**Keynote Speaker 1 :**

**Dimitris Rizopoulos d.rizopoulos@erasmusmc.nl**

- **Title: Harnessing Variational Auto-Encoders for Fitting Deep Mixed-Effects Models**

**Keynote Speaker 2 :**

**Xihong Lin xlin@hsph.harvard.edu**

- **Title:**

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

Organizer: Lei Liu

- Jon Steingrimsson jon_steingrimsson@brown.edu
  **Title: Deep Learning with Time-to-event Outcomes**

- Jane-Ling wang jlwang.ucdavis@gmail.com
  **Title: Deep learning for survival data**

- Peter X Song pxsong@umich.edu
  **Title: Neural Network Machine Regression (NNMR): A Deep Learning Framework for Uncovering High-order Synergistic Effects**

- Kevin He kevinhe@umich.edu
  **Title: Flexible Deep Learning Techniques for Survival Analysis with Data Integration**

**Session 2** : Causal mediation pathway analysis

Organizer: Peter Song

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

- Zhonghua Liu zl2509@cumc.columbia.edu

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

- Jingyuan Liu jingyuan@xmu.edu.cn

**Title: Statistical Inference for Mediation Models with High Dimensional Exposures and Mediators**

## Session 3 : Some Advanced Statistical Learning Methods for Modern Scientific Data

Organizer: Lexin Li

- Ji Zhu jizhu@umich.edu

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

- Yuhua Zhu yuhua.zhu@stat.ucla.edu

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

- Moo Kyung Chung mkchung@wisc.edu.

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

- Junwei Lu junweilu@hsph.harvard.edu.

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

## Session 4 : Recent developments in reinforcement learning methods for precision medicine

Organizer: Donglin Zeng

- Alex Luedtke aluedtke@uw.edu

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

- Zhengling Qi qizhengling@email.gwu.edu

**Title: Unlocking the Untapped Potential of Preference Data for LLM Alignment**

- Yuanjia Wang yw2016@cumc.columbia.edu

**Title: Model-free dynamic treatment regimes with arbitrary number of treatments and stages**

- Nilanjana Laha nilanjanaaa.laha@gmail.com

**Title: Learning Optimal Early Decision Treatment Rules with Multi-domain Intermediate Outcomes**

## Session 5 : Recent advances in transfer learning for biomedical applications

Organizer: Lan Luo

- Rui Duan rduan@hsph.harvard.edu

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

- Emily C Hector ehector@umich.edu

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

- Tian Gu tg2880@cumc.columbia.edu

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

- Ling Zhou zhouling@swufe.edu.cn

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

## Session 6 : area of causal inference

Organizer: Cheng Zheng

- 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 7 : New advances in survival analysis

Organizer: Yichuan Zhao

- Edsel Pena pena@stat.sc.edu

TBD

- Gang Li vli@g.ucla.edu

**Title: Cox-SieveTL: Semiparametric Transfer Learning via Sieve Maximum Likelihood for Cox Models**

- Liang Li lli15@mdanderson.org

**Title: Modeling the Association Between Multivariate Nonlinear Longitudinal Data and Survival Outcome: A Measurement Error Perspective**

- Yichuan Zhao yichuan@gsu.edu

**Title: Novel empirical likelihood method for the cumulative hazard ratio under stratified Cox models**

## Session 8 : Recent Developments in Survival Analysis

Organizer: Gang Li

- Ingrid Van Keilegom ingrid.vankeilegom@kuleuven.be
- Donglin Zeng dzeng@umich.edu
- Danyu Lin lin@bios.unc.edu
- Zhe Fei zhef@ucr.edu

