50</p> <p>Antoine Caillebotte Paris, France</p> <p>Riccardo De Santis Siena, Italy</p> <p>Anders Munch Copenhagen, Denmark</p> <p>Simon Wiegrebe Munich, Germany</p>	<p>Session 4 - High-dimensional survival analysis and machine learning Chair: Thomas Welchowski</p> <p>Estimation and variables selection in a joint model of survival times and longitudinal data with random effects</p> <p>Sign-flip test for coefficients in the Cox regression model</p> <p>Targeted learning with right-censored data using the state learner</p> <p>Deep learning for survival analysis: A review</p>
<p>09:50 - 10:15</p>	<p>Coffee Break</p>
<p>10:15 - 11:35</p> <p>Morine Delhelle Ottignies-Louvain-la-Neuve, Belgium</p> <p>Blanca E. Monroy-Castillo A Coruña, Spain</p> <p>Beatriz Piñeiro-Lamas A Coruña, Spain</p> <p>Tsz Pang Yuen Amsterdam, The Netherlands</p>	<p>Session 5 - Cure models Chair: Marta Cipriani</p> <p>Copula based dependent censoring in cure models with covariates</p> <p>Testing the effect of multiple covariates on cure rates in mixture cure models based on distance correlation</p> <p>The sicure R package: Single-index mixture cure models</p> <p>Testing for sufficient follow-up in survival data with covariates</p>
<p>11:35 - 11:45</p>	<p>Short Break</p>
<p>11:45 - 12:45</p> <p>Nan van Geloven Leiden, The Netherlands</p>	<p>Keynote Chair: Matthias Schmid</p> <p>Causal prediction of time-to-event outcomes</p>
<p>12:45 - 13:45</p>	<p>Lunch Break</p>

<p>13:45 - 15:05</p> <p>Niklas Maltzahn Oslo, Norway</p> <p>Ilaria Prosepe Leiden, The Netherlands</p> <p>Alice Marion Richardson Canberra, Australia</p> <p>Sandra Schmeller Ulm, Germany</p>	<p>Session 6 - Causality Chair: Yujun Xu</p> <p>Robust estimation of occupation probabilities of latent multi-state processes</p> <p>Interventional dynamic updating of prognostic survival models in a pandemic environment</p> <p>Surviving your PhD: An analysis of time to completion data</p> <p>A "what if"-interpretation of the Kaplan-Meier estimator and, in general, no such interpretation for competing risks</p>
<p>15:05 - 15:35</p>	<p>Coffee Break</p>
<p>15:35 - 16:55</p> <p>Lucia Ameis Cologne, Germany</p> <p>Moritz Fabian Danzer Münster, Germany</p> <p>Beatriz Farah Paris, France</p> <p>Chloé Szurewsky Paris, France</p>	<p>Session 7 - Pharmaceutical statistics and clinical trials Chair: Sam Doerken</p> <p>A non-parametric proportional risk model to assess a treatment effect in an application to randomized controlled trials</p> <p>Exhausting the type I error level in a group-sequential design with a closed testing procedure for progression-free and overall survival</p> <p>Sample size calculation based on differences of quantiles from right-censored data</p> <p>One-sample survival tests for non-proportional hazards in oncology clinical trials: A simulation study</p>
<p>16:55 - 19:00</p>	<p>Evening Break</p>
<p>19:00 - 22:00</p>	<p>Conference dinner at Godesburg Castle</p>

08:30 - 09:50	<p>Antoniya Dineva Bielefeld, Germany</p> <p>Gilbert Kiprotich Munich, Germany</p> <p>Marilena Müller Heidelberg, Germany</p> <p>Thomas Welchowski Zurich, Switzerland</p>	<p>Session 8 - Parametric regression models Chair: David Köhler</p> <p>A “double copula” model for semi-competing risks data</p> <p>Incorporation of a mixture distribution on frailty regression model for clustered survival data</p> <p>Comparing a time-to-event endpoint in a two-arm trial investigating personalized treatment</p> <p>R-package discSurv: A toolbox for discrete time survival analysis</p>
09:50 - 10:15	Coffee Break	
10:15 - 11:35	<p>Salvatore Battaglia Palermo, Italy</p> <p>Sam Doerken Freiburg, Germany</p> <p>Marta Spreafico Leiden, The Netherlands</p> <p>Yujun Xu Munich, Germany</p>	<p>Session 9 - Competing risks and multistate models Chair: Pedro Miranda Afonso</p> <p>Extending the vertical model: An alternative approach to competing risks with clustered data</p> <p>Patient disposition in clinical trials: Addressing competing risks with stacked probability and proportion plots</p> <p>Discrimination performance in illness-death models with interval-censored disease data</p> <p>Transitions, sojourns, and bias: Simulation insights for transplant strategies in leukemia</p>
11:35 - 11:45	Short Break	
11:45 - 12:45	<p>Dennis Dobler Dortmund, Germany</p>	<p>Keynote Chair: Kathrin Möllenhoff</p> <p>Resampling options in survival and event history analysis</p>
12:45 - 13:00	Closing Remarks, Best Talk and Poster Award	

