

# PROGRAM

## 6<sup>th</sup> International Workshop on Statistical Analysis on Multi-Outcome data

June 29-July 1st, 2026, Bordeaux, FR

**DAY1**  
**June 29, 2026**

**8:30-9:00**    *Welcome*

**9:00-9:15**    Introduction ( ...)

**9:15-10:15**    One invited KEYNOTE Speech / 50' talk + 10'discussion

**Title Navigating the Crossroads of Statistics, Generative AI, and Genomic Health**  
Xihong Lin, Biostatistics, Harvard T.H. Chan School of Public Health

**10:15-10:45**    *Coffee break*

**10:45-12:25**    [4 Parallel invited SESSIONS] 20' talk + 5'discussion

**Session 1: Deep learning in survival analysis**

Organizer: Lei Liu    [lei.liu@wustl.edu](mailto:lei.liu@wustl.edu)

- Jon Steingrimsson    [jon\\_steingrimsson@brown.edu](mailto:jon_steingrimsson@brown.edu)  
**Title: Deep Learning with Time-to-event Outcomes**
- Xingqiu Zhao    [xingqiu.zhao@polyu.edu.hk](mailto:xingqiu.zhao@polyu.edu.hk)  
**Title: Robust Estimation and Inference for Accelerated Failure Time Models via Double Machine Learning**
- Peter X Song    [pxsong@umich.edu](mailto:pxsong@umich.edu)  
**Title: Neural Network Machine Regression (NNMR): A Deep Learning Framework for Uncovering High-order Synergistic Effects**
- Kevin He    [kevinhe@umich.edu](mailto:kevinhe@umich.edu)  
**Title: Flexible Deep Learning Techniques for Survival Analysis with Data Integration**

**Session 2: Early or intercurrent events in (long-term outcome) clinical trials**

Organizer: Catherine Legrand    [catherine.legrand@uclouvain.be](mailto:catherine.legrand@uclouvain.be)

- Philippe Lambert (Uliège, UClouvain)    [p.lambert@uliege.be](mailto:p.lambert@uliege.be)  
**Title: Joint Modeling of Longitudinal Health-Related Quality of Life Data in the Presence of Competing Dropout Risks**
- Georgios Kazantzidis    [georgios.kazantzidis@roche.com](mailto:georgios.kazantzidis@roche.com)  
**Title: A Joint Multi-State Model for Causal Mediation Analysis adjusting for treatment switching in Oncology**
- Luc Boone (EORTC)    [luc.boone@eortc.org](mailto:luc.boone@eortc.org)  
**Title: Estimation of inverse probability of censoring weights using shared parameter joint models for longitudinal and survival outcomes.**
- Tomasz Burzykowski    [tomasz.burzykowski@iddi.com](mailto:tomasz.burzykowski@iddi.com)

**Title: Early-outcome-based interim analyses in randomized clinical trials with long-term clinical endpoints**

**Session 3: Trustworthy AI and Statistical Innovation for Complex Health Data**

Organizer: Ying Wei

[yw2148@cumc.columbia.edu](mailto:yw2148@cumc.columbia.edu)

- Tianying Wang [Tianying.Wang@colostate.edu](mailto:Tianying.Wang@colostate.edu)

**Title: Confounder Missingness in EHR Comparative Effectiveness: MI or PS Calibration?**

- Kaizheng Wang [kaizheng.wang@columbia.ca](mailto:kaizheng.wang@columbia.ca)

**Title: Quantifying Fidelity in AI Persona Simulations**

- Nan Linnlin [NanLinnlin@wustl.edu](mailto:NanLinnlin@wustl.edu)

**Title: Trajectory Clustering via Spatial-Graph and LLM-Semantic Embeddings**

- Jinbao Chen [jinboche@upenn.edu](mailto:jinboche@upenn.edu)

**Title: A Semiparametric Method for Addressing Under-Diagnosis Using Electronic Health Record Data**

**Session 4: Joint models with Bayesian inference**

Organizer: Sangita Kulathinal (Finland)

[sangita.kulathinal@helsinki.fi](mailto:sangita.kulathinal@helsinki.fi)

- Etienne Sebag [etienne.sebag@helsinki.fi](mailto:etienne.sebag@helsinki.fi)

**Title: Bayesian estimating Transition Rates in Two-State Non-Homogeneous Markov Jump Processes with Intermittent Observations: An Honest Time Data Augmentation Approach**

