**Scientific Program (June 28-June 30)**

**June 28, 8:00-9:30**

**Session 24CHIKT1: Opening Ceremony and Keynote Lecture 1&2**

**Room: JINGCHU HALL**

**Organizer: ICSA China Conference Organizing Committee.**

**Chair: ICSA China Conference Organizing Committee.**

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| 8:00 | Welcome and Opening Ceremony  Chair: Hong Qin |
| 9:30 | Robust Knockoffs Inference with Coupling  ♦*Yingying Fan*  University of Southern California  Chair: Xinping Cui |
| 10:30 | Deep regression learning with optimal loss function  ♦*Huanzhen Lin*  Southwestern University of Finance and Economics  Chair: Xinping Cui |

**June 28, 13:00-14:40**

**Session 24CHI6: Advanced Statistical Methods for Medical Data Analysis**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Jing Zhou

Chair: Jing Zhou

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| 13:00 | Modeling and Estimating a Threshold Effect: An Application to Improving Cardiac Surgery Practices  ♦*Guangyu Yang*1*, Baqun Zhang*2*, Jonathan Haft*3*, Robert Hawkins*3*, David Sturmer*3*, Donald Likosky*3，*Min Zhang*3*.*  1Renmin University of China，2Shanghai University of Finance and Economics， 3University of Michigan |
| 13:25 | Advances and Opportunities in Radiomics for Clinical Cancer Diagnosis and Treatment  ♦*Mengjie Fang*1 *and Di Dong*2  1Beihang University， 2Chinese Academy of Sciences |
| 13:50 | Statistical Consolidation of Multiple Noisy Crowd Labels with Confidence  ♦*Qianhan Zeng*1*, Rui Pan*2*，Hansheng Wang*1  1Peking University， 2Central University of Finance and Economics |
| 14:15 | Bayesian Scalar-on-Image Regression with the Spatially Varying Neural Network Prior  ♦*Ben Wu*1*, Keru Wu*2，*Hansheng Wang*3  1Renmin University of China， 2Duke University， 3University of Michigan |

**Session 24CHI28: Designs for Computer Experiments**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Min-Qian Liu

Chair: Yongdao Zhou

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| 13:00 | Construction of Orthogonal-MaxPro Latin Hypercube Designs  *Yaping Wang*1*, Sixu Liu*1， ♦*Qian Xiao*3*.*  1East China Normal University， 2Shanghai Jiao Tong University |
| 13:25 | Selecting Strong Orthogonal Arrays by Linear Allowable Level Permutations  ♦*Guanzhou Chen*1 *，* *Boxin Tang*2*.*  1Nankai University，2Simon Fraser University. |
| 13:50 | Grouped Orthogonal Arrays for Computer Experiments  ♦*Wenlong Li*1 and *Jian-Feng*2, Peter Chien3.  1Beijing Jiaotong University, 2 Nankai University, 3University of Wisconsin-Madison |
| 14:15 | Optimal Subsampling for Linear Mixed Models  *Jiaqing Zhu*, *LinWang*, ♦*Fasheng Sun*  Northeast Normal University, Purdue University, Northeast Normal University |

**Session 24CHI34: High Dimensional Data Analysis**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Juan Hu

Chair: Yichao Wu

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| 13:00 | Semiparametric Estimation of Non-Ignorable Missingness with Refreshment Sample  ♦*Jing Wang*1*， Elena Graetz*2*.* |
| 13:25 | TBD  ♦*Xu Liu*1 |
| 13:50 | A Unified Approach to Variable Selection for Partially Linear Models  *Youhan Lu*1, *Yushen Dong*1, ♦*Juan Hu*2 ， *Yichao Wu*1.  1University of Illinois Chicago， 2DePaul University. |
| 14:15 | Paralinear Distance and Its Algorithm for Hierarchical Clustering of High-Dimensional Discrete Variables  *Shuai Wang1, Lizhu Hao1,* ♦*Xiaofei Wang1, Jianhua Guo2*  1KLAS and School of Mathematics and Statistics, Northeast Normal University 2School of Mathematics and Statistics, Beijing Technology and Business University |