Poster list

- 1 *Duoerkongjiang Alidan* - Methods for analyzing multiple time-to-event endpoints in randomized clinical trials: A comprehensive overview
- 2 *Luzia Berchtold* - Reconstructing survival curves: Using imputation strategies to construct Kaplan-Meier estimates with no or limited data on survivors
- 3 *Adriana Blanda* - Comparison of the prognostic performance of machine learning algorithms on gene expression data in acute myeloid leukemia
- 4 *Oksana Chernova* - Building risk prediction models by synthesizing national registry and prevention trial data
- 5 *Marta Cipriani* - Extending landmarking to mixture cure models with time-varying covariates
- 6 *Hannah Louise Cooper* - Investigating the most suitable modelling framework to predict long-term restricted mean survival time and life expectancy
- 7 *Inez De Batselier* - Introducing a flexible model for regression models with a left-censored response and covariate
- 8 *Lorenzo Del Castello* - An R function for data preparation for an acyclic multistate model with non-ordered intermediate states
- 9 *Claudio Del Sole* - Principled estimation and prediction with competing risks: A Bayesian nonparametric approach
- 10 *Maryam Farhadizadeh* - Enhancing healthcare understanding from clinical routine data by simplifying the representation of treatment pathways
- 11 *Jannis Guski* - Does a SARS-CoV-2 infection increase the risk of dementia? An application of causal time-to-event analysis on real-world patient data
- 12 *Toby Hackmann* - Effective sample size for Cox models: A measure of individual uncertainty in survival predictions
- 13 *Natalia Hong* - Imputation free deep survival prediction using conditional variational autoencoders
- 14 *Udeerna Ippagunta* - Planning early-phase clinical trials in oncology: A comprehensive simulation approach for response, progression-free survival, and overall survival
- 15 *Tijn Jacobs* - A nonparametric Bayesian approach for high-dimensional causal effect estimation in survival analysis

- 16 *Lukas Klein* - Do commonly used machine learning implementations allow for IPCW to address censoring? A closer look at scikit-learn
- 17 *Luca Kleineidam* - Life expectancies and blood-based biomarkers for Alzheimer's disease in primary care
- 18 *Zoe Kristin Lange* - Testing the similarity of healthcare pathways based on transition probabilities - A new bootstrap procedure
- 19 *Sara Matijevic* - Prediction stability of survival models
- 20 *Mequanent Mekonen* - Bayesian joint modeling of bivariate longitudinal and time-to-event data: With application of micro and macro vascular complication in people with type 2 diabetes and hypertension
- 21 *Johan Sebastian Ohlendorff* - A pragmatic approach to the estimation of the interventional absolute risk in continuous time
- 22 *Leonardo Perotti* - Modeling the early-redemption of fixed interest rate mortgages: A survival analysis approach
- 23 *Eliz Peyraud* - Improving Cox regression estimates by using the stochastic approximation expectation-maximization algorithm to handle missing data
- 24 *James Salisbury* - Assurance methods for designing a clinical trial with a delayed treatment effect
- 25 *Justine Sauce* - CORALE project: Cumulative lifetime multi-exposures to ionising radiation and other risk factors and associations with chronic diseases in the CONSTANCES cohort
- 26 *Lena Schemet* - Bootstrapping LASSO-type estimators in Cox frailty models
- 27 *Julian Schlecker* - Propagator methods for survival analysis
- 28 *Sebastian Schwick* - Multi-state models for individualized treatment response prediction and risk assessment in multiple myeloma
- 29 *Fiete Sieg* - Double-truncated and censored corporate lifetimes: Likelihood and identification
- 30 *Henrik Stahl* - Combining machine learning methods for subgroup identification in time-to-event data with approximate Bayesian computation for bias correction
- 31 *Lubomír Štěpánek* - Machine learning for survival analysis: Predicting time-to-event through decomposition
- 32 *Lubomír Štěpánek* - A machine learning approach for comparing multiple survival curves: Random forests with reduced assumption dependency
- 33 *Ferdinand Valentin Stoye* - Increasing flexibility for the meta-analysis of full ROC curves - A copula approach
- 34 *John Zobolas* - A pareto-driven ensemble feature selection approach optimizes biomarker discovery in multi-omics pancreatic cancer studies