## Session 9 : Nonparametric and semiparametric modeling for the analysis of complex data

Organizer: Zhezhen Jin

- Shanshan Ding sding@udel.edu

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

- Xuewen Lu xlu@ucalgary.ca

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

- Leilei Zeng lzeng@uwaterloo.ca

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

- Hua Shen hua.shen@ucalgary.ca

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

## Session 10 : Statistical Learning for Complex Data

Organizer: Xingqiu Zhao

- Jinfeng Xu jinfenxu@cityu.edu.hk

**Title: Causal inference with outcome dependent sampling and mismeasured outcome**

- Qixian Zhong qxzhong@xmu.edu.cn

**Title: Semiparametric Inference for Functional Survival**

- Meiling Hao meilinghao@uibe.edu.cn

**Title: Conditional inference for high-dimensional multi-omics survival data**

- Xiangbin Hu xiang-bin.hu@connect.polyu.hk

**Title: Deep Conditional Generative Learning for Optimal Individualized Treatment Rules**

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

Organizer: Mei Hao

- Hao Zhang haozhang@arizona.edu

**Title: A Performance-Based Framework for Transfer Learning Measurement and Guidance**

- Annie Qu aqu2@ucsb.edu

**Title: Cumulative Treatment Effect Testing under Continuous Time Reinforcement Learning**

- Lexin Li lexinli@berkeley.edu

**Title: Brain Encoding and Decoding: Some Examples**

- Hao Mei hao.mei@ruc.edu.cn

**Title: Functional Latent Space Model for Time-Varying Networks: Application to Taiwan Administrative Claims Data**

## Session 12 : Trustworthy AI and Statistical Innovation for Complex Health Data

Organizer: Ying Wei yw2148@cumc.columbia.edu

- Tianying Wang Tianying.Wang@colostate.edu

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

- Kaizheng Wang kaizheng.wang@columbia.ca

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

- Nan Lin nlin@wustl.edu

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

- Jinbao Chen jinboche@upenn.edu

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

## Session 13 : Frontiers in Statistical Methodologies for Precision Medicine Research

Organizer: Yuanjia Wang

- 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 cheny19@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**

## Session 14 : Statistical and machine learning methods for complex biomedical data

Organizer: Qi Long, University of Pennsylvania

- 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 15 : TO be defined

Organizer: Yong Chen

- Xiaowu Dai
- Yumou Qiu
- Jingmei Qiu
- Yong Chen

## Session 16 : New Estimation and Inference Methods for Analyzing Composite Survival Outcomes

Organizer: Ying Ding YINGDING@pitt.edu

- Chen Hu huc@jhu.edu

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

- Yu Cheng yucheng@pitt.edu

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

- Chung-Chou H. Chang changj@pitt.edu

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

- Douglas Landsittel 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**

## Session 17 : Trustworthy analysis of healthcare and medical data

Organizer: Fang Liu

- Chuang Hong chuan.hong@duke.edu

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

- Yajuan Si yajuan@umich.edu

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

- Hongyuan Cao hcao@fsu.edu

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

- Xinghua Mindy Shi mindyshi@temple.edu

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

## Session 18 : Machine Learning and Survival Analysis

Organizer: Jiaoguo Sun

- Yu Gu 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

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

- Li Liu 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

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

## Session 19 : Innovative Statistical Methods for Longitudinal and Survival Analysis in Medical Studies

Organizer: Yanqing Sun

- Lang Wu lang@stat.ubc.ca

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

- Ronghui (Lily) Xu rxu@health.ucsd.edu

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

- Wenqing He whe@stats.uwo.ca

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

- Yanqing Sun yasun@charlotte.edu

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

## Session 20 : Advanced Analytical Methods in Multi-outcome Data

Organizer: Lei Liu

- 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 21 : Joint models for risk prediction according to marker variability

Organizer: Helene Jacqmin-Gadda

- Jessica Barett 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

**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

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

- Michael Elliott mrelliot@umich.edu

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

## Session 22 : The use of functional data analysis in multivariate settings

Organizer: Corentin Segalas

- Sheng Luo TBD
- Sophie Dabo-Niang Sonja Greven sophie.dabo@univ-lille.fr
- Luo Xiao lxiao5@ncsu.edu
- Andrew Simpkin andrew.simpkin@universityofgalway.ie