**Session 24CHI41: Lifetime Data Analysis**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Mei-Ling Ting

Chair: Xingqiu Zhao

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| 13:00 | An Instrumental Variable Approach for the Doubly Robust Estimation of Average Treatment Effects in Time-to-Event Data with Unmeasured Confounding  ♦*Chung-Chou Chang*1*， Runjia Li*1*.*  1University of Pittsburgh |
| 13:25 | Semiparametric Additive Hazards Models for Recurrent Gap Times in The Presence of a Terminal Event: An Application to a Recurrent Thyroid Cancer Study  *Yong Huang*1, *Deng-Huang Su*2, ♦*Shu-Hui Chang*1.  1National Taiwan University,2Ming-Ren Clinic. |
| 13:50 | First-hitting-time Threshold Regression for Longitudinal Time-to-event Data  ♦*Mei-Ling Ting*1 *and George Whitmore*2  1University of Maryland College Park 2McGill University |
| 14:15 | Efficient Auxiliary Information Synthesis for Cure Rate Model  *Jie Ding*1, ♦*Jialiang Li*2 *and Xiaoguang Wang*1.  1Dalian University of Technology， 2National University of Singapore. |

**Session 24CHI53: New Nonparametric and Dimension Reduction Methods for Causal Inference and Clustering Analysis**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Shujie Ma

Chair: Shujie Ma

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| 13:00 | An Exhaustive Selection of Sufficient Adjustment Sets for Causal Inference  ♦*Wei Luo*1*, Fei Qin*2 *and Li-Xing Zhu*3*.*  1Zhejiang University 2HongKong Baptist University 3Beijing Normal University. |
| 13:25 | A Bayesian Nonparametric Approach for Handling Item and Examinee Heterogeneity In Assessment Data  ♦*Guanyu Hu*1  1The University of Texas Health Science Center at Houston |
| 13:50 | Inference of Continuous Treatment Effects in Large-scale Observational Data  ♦*Shujie Ma*1  1UC-Riverside |
| 14:15 | Kernel-based Decentralized Policy Evaluation for Reinforcement Learning  *Jiamin Liu*1 ，♦*Heng Lian*2  1University of Science and Technology Beijing, 2City University of Hong Kong |

**Session 24CHI57: Public Health Practices Under Data Science**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Catherine Liu

Chair: Catherine Liu

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| 13:00 | Blockchain-Enabled Social Media Network for Mitigating Misinformation Spread  ♦*Rui Luo*1*, Vikram Krishnamurthy*2*， Erik Blasch*3*.*  1City University of Hong Kong 2Cornell University 3Air Force Research Laboratory |
| 13:25 | Unlocking the Potential of Statistical Engineering in Precision Healthcare  ♦*Li Tang*1  1St. Jude Children's Research Hospital |
| 13:50 | Survival Bandits  ♦*Yinghao Pan*1*, Eric Labe*2 *， Yingqi Zhao*3  1University of North Carolina at Charlotte， 2Duke University， 3Fred Hutchinson Cancer Center |
| 14:15 | On Mixed Sampling under Unidentified Nonpaprametric Models: Application to the Transformation Model  *Chong Zhong*1, *Jin Yang*2, *Junshan Shen*3, ♦*Catherine Liu*1, *Zhaohai Li*4  1The Hong Kong Polytechnic University,  2Enice Kennedy Shriver National Institute of Child Health and Human Development, NIH, USA，3Capital University of Economics and Business, China，4Geoge Washington University, USA. |

**Session 24CHI67: Recent Advances in Modeling Single-Cell Data**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Yang Ni

Chair: Qiwei Li

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| 13:00 | Identify Causal Gene Regulation Using Observational Single-Cell Data  ♦*Yang Ni*1*.*  1Texas A&M University |
| 13:25 | Detecting Circadian Rhythmicity by Single-Cell Multiomics  *Anthony Tong*1*, Jerome Menet*1*，* ♦*Yuchao Jiang* 1  1Texas A&M University |
| 13:50 | Regression Analysis for Single-cell RNA-seq Data  ♦*Fangda Song*1*, Kevin Y. Yip*2 *， Yingying Wei*1  1The Chinese University of Hong Kong 2Sanford Burnham Prebys Medical Discovery Institute |
| 14:15 | Exploring Advanced Frontiers in Single-Cell Bioinformatics: Moving Beyond Differential Expression Analysis  ♦*James Cai*1  1Texas A&M University |

**Session 24CHI70: Recent Advances in Network**

**Data Analysis**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Ting Yan

Chair: Binyan Jiang

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| 13:00 | Privacy-Protected Spatial Autoregressive Model  ♦*Danyang Huang*1*, Ziyi Kong*1*, Shuyuan Wu*2 *， Hangsheng Wang*3  1Renmin University of China， 2Shanghai University of Finance and Economics 3Peking University |
| 13:25 | Testing Degree Heterogeneity in Directed Networks  ♦*Lu Pan*1*, Ting Yan*1 *， Qiuping Wang*2  1 Central China Normal University， 2Zhaoqing University |
| 13:50 | Network-Guided Feature Selection and Downstream Applications  ♦*Wanjie Wang*1*， Tao Shen*1  1National University of Singapore |
| 14:15 | A Two-Way Heterogeneity Model for Dynamic Networks  ♦*Binyan Jiang*1*, Chenlei Leng*2 *, Ting Yan*3 *, Qiwei Yao*4 *，Xinyang Yu*1  1 The Hong Kong Polytechnic University， 2 University of Warwick， 3 Central China Normal University， 4London School of Economics |