- Marion keroui [marion.keroui@mrc-bsu.cam.ac.uk](mailto:marion.keroui@mrc-bsu.cam.ac.uk)

**Title: A Bayesian partition model for multivariate functional data: discovering biological pathways by modelling the time course of gene expression level**

- Trinh Dong Huu [trinh.dong-huu-khanh@u-bordeaux.fr](mailto:trinh.dong-huu-khanh@u-bordeaux.fr)

**Title: Double inverse probability weighting for modeling sparsely measured longitudinal markers in presence of left and right truncation by death**

- Satrajit Roychoudhury [satrajit.roychoudhury@pfizer.com](mailto:satrajit.roychoudhury@pfizer.com)

**Title: Robust dynamic borrowing designs for randomized basket trials: a case study from the ultra-rare invasive mold infections**

**12:25-13:30 Lunch**

**13:30-15:10 [4 Parallel invited SESSIONS] 20' talk + 5'discussion**

**Session 5: Some Advanced Statistical Learning Methods for Modern Scientific Data**

Organizer: Lexin Li

[lexinli@berkeley.edu](mailto:lexinli@berkeley.edu)

- Ji Zhu [jizhu@umich.edu](mailto:jizhu@umich.edu)

**Title: Modeling non-uniform hypergraphs using determinantal point processes.**

- Yuhua Zhu [yuhua.zhu@stat.ucla.edu](mailto:yuhua.zhu@stat.ucla.edu)

**Title: Structure-aware model-free algorithms for continuous-time reinforcement learning.**

- Moo Kyung Chung [mkchung@wisc.edu](mailto:mkchung@wisc.edu)

**Title: Covariate-adjusted topological inference and learning.**

- Junwei Lu [junweilu@hsph.harvard.edu](mailto:junweilu@hsph.harvard.edu)

**Affiliation: Ranking inference for human feedback tuning in large language models.**

**Session 6: Joint models for risk prediction according to marker variability**

Organizer: Helene Jacqmin-Gadda

[Helene.Jacqmin-Gadda@u-bordeaux.fr](mailto:Helene.Jacqmin-Gadda@u-bordeaux.fr)

- Jessica Barrett [jessica.barrett@mrc-bsu.cam.ac.uk](mailto:jessica.barrett@mrc-bsu.cam.ac.uk)

**Title: Flexible Bayesian semi-parametric approaches for modelling within-individual variability in joint models**

- Leonie Courcoul [leonie.courcoul@u-bordeaux.fr](mailto:leonie.courcoul@u-bordeaux.fr)

**Title: Joint models with heteroscedastic residual variance: an application to the impact of blood pressure variability on competing health events.**

- Jianxin Pan, China [jianxinpan@uic.edu.cn](mailto:jianxinpan@uic.edu.cn)

**Title: Measuring Biomarker Variability for Survival Data**

- Michael Elliott [mrelliot@umich.edu](mailto:mrelliot@umich.edu)

**Title: Joint Modeling of Multiple Longitudinal Biomarkers and Survival Outcomes via Threshold Regression: Variability as a Predictor**

### **Session 7: Recent Developments in Survival Analysis**

Organizer: Gang Li [vli@ucla.edu](mailto:vli@ucla.edu)

- Ingrid Van Keilegom [ingrid.vankeilegom@kuleuven.be](mailto:ingrid.vankeilegom@kuleuven.be)

**Title: On an extension of the Cox model for time-dependent covariates under dependent censoring with unknown association**

- Donglin Zeng [dzeng@umich.edu](mailto:dzeng@umich.edu)

**Title: Simultaneous Confidence Bands for Time-Varying Hazard Ratios with Interval-Censored Data**

- Danyu Lin [lin@bios.unc.edu](mailto:lin@bios.unc.edu)

**Title: Checking the Cox Proportional Hazards Model with Interval-Censored Data**

- Zhe Fei [zhfei@ucr.edu](mailto:zhfei@ucr.edu)

**Title: Adaptive Mixture-of-Experts Transformers for Joint Modeling of Irregular Longitudinal and Survival Data**

### **Session 8 : Nonparametric and semiparametric modeling for the analysis of complex data**

Organizer: Zhezhen Jin [zj7@cumc.columbia.edu](mailto:zj7@cumc.columbia.edu)

- Shanshan Ding [sding@udel.edu](mailto:sding@udel.edu)