## Session 23 : High-dimensional surrogate markers in multi-outcome settings

Organizer: Boris Hejblum

- Layla Parast parast@austin.utexas.edu

**Title: Resilience Measures for the Surrogate Paradox**

- Florian Stijven (PhD de Geert à KU Leuven) florian.stijven@kuleuven.be

**Title: Meta-Analytic Evaluation of Complex Surrogate Endpoints based on the Surrogate Index**

- Tianxi Cai tcai@hsph.harvard.edu

**Title: Stable Multi-Surrogate Transformation for Robust and Generalizable Surrogacy**

- Peter Gilbert peterg@uw.edu

**Title: Surrogate endpoint evaluation for outcomes with high-dimensional features, with application to vaccines**

## Session 24 : Machine or deep learning for multiple longitudinal and survival data

Organizer: Virginie Rondeau

- Manel RAKEZ 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

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

- Clemens Schaechter clemens.schaechter@uniklinik-freiburg.de

**Title: Mcourcodeling 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

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

## Session 25 : Distributional and Quantile Regressions for longitudinal response

Organizer: Antoine Barbieri

- Angelo Alcaraz angelo.alcaraz@ens-paris-saclay.fr

**Title: On asymmetric Laplace regression models: application to trophic diversity**

- Lei Liu lei.liu@wustl.edu

**Title: Efficient Estimation in Quantile Mixed Models via Smooth Check-Loss Approximation**

- Mouna Abed 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

**Title: Analysis approaches for composite outcomes in clinical trials**

## Session 26 : Causal inference in presence of truncation by death

Organizer: Cecile Proust-Lima cecile.proust-lima@u-bordeaux.fr

- Daniel Nevo (Israel) danielnevo@gmail.com

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

- Linda Valeri (NYC) 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**

- Maria Josefsson maria.josefsson@umu.se

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

- Stijn Vansteelandt. stijn.vansteelandt@ugent.be

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

## Session 27 : Clustering from multivariate data

Organizer: Anais Rouanet

- Julien Jacques

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

- Julie Fendler (MRC Cambridge)

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

- Alexandra Young (UCL, software SustaIn)

## Session 28 : Early or intercurrent events in (long-term outcome) clinical trials

Organizer: Catherine legrand

- Philippe Lambert (Uliège, UClouvain) 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

**Title: A Joint Multi-State Model for Causal Mediation Analysis adjusting for treatment switching in Oncology**

- Luc Boone (EORTC) bori

**Title: Estimation of inverse probability of censoring weights using shared parameter joint models for longitudinal and survival outcomes.**

- Tomasz Burzykowsky tomasz.burzykowski@iddi.com

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

## Session 29 : advanced uses of joint modeling techniques with application in longitudinal and time-to-event data

Organizer: Dimitris Rizopoulos

- Jeremy Taylor jmgt@umich.edu

**Title: Dynamic Predictions and Predictimands for Salvage Therapy in Recurrent Prostate Cancer Using Joint Models**

- Esra Kurum esra.kurum@ucr.edu

**Title: Scalable Time-Dynamic Joint Models for Multilevel Health Data**

- Christos Thomadakis cthomadak@aueb.gr

**Title: Shared parameter modeling of longitudinal data allowing for possibly informative visiting process and terminal event**

- Eleanor Pullenayegum eleanor.pullenayegum@sickkids.ca

**Title: Addressing measurement times that are not at random in longitudinal data through joint modelling of outcomes and latent disease processes**

## Session 30 : Software for the Analysis of Multi-Outcome Models (INLAjoint, JMbayes2, gmvjoint, frailtypack ...)

Organizer: Denis Rustand denis@rustand.fr

- Elias Krinsky elias.krainski@kaust.edu.sa

**Title: graphpcor: Models for correlation matrices based on graphs.**

- Pedro Afonso p.mirandaafonso@erasmusmc.nl

- Virginie Rondeau Virginie.Rondeau@inserm.fr

**Title: Assessing surrogacy from joint modeling and mediation analysis when surrogates are either censored event times or longitudinal biomarker: cancer application**

- Janet Vanniekerk janet.vanniekerk@kaust.edu.sa

**Title: INLAjoint and beyond: INLA for multi-outcome modeling.**

## Session 31 : 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

- Eleni-Rosalina Andrinopoulou

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

- Daniels, Michael J., mdaniels@stat.ufl.edu

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

- Sebastien Haneuse shaneuse@hsph.harvard.edu

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

- Sangita Kulathinal 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 32 : Joint models with Bayesian inference

Organizer: Sangita Kulathinal (Finland) sangita.kulathinal@helsinki.fi

- Etienne Sebag etienne.sebag@helsinki.fi

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

- Marion keroui marion.kerioui@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

**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

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