**Session 24CHI72: Recent Advances in Statistical Genetics and Genomics**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Wei Li

Chair: Wei Li

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| 13:00 | A Knockoff Framework for the Identification of Putative Causal Variants in Genome-Wide Association Studies with Trio Design  ♦*Yi Yang*1*, Chen Wang*2*, Linxi Liu*3*, Joseph Buxbaum*4 *，* *Zihuai He*5*.*  1City University of Hong Kong, 2Columbia University, 3University of Pittsburgh, 4Icahn School of Medicine at Mount Sinai and 5Stanford University |
| 13:25 | Improving Cell Type Deconvolution Accuracy Using Personalized Reference Profiles  ♦*Hao Feng*1  1 Case Western Reserve University |
| 13:50 | Continually Adapting Pre-Trained Language Model to Universal Annotation of Single-Cell Rna-Seq Data.  *Hui Wan*1*, Musu Yuan*1*, Yiwei Fu*1 *，* ♦*Minghua Deng*  1Peking University |
| 14:15 | Inferring Cell Division Tree from Single-Cell Lineage Barcode and Single-Cell Transcriptomic Data.  ♦Jiajun Zhang1， Xiaochen Yu1.  1Sun Yat-sen University. |

**Session 24CHI81: Recent Advances in Transfer Learning and Domain Generalization**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Sai Li

Chair: Huazhen Lin

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| 13:00 | Importance Weighted Transfer Learning For High-dimensional Generalized Linear Models  *Zejing Zheng*1*, Shengbin Zheng*1*，* ♦*Junlong Zhao*1  1Beijing Normal University |
| 13:25 | Structural Transfer Learning of Non-Gaussian Dag with Local Similarity  ♦*Mingyang Ren*1*, Xin He*2*，Junhui Wang*2  1 The Chinese University of Hong Kong， 2 Shanghai University of Finance and Economics |
| 13:50 | Knowledge Transfer across Multiple Principal Component Analysis Studies  *Zeyu Li*1*, Kangxiang Qin*2*,* ♦*Yong He*2*, Wang Zhou*1 *and Xinsheng Zhang*1  1Fudan University，2Shandong University， 3National University of Singapore |
| 14:15 | Domain Generalization via Low-rank Tensor Completion with Second-Order Convergence  ♦*Taoning Li*1，*Sai Li*1.  1Renmin University of China. |

**Session 24CHI52: New Methods on Statistical Learning with Survival Data**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Limin Peng

Chair: Yijuan Hu

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| 13:00 | Nonparametric Testing for Survival Data with Time-Dependent Covariates  *Ying Cui*1*,* ♦*Limin Peng*1*，HuiChuan Lai*2*.*  1Emory University，2University of Wisconsin-Madison |
| 13:25 | Imputation-Based Q-Learning for Optimizing Dynamic Treatment Regimes with Competing Risk Outcomes  *Lingyun Lyu*1*,* ♦*Yu Cheng*2*， Abdus Wahed* 3  1Bristol Myers Squibb， 2University of Pittsburgh， 3University of Rochester |
| 13:50 | Estimation of Average Treatment Effect for Survival Outcomes with Continuous Treatment in Observational Studies  *Triparna Poddar*1*,* ♦*Qi Zheng*1*, Michael Egger*1*， Maiying Kong*1  1University of Louisville |
| 14:15 | Efficient Estimation for the Accelerated Failure Time Model with Auxiliary Aggregate Information  ♦*Huijuan Ma*1*, Yukun Liu, Donglin Zeng and Yong Zhou* |

**Session 24CHI93: Recent Developments of Bayesian Methods**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Guanyu Hu

Chair: Guanyu Hu

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| 13:00 | Enhancing Decision Making with Causal Inference and Unmeasured Confounders in a Bayesian Framework  *Wei Jin*1, *Yang Ni*2 ， ♦*Yanxun Xu*1*.*  1Johns Hopkins University， 2Taxas A&M University |
| 13:25 | Horseshoe Priors for Sparse Dirichlet-Multinomial Models  ♦*Yuexi Wang*1 ，*Nicholas Polson*2*.*  1University of Illinois Urbana-Champaign， 2University of Chicago |
| 13:50 | Tree-Regularized Bayesian Latent Class Analysis: Improving Weakly Separated Dietary Pattern Subtyping in Small-Sized Subpopulation  *Mengbing Li*1, *Briana Stephenson*2 *and* ♦*Zhenke Wu*1  1University of Michigan，2Harvard University |
| 14:15 | A Nonstationary Soft Partitioned Gaussian Process Model  *Zhao Tang Luo*1, ♦*Huiyan Sang*1*， Bani Mallick*1  1Texas A&M University |