**Title: Robust causal effect estimation in high-dimensional survival analysis using sufficient dimension reduction**

- Xuewen Lu [xlu@ucalgary.ca](mailto:xlu@ucalgary.ca)

**Title: Spike-and-Slab Group Lasso for High-Dimensional Cox Proportional Hazards Models.**

- Leilei Zeng [lzeng@uwaterloo.ca](mailto:lzeng@uwaterloo.ca)

**Title: Modeling Heterogeneous Disease Processes Using a Mixture of Multistate Hidden Markov Models**

- Hua Shen [hua.shen@ucalgary.ca](mailto:hua.shen@ucalgary.ca)

**Title: Integrative Analysis of Multiple Data Sources Involving Misclassification and Missing Data**

**15:10-15:40 Coffee break**

**15:40-17:20 [4 Parallel invited SESSIONS] 20' talk + 5'discussion**

### **Session 9: Recent developments in reinforcement learning methods for precision medicine**

Organizer: Donglin Zeng [dzeng@umich.edu](mailto:dzeng@umich.edu)

- Alex Luedtke [aluedtke@uw.edu](mailto:aluedtke@uw.edu)

**Title: DoubleGen: Debiased Generative Modeling of Counterfactuals**

- Zhengling Qi [gizhengling@email.gwu.edu](mailto:gizhengling@email.gwu.edu)  
**Title: Unlocking the Untapped Potential of Preference Data for LLM Alignment**
- Yuanjia Wang [yw2016@cumc.columbia.edu](mailto:yw2016@cumc.columbia.edu)  
**Title: Model-free dynamic treatment regimes with arbitrary number of treatments and stages**
- Nilanjana Laha [nilanjanaaa.laha@gmail.com](mailto:nilanjanaaa.laha@gmail.com)  
**Title: Learning Optimal Early Decision Treatment Rules with Multi-domain Intermediate Outcomes**

#### **Session 10: Distributional and Quantile Regressions for longitudinal response**

Organizer: Antoine Barbieri [antoine.barbieri@u-bordeaux.fr](mailto:antoine.barbieri@u-bordeaux.fr)

- Angelo Alcaraz [angelo.alcaraz@ens-paris-saclay.fr](mailto:angelo.alcaraz@ens-paris-saclay.fr)  
**Title: On asymmetric Laplace regression models: application to trophic diversity**
- Lei Liu [lei.liu@wustl.edu](mailto:lei.liu@wustl.edu)  
**Title: Efficient Estimation in Quantile Mixed Models via Smooth Check-Loss Approximation**
- Mouna Abed [mouna.abed@u-bordeaux.fr](mailto:mouna.abed@u-bordeaux.fr)  
**Title: A joint model based on distributional regression to study the link between blood pressure and the risk of cerebral vasospasm.**
- Gillian Z. Heller [gillian.heller@sydney.edu.au](mailto:gillian.heller@sydney.edu.au)  
**Title: Analysis approaches for composite outcomes in clinical trials**

#### **Session 11: Innovative Statistical Methods for Complex Health and Biomedical Data**

Organizer: Mei Hao [hao.mei@ruc.edu.cn](mailto:hao.mei@ruc.edu.cn)

- Hao Zhang [haozhang@arizona.edu](mailto:haozhang@arizona.edu)  
**Title: A Performance-Based Framework for Transfer Learning Measurement and Guidance**
- Kai Zhang [zhangk@email.unc.edu](mailto:zhangk@email.unc.edu)  
**Title: BELIEF in Dependence**
- Lexin Lilixinli [Lilixinli@berkeley.edu](mailto:Lilixinli@berkeley.edu)  
**Title: Brain Encoding and Decoding: Some Examples**
- Hao Mei [hao.mei@ruc.edu.cn](mailto:hao.mei@ruc.edu.cn)  
**Title: Functional Latent Space Model for Time-Varying Networks: Application to Taiwan Administrative Claims Data**

#### **Session 12: High-dimensional surrogate markers in multi-outcome settings**

Organizer: Boris Hejblum [boris.hejblum@u-bordeaux.fr](mailto:boris.hejblum@u-bordeaux.fr)