**Session 24CHI99: Reinforcement Learning from a Statistical Perspective**

Room: 13-DANGUI HALL（丹桂厅）

Organizer: Yuxin Chen

Chair: Yuxin Chen

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| 13:00 | Statistical- and Communication-Efficient Federated cReinforcement Learning  ♦*Yuejie Chi*1*.*  1Carnegie Mellon University |
| 13:25 | Post Reinforcement Learning Inference  *Vasilis Syrgkanis*1 ， ♦*Ruohan Zhan*2*.*  1Stanford University， 2Hong Kong University of Science and Technology |
| 13:50 | Sample Complexity of Inventory Control with Fixed Ordering Cost  ♦*Xiaoyu Fan*1*，Zhengyuan Zhou*1.  1New York University. |

**Sess Session 24CHI119: Statistical Methods and Applications for Healthy Ageing**

Room: 14-YICHANG HALL（宜昌厅）

Organizer: Xiaojun Wang

Chair: Tao Sun

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| 13:00 | Examining The Impact of Demographic Factors on Disability in Chinese Elderly Using a Semiparametric Copula Model  ♦*Tao Sun*1, *Yunlong Li*1, *Zhengyan Xiao*1, *Ying Ding*2 *， Xiaojun Wang*1.  1Renmin University of China 2University of Pittsburgh |
| 13:25 | Polygenic Risk Score for Disability Development in Elderly  ♦*Huiping Zheng*1, *Tao Sun*1*， Xiaojun Wang*1.  1Renmin University of China |
| 13:50 | A Copula-based Semiparametric Model for Predicting Life Expectancy and Healthy Life Expectancy  ♦*Yunlong Li*1, *Xiaojun Wang*1 *，Tao Sun*1  1Renmin University of China |
| 14:15 | The Difference of Health-Adjusted Life Expectancy Between China and Both the United States and Japan  ♦*Yueming Jin*1*， Xiaojun Wang*1  1Renmin University of China |

**June 28, 15:00-16:40**

**Session 24CHI7: Advanced Statistical Methods in the Analysis of High-Dimensional and Complex Data**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Mengyun Wu

Chair: Mengyun Wu

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| 15:00 | Ensemble Parameter-Transfer by Optimal Model Averaging  ♦*Xiaonan Hu*1*，Baqun Zhang*2.  1Capital Normal University， 2Chinese Academy of Sciences |
| 15:25 | Network and Covariate Adjusted Response-adaptive Design  ♦*Hao Mei*1*, Jiaxin Xie*1*, Jiaxin Xie*2， *Yichen Qin*1*.*  1Renmin University of China, 2University of Cincinnati |
| 15:50 | Hierarchical Multi-Label Classification with Gene-Environment Interactions in Disease Modeling  *Jingmao Li1, Qingzhao Zhang*1*, Shuangge Ma*2*, Kuangnan Fang*1， *♦Yaqing Xu3*  1Xiamen University， 2Yale University， 3Shanghai Jiao Tong University |
| 16:15 | Deep Learning-Based Single-cell Data Integration Using Iterative Cell Matching and Structure Preservation Constrains  *Shuntuo Xu1, Zhou Yu1 , ♦Jingsi Ming1*  1East China Normal University |

**Session 24CHI33: Go No Go Decision Making in Clinical Trails**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Hongjie Deng

Chair: Hongjie Deng

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| 15:00 | Go/No Go Design Based on Dual Criterion  ♦*Chao Cheng*1*, Haolin Sun*1*, Jonathan Haft*1 *，Robert Hawkins*1*.*  1Simcere Zaiming Pharmaceutical Co, Ltd. |
| 15:25 | From Phase II to III: An Application of Success Probability Estimation in Oncology  ♦*Ligiang Geng*.  Boehringer Ingelheim. |
| 15:50 | Bayesian Method Used in Go No-Go Decision  ♦*Hairui Hua*1 |
| 16:15 | Restart Trial Design: Two-Stage Seamless Transition Design with Operational Considerations  *Min Yi*1, ♦*Bin Zhuo*2 ，*Freda Cooner*3. |

**Session 24CHI38: Inference for Paired Comparision Data and Clustering**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Ting Yan

Chair: Ting Yan

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| 15:00 | Heteroskedastic Tensor Clustering  *Yuchen Zhou*1*，* ♦*Yuxin Chen*1*.*  1University of Pennsylvania |
| 15:25 | Inference in a Generalized Bradley-Terry Model for Paired Comparisons with Covariates and a Growing Number of Subjects  ♦*Ting Yan*1  1Central China Normal University |
| 15:50 | Structure Recognition for Time-varying Comparisons  ♦*Nan Lu*1, *Jian Shi*1*， Xin Yutian*2.  1Academy of Mathematics and Systems Science， 2University of Minnesota. |
| 16:15 | Statistical Inference for Pairwise Comparison Models  ♦*Ruijian Han*1, *Wenlu Tang*2 ， *Yiming Xu*3.  1The Hong Kong Polytechnic University， 2University of Alberta and 3University of Waterloo. |

**Session 24CHI90: Recent Developments in Longitudinal Data Analysis**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Xingqiu Zhao

Chair: Xingqiu Zhao

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| 15:00 | Multivariate Dependence Modeling of Some Data Sets in Continuous Space and Discrete Time  ♦*Juan Du*1*， Rigele Te* 1  1Kansas State University |
| 15:25 | A Functional Correlation Based Model-free Feature Screening Method for Ultrahigh Dimensional Longitudinal Data  *Yexin Zhang*1*，* ♦*Shirong Deng*1  1Wuhan University |
| 15:50 | An Optimal Two-Step Estimation Approach for Two-Phase Studies  ♦*Kin Yau Wong*1， *Qingning Zhou*2  1The Hong Kong Polytechnic University， 2The University of North Carolina at Charlotte |
| 16:15 | Scalable Regression Analysis for Non-Normal Longitudinal Data in the Presence of Informative Observation Times with Application to EHR Data  ♦*Dayu Sun*  Indiana University |

**Session 24CHI91: Recent Developments in Machine Learning Theory and Application**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Shujie Ma

Chair: Shujie Ma

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| 15:00 | Estimating Heterogeneous Survivor Causal Effects Using Bayesian Machine Learning  ♦*Guangyu Tong*1*, Xinyuan Chen*2*, Michael Harhay*3*， Fan Li*1  1Yale University，2Mississippi State University， 3University of Pennsylvania |
| 15:25 | Generalization and Risk Bounds for Recurrent Neural Networks  ♦*Xuewei Cheng*1*, Ke Huang*2*， Shujie Ma*2.  1Hunan Normal University， 2University of California |
| 15:50 | Unraveling Projection Heads in Contrastive Learning: Insights from Expansion and Shrinkage  *Yu Gui*1*,* ♦*Cong Ma*1*， Yiqiao Zhong*2.  1University of Chicago， 2University of Wisconsin-Madison |
| 16:15 | Averaged Transfer Learning for High-Dimensional Generalized Linear Models with Auxiliary Model Uncertainty  ♦*Xinyu Zhang*1.  1Academy of Mathematics and Systems Science Chinese Academy of Sciences. |

**Session 24CHI61: Recent Advances in Bayesian Modeling of Spatially Resolved Transcriptomics Data**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Qiwei Li

Chair: Qiwei Li

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| 15:00 | AI-Powered Bayesian Methods for Spatial Transcriptomics Data Analysis  ♦*Qiwei Li*1  1The University of Texas at Dallas |
| 15:25 | Bayesian Integrative Region Segmentation in Spatially Resolved Transcriptomic Studies  *Yinqiao Yan*1*，* ♦*Xiangyu Luo*1.  1Renmin University of China |
| 15:50 | Generalized Bayesian nonparametric clustering framework for spatial transcriptomics data  ♦*Bencong Zhu*1*, Xiaodan Fan*1*， Qiwei Li*2  1The Chinese University of Hong Kong， 2The University of Texas at Dallas |

**Session 24CHI59: Recent Advance in Analysis of Network and Matrix Time Series Data**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Yingying Ma

Chair: Yingying Ma

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| 15:00 | Matrix Quantile Factor Model  *Xin-Bing Kong1, Yong-Xin Liu1,* ♦*Long Yu2, Peng Zhao3*  1Nanjing Audit University，2Shanghai University of Finance and Economics， 3Jiangsu Normal University |
| 15:25 | Supervised Centrality via Sparse Network Influence Regression  ♦*Yingying Ma*, *Wei Lan*, *Chenlei Leng*, *Ting Li*, *Hansheng Wang* |
| 15:50 | Auxiliary Learning and its Statistical Understanding  ♦*Hanchao Yan*1, *Feifei Wang*2, *Chuanxin* *Xia*3, *Hansheng Wang*4  1School of Statistics, Renmin University of China, Beijing, China, 2Center for Applied Statistics, Renmin University of China, Beijing, China; School of Statistics, Renmin University of China, Beijing, China, 3Chinese Academy of International Trade and Economic Cooperation, Ministry of Commerce People's Republic of China, Beijing, China, 4Guanghua School of Management, Peking University, Beijing, China |
| 16:15 | Network-Based Modeling of Emotional Expressions for Multiple Cancers Via a Linguistic Analysis of an Online Health Community  ♦*Xinyan Fan* |