- Layla Parast [parast@austin.utexas.edu](mailto:parast@austin.utexas.edu)  
**Title: Resilience Measures for the Surrogate Paradox**
- Florian Stijven (PhD de Geert à KU Leuven) [florian.stijven@kuleuven.be](mailto:florian.stijven@kuleuven.be)  
**Title: Meta-Analytic Evaluation of Complex Surrogate Endpoints based on the Surrogate Index**
- Tianxi Cai [tcai@hsph.harvard.edu](mailto:tcai@hsph.harvard.edu)  
**Title: Stable Multi-Surrogate Transformation for Robust and Generalizable Surrogacy**
- Peter Gilbert [peterg@uw.edu](mailto:peterg@uw.edu)  
**Title: Surrogate endpoint evaluation for outcomes with high-dimensional features, with application to vaccines**

17:20-19:00 Poster and Network session ( 10 posters)

POSTERS Session: POSTERS  
...

DAY2 -  
June 30, 2026

8:30-9:00 Welcome

9:00-10:40 [4 Parallel invited SESSIONS] 20' talk + 5'discussion

**Session 13: Recent advances in transfer learning for biomedical applications**

Organizer: Lan Luo [ll1118@sph.rutgers.edu](mailto:ll1118@sph.rutgers.edu)

- Rui Duan [rduan@hsph.harvard.edu](mailto:rduan@hsph.harvard.edu)

**Title: Unsupervised Aggregation of Multiple Learning Algorithms**

- Emily C Hector [ehector@umich.edu](mailto:ehector@umich.edu)

**Title: Heterogeneity-adaptive meta-analysis**

- Tian Gu [tg2880@cumc.columbia.edu](mailto:tg2880@cumc.columbia.edu)

**Title: Hierarchical Projection for Adaptive Knowledge Transfer**

- Ling Zhou [zhouling@swufe.edu.cn](mailto:zhouling@swufe.edu.cn)

**Title: On a synergistic learning phenomenon in nonparametric domain adaptation**

**Session 14: Clustering from multivariate data**

Organizer: Anais Rouanet [anais.rouanet@u-bordeaux.fr](mailto:anais.rouanet@u-bordeaux.fr)

- Julien Jacques [julien.jacques@univ-lyon2.fr](mailto:julien.jacques@univ-lyon2.fr)

**Title: Clustering of Multivariate Longitudinal Data of mixed type**

- Julie Fendler (MRC Cambridge) [julie.fendler@mrc-bsu.cam.ac.uk](mailto:julie.fendler@mrc-bsu.cam.ac.uk)

**Title: Consensus Monte Carlo for mixtures of categorical distributions**

- Anais Rouanet [anais.rouanet@u-bordeaux.fr](mailto:anais.rouanet@u-bordeaux.fr)

**Title: Non-parametric clustering of multivariate longitudinal data with variable selection: Identifying sub-phenotypes of Alzheimer's Disease**

- Albert Paul [albertp@mail.nih.gov](mailto:albertp@mail.nih.gov)

• TBD

**Session 15: The use of functional data analysis in multivariate settings**

Organizer: Corentin Segalas [corentin.segalas@u-bordeaux.fr](mailto:corentin.segalas@u-bordeaux.fr)

- Luo Xiao [lxiao5@ncsu.edu](mailto:lxiao5@ncsu.edu)

**Title: Functional joint model for longitudinal and survival data with a functional covariate with application to a longitudinal study of objective physical activity**

- Andrew Simpkin [andrew.simpkin@universityofgalway.ie](mailto:andrew.simpkin@universityofgalway.ie)

**Title: Estimation and Application of Derivative Multivariate Functional Principal Component Analysis**

	<ul style="list-style-type: none"> <li>Corentin Segalas <a href="mailto:corentin.segalas@u-bordeaux.fr">corentin.segalas@u-bordeaux.fr</a> <b>Title: Random Survival Forest for the prediction of survival outcomes from time-varying outcomes using functional principal component analysis</b></li> <li>Sophie Dabo <a href="mailto:sophie.dabo@univ-lille.fr">sophie.dabo@univ-lille.fr</a> ?</li> </ul>
	<p><b>Session 16: New advances in survival analysis</b> Organizer: Yichuan Zhao <a href="mailto:yichuan@gsu.edu">yichuan@gsu.edu</a></p> <ul style="list-style-type: none"> <li>Edsel Pena <a href="mailto:pena@stat.sc.edu">pena@stat.sc.edu</a> <b>Title: Prediction Machines Based on Concordance Correlation</b></li> <li>Gang Li <a href="mailto:vli@g.ucla.edu">vli@g.ucla.edu</a> <b>Title: Cox-SieveTL: Semiparametric Transfer Learning via Sieve Maximum Likelihood for Cox Models</b></li> <li>Liang Lili15@mdanderson.org <b>Title: Modeling the Association Between Multivariate Nonlinear Longitudinal Data and Survival Outcome: A Measurement Error Perspective</b></li> <li>Yichuan Zhao <a href="mailto:yichuan@gsu.edu">yichuan@gsu.edu</a> <b>Title: Novel empirical likelihood method for the cumulative hazard ratio under stratified Cox models</b></li> </ul>
10:40-11:10	Coffee break
11:10-12:50	[4 Parallel invited SESSIONS] 20' talk + 5'discussion
	<p><b>Session 17: Statistical Learning for Complex Data</b> Organizer: Xingqiu Zhao <a href="mailto:xingqiu.zhao@polyu.edu.hk">xingqiu.zhao@polyu.edu.hk</a></p> <ul style="list-style-type: none"> <li>Jinfeng Xu <a href="mailto:jinfenxu@cityu.edu.hk">jinfenxu@cityu.edu.hk</a> <b>Title: Causal inference with outcome dependent sampling and mismeasured outcome</b></li> <li>Qixian Zhong <a href="mailto:qxzhong@xmu.edu.cn">qxzhong@xmu.edu.cn</a> <b>Title: Semiparametric Inference for Functional Survival</b></li> <li>Meiling Hao <a href="mailto:meilinghao@uibe.edu.cn">meilinghao@uibe.edu.cn</a> <b>Title: Conditional inference for high-dimensional multi-omics survival data</b></li> <li>Xiangbin Hu <a href="mailto:xiang-bin.hu@connect.polyu.hk">xiang-bin.hu@connect.polyu.hk</a> <b>Title: Deep Conditional Generative Learning for Optimal Individualized Treatment Rules</b></li> </ul>
	<p><b>Session 18: Software for the Analysis of Multi-Outcome Models (INLAjoint, JMBayes2, gmvjoint, frailtypack ...)</b> Organizer: Denis Rustand <a href="mailto:denis.rustand@u-bordeaux.fr">denis.rustand@u-bordeaux.fr</a></p> <ul style="list-style-type: none"> <li>Elias Krainski <a href="mailto:elias.krainski@kaust.edu.sa">elias.krainski@kaust.edu.sa</a> <b>Title: graphpcor: Models for correlation matrices based on graphs.</b></li> <li>Virginie Rondeau <a href="mailto:Virginie.Rondeau@inserm.fr">Virginie.Rondeau@inserm.fr</a> <b>Title: Assessing surrogacy from joint modeling and mediation analysis when surrogates are either censored event times or longitudinal biomarker: cancer application</b></li> <li>Janet van Niekerk <a href="mailto:janet.vanniekerk@kaust.edu.sa">janet.vanniekerk@kaust.edu.sa</a> <b>Title: INLAjoint and beyond: INLA for multi-outcome modeling.</b></li> <li>Pedro Afonso <a href="mailto:p.mirandaafonso@erasmusmc.nl">p.mirandaafonso@erasmusmc.nl</a></li> </ul>

**Title: The JMbays2 R package for joint models of longitudinal and time-to-event data:  
From flexible fitting to dynamic prediction and validation**

**Session 19: Advanced Analytical Methods in Multi-outcome Data**

Organizer: Lei Liu                      lei.liu@wustl.edu

- Yun Li                      Yun.Li@Pennmedicine.upenn.edu  
**Title: Confounder Missingness in EHR Comparative Effectiveness: MI or PS Calibration?**
- Grace Y. Yi                      gyi5@uwo.ca  
**Title: Function-on-Scalar Regression with Ultra high-Dimensional Error-Prone Covariates**
- Douglas Schaubel                      douglas.schaubel@pennmedical.upenn.edu  
**Title: Time-varying frailty model for analyzing recurrent/terminal event data**
- Yi Li                      yili@umich.edu  
**Title: Inference for Deep Neural Network Estimators**