**Session 24CHI77: Recent Advances in Statistical Methods for Complex Time-To-Event Data**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Jing Qian

Chair: Yubo Luo

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| 15:00 | Enhancing Long-term Survival Prediction with Multiple Short-term Events: Landmarking with A Flexible Varying Coefficient Model  ♦*Wen Li1, Qian Wang1, Jing Ning2, Jing Zhang1, Zhouxuan Li1, Amirali Tahanan1 ，Mohammad H. Rahbar1.*  1The University of Texas Health Science Center， 2University of Texas MD Anderson Cancer Center |
| 15:25 | Estimation and Regression Analysis with Sequentially Truncated Data  ♦*Jing Qian1, Jingyao Hou1, Erik Parner2, Morten Overgaard2，Rebecca Betensky3.*  1University of Massachusetts Amherst, USA， 2Aarhus University, Denmark， 3New York University, USA |
| 15:50 | Confidence Intervals for High-Dimensional Censored Quantile Regression  *Tony SIT1and* ♦*Yu GUO1.*  1The Chinese University of Hong Kong |
| 16:15 | Optimal Treatment Regimes in the Presence of a Cure Fraction  ♦*Cunjie Lin* |

**Session 24CHI80: Recent advances in Survival Data Modeling**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Yingwei Peng

Chair: Yingwei Peng

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| 15:00 | Parametric and Semiparametric Estimation Methods for Survival Data Under a Flexible Class of Models  ♦*Wenqing He*1*，Grace Yi* 1.  1University of Western Ontario |
| 15:25 | Identification of Prognostic and Predictive Subgroups for Clustered Survival Data  ♦*Ye He*1, *DongSheng Tu*2, *Liu Liu*3 *and* *Ling Zhou*4, Zhongwen Zhang  1Sichuan Normal University, 2Queen’s University, 3College of Chengdu University of Technology， 4Southwestern University of Finance and Economics. |
| 15:50 | Integrative Approach in Survival Analysis Combining Probability and Non-Probability Samples  ♦*Hua Shen*1*，Zheng Yu*1.  1University of Calgary |

**Session 24CHI102: Semi-Supervised and Multi-Task Learning**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Pengkun Yang

Chair: Huazhen Lin

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| 15:00 | Revisiting Scalarization in Multi-Task Learning: A Theoretical Perspective  *Yuzheng Hu*1, *Ruicheng Xian*1, *Qilong Wu*1 *Qiuling Fan*1, *Lang Yin*1, ♦Han Zhao.  1University of Illinois Urbana-Champaign |
| 15:25 | Soft Phenotyping for Sepsis Via Ehr Time-Aware Semi-Supervised Soft Clustering  ♦*Anru Zhang*1.  1Duke University |
| 15:50 | How Does Semi-Supervised Learning with Pseudo-labelers Work? A Case Study  *Yiwen Kou*1, *Zixiang Chen*1,♦*Yuan Cao*2 *and Quanquan Gu*1.  1University of California, Los Angeles 2The University of Hong Kong |
| 16:15 | Distributed Semi-Supervised Statistical Learning  *Jiyuan Tu*1, *Weidong Liu*2, ♦*Xiaojun Mao*2  1Shanghai University of Finance and Economics, 2Shanghai Jiao Tong University |

**Session 24CHI31: Emerging Theory and Methods in Data Science**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Ping Ma

Chair: Cheng Meng

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| 15:00 | Estimation of Over-parameterized Models from an Auto-Modeling Perspective.  *Yiran Jiang*1 and ♦*Chuanhai Liu*2.  1Department of Biostatistics, Yale University Chuanhai Liu, 2Department of Statistics, Purdue University |
| 15:25 | Knowledge Cascade: Reverse Knowledge Distillation on Nonparametric Multivariate Functional Estimation  ♦*Luyang Fang*1, *Haoran Lu*1, *Yongkai Chen*1, *Wenxuan Zhong*1, *Ping Ma*1.  1University of Georgia |
| 15:50 | WEST: An Ensemble Method for Spatial Transcriptomics Analysis  ♦*Jiazhang Cai*1, *Huimin Cheng*1, *Shushan Wu*1, *Guo-Cheng Yuan*2, *Wenxuan Zhong*1, *Ping Ma*1  1University of Georgia, 2Icahn School of Medicine at Mount Sinai |
| 16:15 | Pseudo-Labeling for Kernel Ridge Regression under Covariate Shift  ♦*Kaizheng Wang*1  1Columbia University |