**Session 20: Frontiers in Statistical Methodologies for Precision Medicine Research**

Organizer: Yuanjia Wang                      yw2016@cumc.columbia.edu

- Erica Moodie                      erica.moodie@mcgill.ca  
**Title: Estimating the optimal allocation of kidneys in the presence of competing risks from clustered data**
- Ashken Ertefie                      Ashkan.Ertefaie@PennMedicine.upenn.edu  
**Title: A structural nested rate model for estimating the effects of time-varying exposure on recurrent event outcomes**
- Yuan Chen                      chen19@mskcc.org  
**Title: Learning Locally Interpretable Individualized Treatment Rules**
- Yinjun Zhao                      yz3503@cumc.columbia.edu  
**Title: An Integrative Approach for Subtyping Mental Disorders Using Multimodal Data**

**13:00-14:00**

**lunch**

**14:00-15:40**

**[4 Parallel invited SESSIONS] 20' talk + 5'discussion**

**Session 21: Statistical and machine learning methods for complex biomedical data**

Organizer: Qi Long,                      qlong@pennmedicine.upenn.edu

- Hongzhe Li                      (University of Pennsylvania)  
**Title: A Robust Local Frechet Regression Using Unbalanced Neural Optimal Transport with Applications to Dynamic Single-cell Genomics Data**
- Sandra Safo                      (University of Minnesota)  
**Title: iDeepViewLearn+: Interpretable AI for Robust and Fair Multimodal Data Integration**
- Ali Shojaie (University of Washington)  
**Title: GLM Inference with AI-Generated Synthetic Data Using Misspecified Linear Regression**
- Lili Zhao (Northwestern University)  
**Title: Distributed Kaplan-Meier Curves**

### Session 22: Causal inference in presence of truncation by death

Organizer: Cecile Proust-Lima

[cecile.proust-lima@u-bordeaux.fr](mailto:cecile.proust-lima@u-bordeaux.fr)

- Daniel Nevo (Israel) [danielnevo@gmail.com](mailto:danielnevo@gmail.com)

**Title: Causal effects on non-terminal event time with application to antibiotic usage and future resistance**

- Maria Josefsson [maria.josefsson@umu.se](mailto:maria.josefsson@umu.se)

**Title: Flexible Bayesian Causal Inference for Longitudinal Health Data with Attrition and Mortality**

- Linda Valeri (NYC) [lv2424@cumc.columbia.edu](mailto:lv2424@cumc.columbia.edu)

**Title: A path-specific effect approach to mediation analysis with time-varying mediators and time-to-event outcomes accounting for competing risks**

- Stijn Vansteelandt [stijn.vansteelandt@ugent.be](mailto:stijn.vansteelandt@ugent.be)

**Title: *Evaluating Treatment Effects in Longitudinal Trials with Truncation by Death: An Assumption-Lean Approach***

### Session 23: Innovative Statistical Methods for Longitudinal and Survival Analysis in Medical Studies

Organizer: Yanqing Sun

[yasun@charlotte.edu](mailto:yasun@charlotte.edu)

- Lang Wu [lang@stat.ubc.ca](mailto:lang@stat.ubc.ca)

**Title: Joint models in longitudinal studies for efficient and robust inferences**

- Ronghui (Lily) Xu [rxu@health.ucsd.edu](mailto:rxu@health.ucsd.edu)

**Title: Learning Treatment Effects under Covariate Dependent Left Truncation and Right Censoring**

- Wenqing He [whe@stats.uwo.ca](mailto:whe@stats.uwo.ca)

**Title: Boosting methods for interval censored data with regression and classification**

- Yanqing Sun [yasun@charlotte.edu](mailto:yasun@charlotte.edu)

**Title: Estimation and Inference of Semiparametric Temporal Intensity Models for Recurrent Events with Application to a Malaria Vaccine Trial**

### Session 24: New Estimation and Inference Methods for Analyzing Composite Survival Outcomes

Organizer: Ying Ding

[YINGDING@pitt.edu](mailto:YINGDING@pitt.edu)

- Chen Hu [huc@jhu.edu](mailto:huc@jhu.edu)

**Title: On statistical inference of multiple competing risks in oncology clinical trials**

- Yu Cheng [yucheng@pitt.edu](mailto:yucheng@pitt.edu)

**Title: Win odds for Sequential Multiple Assignment Randomized Trials**

- Chung-Chou H. Chang [changj@pitt.edu](mailto:changj@pitt.edu)

**Title: A Bayesian Multi-Arm Multi-Stage Adaptive Framework for Composite Endpoints in Critical Care Trials**

- Douglas Landsittel [dplansit@buffalo.edu](mailto:dplansit@buffalo.edu)

**Title: Prognostic models for long-term survival with multi-endpoint data - examples from the Consortium for Radiological Images Studies of Polycystic Kidney Disease**

15:40-16:10

Coffee break

16:10-17:50

[4 Parallel invited SESSIONS] 20' talk + 5'discussion



### Session 25: Machine Learning and Survival Analysis

Organizer: Jiaoguo Sun [sunj@missouri.edu](mailto:sunj@missouri.edu)

- Yu Gu [yugu@hku.hk](mailto:yugu@hku.hk)

**Title: Semiparametric Functional Multi-State Models: Estimation and Testing with Application to Alzheimer's Disease**

- Yuanyuan Lin [ylin@sta.cuhk.edu.hk](mailto:ylin@sta.cuhk.edu.hk)

**Title: A Data-Augmented Contrastive Learning Approach to Nonparametric Density Estimation**

- Li Liu [lliu.math@whu.edu.cn](mailto:lliu.math@whu.edu.cn)

**Title: Automatic structure identification and variable selection for additive accelerated failure time model with ultra high dimensional covariates**

- Wen Su [w.su@cityu.edu.hk](mailto:w.su@cityu.edu.hk)

**Title: Semiparametric Causal Inference for Right-Censored Outcomes with Many Weak Invalid Instruments**

### Session 26: Area of causal inference

Organizer: Cheng Zheng [cheng.zheng@unmc.edu](mailto:cheng.zheng@unmc.edu)

- Ying Zhang

**Title: Joint Analysis of Multivariate Longitudinal Data and Interval-Censored Event Time Data with Application to Huntington's Disease Progression**

- Ran Dai

**Title: Model-free High Dimensional Mediator Selection with False Discovery Rate Control**

- Mladen Kolar

**Title: Confidence Sets for Causal Orderings**

- Youngjoo Cho

**Title: Doubly robust inference for the heterogeneous treatment effect of multiple treatments on time-to-event outcomes**

### Session 27: Joint analysis of time-to-event or longitudinal markers in the presence of mortality as a competing risk

Organizer: Sebastien HANEUSE [shaneuse@hsph.harvard.edu](mailto:shaneuse@hsph.harvard.edu)

- Eleni-Rosalina Andrinopoulou

**Title: Challenges and Opportunities in Joint Modelling of Multiple Longitudinal and Survival Outcomes**

- Daniels, Michael J., [mdaniels@stat.ufl.edu](mailto:mdaniels@stat.ufl.edu)

**Title: A Bayesian Nonparametric Approach for Semi-Competing Risks with Application to Cardiovascular Health**

- Sebastien Haneuse [shaneuse@hsph.harvard.edu](mailto:shaneuse@hsph.harvard.edu)

**Title: A novel framework for Joint prediction of longitudinal markers and death**

- Sangita Kulathinal [sangita.kulathinal@helsinki.fi](mailto:sangita.kulathinal@helsinki.fi)

**Title: Nonparametric estimation of the joint and conditional survival functions of the time to an event of interest and associated integrated covariate processes**

### Session 28: Trustworthy analysis of healthcare and medical data

Organizer: Fang Liu [Fang.Liu.131@nd.edu](mailto:Fang.Liu.131@nd.edu)

- Chuang Hong [chuan.hong@duke.edu](mailto:chuan.hong@duke.edu)

**Title: An Agentic AI System for Multi-Framework Communication Coding**

- Yajuan Si [yajuan@umich.edu](mailto:yajuan@umich.edu)

**Title: Towards Differentially Private Finite Population Estimation: An Approach Based on Survey Weight Regularization**

- Hongyuan Cao [hcao@fsu.edu](mailto:hcao@fsu.edu)

**Title: Kernel meets sieve: transformed hazards models with sparse longitudinal covariates**

- Xinghua Mindy Shi [mindyshi@temple.edu](mailto:mindyshi@temple.edu)

**Title: Mathematical Foundations of Generative AI for Human Genetics and Epigenetics**

19:45-23:00

Dinner / "Le Tchanqué" / Buffet / N=170 ?