**Session 24CHI64: Recent Advances in Design of Experiments and Subsampling**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Min-Qian Liu

Chair: Jian-Feng Yang

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| 15:00 | Cyclic Bayesian D-Optimal Augmented Definitive Screening Designs  ♦*Chunyan Wang1, Jinyu Yang2, Min-Qian Liu2*  1Renmin University of China, 2Nankai University |
| 15:25 | Efficient Model-Free Subsampling Method for Massive Data  *Zheng Zhou*1, *Zebin Yang*2, *Aijun Zhang*2, ♦*Yongdao Zhou*1  1Nankai University, 2The University of Hong Kong, |
| 15:50 | Sequential Order-of-addition Experiments  *Haojie Man*1 and ♦*Jianbin Chen*1.  1Beijing Institute of Technology. |
| 16:15 | Stratification Pattern Enumerator and Its Applications  ♦*Ye Tian*1, *Hongquan Xu*2  1Beijing University of Posts and Telecommunications, 2UCLA |

**Session 24CHI117: Statistical Learning from a Modern Perspective**

Room: 13-DANGUI HALL（丹桂厅）

Organizer: Yuxin Chen

Chair: Yuxin Chen

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| 15:00 | Towards Non-Asymptotic Convergence for Diffusion-Based Generative Models  ♦*Gen Li*1, *Yuting Wei*2，*Yuxin Chen*2.  1The Chinese University of Hong Kong , 2University of Pennsylvania. |
| 15:25 | Transfer Learning for Contextual Multi-Armed Bandits  *♦Changxiao Cai1, T. Tony Cai2, Hongzhe Li2*  1University of Michigan, 2University of Pennsylvania |
| 15:50 | Generative Model for Distributionally Robust Optimization  *Chen Xu*1, *Jonghyeok*  Lee1, *Xiuyuan* *Cheng*2， ♦*Yao Xie*3.  1Georgia Institute of Technology , 2Duke University, 3Georgia Institute of Technology |
| 16:15 | Contractive Diffusion Models and Score Matching by Continuous Reinforcement Learning  ♦*Wenpin Tang*  Columbia University |

**Session 24CHI89: Recent Developments in Experimental Designs**

Room: 14-YICHANG HALL（宜昌厅）

Organizer: Po Yang

Chair: Po Yang

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| 15:00 | Bayesian Optimal Designs for Linear Regression with High Predictive Efficiency in the Event of Model Uncertainty  *Shanika Basnayake*1*,* ♦*Po Yang*1 *and Chang-Yun Lin*2  1University of Manitoba，2National Chung Hsing University |
| 15:25 | Design Construction and Model Selection for Small Mixture-Process Variable Experiments with High-Dimensional Model Terms  ♦*Chang-Yun Lin*1*，Kashinath Chatterjee*2  1 National Chung Hsing University，2Augusta University |
| 15:50 | Robust Active Learning for Nonlinear Regression  ♦*Xiaojian Xu*1  1Brock University |
| 16:15 | Practical Design Considerations for Phase III Randomized Controlled Trials in Immuno-Oncology: A Real-Life Example  ♦*Zhouzhao Zhan*1, *Lina Wang*1, *Dongmei Lu*1 and *Mingxiu Hu*1.  1Akesobio Inc. |

**June 28, 17:00-18:40**

**Session 24CHI73: Recent Advances in Statistical Inference on Data Integration**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Zhengyuan Zhu

Chair: Zhengyuan Zhu

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| 17:00 | Statistical Inference with Singular Propensity Score  ♦*Kosuke Morikawa1，Keisuke Yano2.*  1Osaka University， 2Institute of Statistical Mathematics |
| 17:25 | Combining Probability and Non-probability Samples Using Semi-parametric Quantile Regression and a Non-parametric Estimator of the Participation Probability  *Emily Berg1, Sixia Chen2，*♦*Cindy Yu1.*  1Iowa State University 2University of Oklahoma |
| 17:50 | Inductive Matrix Completion through Transfer Learning  Xiaojun Mao1, ♦Hengfang Wang2, Zhonglei Wang3  1Shanghai Jiao Tong University, 2Fujian Normal University, 3Xiamen University |
| 18:15 | Estimation of Treatment Effects without Ignorability Using Observational Studies  ♦*Guoliang Ma*1, *Cindy Yu*2，*Zhonglei Wang*1  1Xiamen University, 2Iowa State University, |