DAY 3 -  
July 1st, 2026

8:30-9:00

Welcome

9:00-10:40

[4 Parallel invited SESSIONS] 20' talk + 5'discussion

**Session 29: Machine or deep learning for multiple longitudinal and survival data**

Organizer: Virginie Rondeau [Virginie.rondeau@inserm.fr](mailto:Virginie.rondeau@inserm.fr)

- Manel RAKEZ [rakez.manel@outlook.fr](mailto:rakez.manel@outlook.fr)

**Title: Joint models and deep learning neural networks for the longitudinal analysis of mammography images in screen-detected breast cancer risk prediction**

- Agathe Guilloux [agathe.guilloux@inria.fr](mailto:agathe.guilloux@inria.fr)

**Title: Deep Learning for Longitudinal and Survival Data: Toward Realistic Synthetic Patient Generation**

- Clemens Schaechter [clemens.schaechter@uniklinik-freiburg.de](mailto:clemens.schaechter@uniklinik-freiburg.de)

**Title: Modeling disease progression and treatment switches in rare disease trials by integrating statistical modeling and synthetic experts**

- Cécile Proust-Lima [cecile.proust-lima@u-bordeaux.fr](mailto:cecile.proust-lima@u-bordeaux.fr)

**Title: Neural controlled differential equations enhanced linear mixed model**

**Session 30: Causal mediation pathway analysis**

Organizer: Peter Song [pxsong@umich.edu](mailto:pxsong@umich.edu)

- Xinyuan Song [xysong@sta.cuhk.edu.hk](mailto:xysong@sta.cuhk.edu.hk)

**Title: Deep Learning Approaches for Individualized Causal Mediation Analysis with Survival Outcome**

- Yen-Tsung Huang [ythuang@stat.sinica.edu.tw](mailto:ythuang@stat.sinica.edu.tw)

**Title: Semiparametric mediation analysis using single-index models**

- Zhonghua Liu [zl2509@cumc.columbia.edu](mailto:zl2509@cumc.columbia.edu)

**Title: Mitigating Unmeasured Confounding Bias in Large-Scale Causal Mediation Analysis Via Factor Analysis in Epigenome-Wide Studies**

	<ul style="list-style-type: none"> <li>Jingyuan Liu <a href="mailto:jingyuan@xmu.edu.cn">jingyuan@xmu.edu.cn</a></li> </ul> <b>Title: Statistical Inference for Mediation Models with High Dimensional Exposures and Mediators</b>
	<b>Session 31: Advanced uses of joint modeling techniques with application in longitudinal and time-to-event data</b> Organizer: Dimitris Rizopoulos <a href="mailto:d.rizopoulos@erasmusmc.nl">d.rizopoulos@erasmusmc.nl</a> <ul style="list-style-type: none"> <li>Jeremy Taylor <a href="mailto:jmgt@umich.edu">jmgt@umich.edu</a>  <b>Title: Dynamic Predictions and Predictimands for Salvage Therapy in Recurrent Prostate Cancer Using Joint Models</b></li> <li>Esra Kurum <a href="mailto:esra.kurum@ucr.edu">esra.kurum@ucr.edu</a>  <b>Title: Scalable Time-Dynamic Joint Models for Multilevel Health Data</b></li> <li>Christos Thomadakis <a href="mailto:cthomadak@aueb.gr">cthomadak@aueb.gr</a>  <b>Title: Shared parameter modeling of longitudinal data allowing for possibly informative visiting process and terminal event</b></li> <li>Eleanor Pullenayegum <a href="mailto:eleanor.pullenayegum@sickkids.ca">eleanor.pullenayegum@sickkids.ca</a>  <b>Title: Addressing measurement times that are not at random in longitudinal data through joint modelling of outcomes and latent disease processes</b></li> </ul>
	<b>Session 32: TBD</b> Organizer: Yong Chen <ul style="list-style-type: none"> <li>Xiaowu Dai</li> <li>Yumou Qiu</li> <li>Jingmei Qiu</li> <li>Yong Chen</li> </ul>
<b>10:40-11:10</b>	<b>Coffee break</b>
<b>11:10-12:10</b>	<b>One invited KEYNOTE Speech / 50' talk + 10'discussion</b>
	<b>Title Harnessing Variational Auto-Encoders for Fitting Deep Mixed-Effects Models</b> Dimitris Rizopoulos, Erasmus University Medical Center <a href="mailto:d.rizopoulos@erasmusmc.nl">d.rizopoulos@erasmusmc.nl</a>
<b>12:10-12:30</b>	<b>Closing remarks</b>