**Session 24CHI69: Recent Advances in Modern Data Science**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Ping Ma

Chair: Cheng Meng

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| 17:00 | Partially-Global Fréchet Regression  *Danielle Tucker，* ♦*Yichao Wu.* |
| 17:25 | MR-SPLIT: a Robust Method in One-sample Mendelian Randomization Studies  *Ruxin Shi1, Ling Wang1, Stephen Burgess2，*♦*Yuehua Cui1.*  1Michigan State University，2University of Cambridge |
| 17:50 | Tight Community Detection  *Jiayi Deng1, Xiaodong Yang2, Jun Yu3, Jun Liu2, Zhaiming Shen4 and* ♦*Huimin Cheng5.*  1Renmin University of China，2Harvard University，3Beijing Institute of Technology，4University of Georgia ，5Boston University |
| 18:15 | Online Selective Conformal Inference  *Yajie Bao1, Yuyang Huo1, Haojie Ren1, ♦Changliang Zou2*  1Shanghai Jiao Tong University, 2Nankai University |

**Session 24CHI66: Recent Advances in High-Dimensional Statistical Inference**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Jin Jin

Chair: Jin Jin

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| 17:00 | Direct Estimation and Inference of Higher-level Correlations from Lower-level Data  ♦*Yue Wang1, Dan Cheng2， Haoran Shi2*  1Colorado School of Public Health 2Arizona State University |
| 17:25 | Asset Splitting Algorithm for Ultrahigh Dimensional Portfolio Selection And Its Theoretical Property  *Zhanrui Cai1, Changcheng Li2, Jiawei Wen3，* ♦*Songshan Yang4.*  1The University of Hong Kong， 2Dalian University of Technology， 3Meta， 4Renmin University of China |
| 17:50 | Network-Informed High-Dimensional Analysis Framework for Gene Set Discovery and Disease Risk Prediction  *Yihao Wang1, Yue Wang2，* ♦*Jin Jin1*  1Department of Biostatistics, Epidemiology and Informatics, University of Pennsylvania，2Department of Biostatistics and Informatics, University of Colorado Anschutz Medical Campus |
| 18:15 | Nonparametric Composition-on-composition Regression Analysis for High Dimensional Microbiome Data  ♦*Xiang Zhan*  Peking University |

**Session 24CHI65: Recent Advances in High Dimensional Complex Data Analysis**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Yue Cui

Chair: Chenlu Ke

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| 17:00 | The Identifiability of Copula Models of Competing Risks Data with Exponentially Distributed Margins  ♦*Antai Wang1.*  1New Jersey Institute of Technology |
| 17:25 | A Tree-Based Conformal Prediction Method for Multi-label Classification  *Chhavi Tyagi1，* ♦*Wenge Guo1.*  1New Jersey Institute of Technology |
| 17:50 | Npclust: A New Horizon in Visualizing and Testing Clustered Data Effect Sizes  ♦*Yue Cui1，Solomon Harrar2*  1Missouri State University， 2University of Kentucky |

**Session 24CHI60: Recent Advances and Challenges in Complex Statistical Modeling and Data Analysis**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Yuehan Yang

Chair: Yuehan Yang

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| 17:00 | A Model-free Multivariate Non-fecursive Feature Elimination for Feature Selection on High-dimensional Complex Multiple Response Data  ♦*Siwei Xia1.*  1College of Mathematics and Physics, Chengdu University of Technology |
| 17:25 | Non-zero Block Selector: A Linear Correlation Coefficient Measure for Blocking-selection Models  *Weixiong Liang1，* ♦*Yuehan Yang1.* 1Central University of Finance and Economics |
| 17:50 | Ensemble Methods for Testing a Global Null  ♦*Yaowu Liu*, *Zhonghua Liu*, *Xihong Lin* |
| 18:15 | Maximum Entropy Estimator for Hidden Markov Models: Reduction to Dimension 2  ♦*Shulan Hu* |

**Session 24CHI54: New Technology and Quantitative Tools in Drug Development**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Fan Wu

Chair: Wentian Guo

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| 17:00 | Modeling Time-to-event Data with Brms Package  ♦*Cong Zhang1, Sebastian Weber1 and Matt Whiley1.*  1Novartis |
| 17:25 | Advanced Adaptive Confirmatory Clinical Trial Designs with R  ♦*Xin Zhang1.*  1Pfizer Inc. |
| 17:50 | Statistical Considerations for One Subgroup and Overall Population Being the Primary Analysis Populations  *Yiqi Zhao1, Ping Yan2 ，* ♦*Xinfeng Yang3*  1Guangzhou Culture and Tourism Industry Promotion Center, Guangzhou Tourism Information and Assistance Service Center， 2Department of Data Science, Shanghai Junshi Biosciences Co., Ltd.， 3Department of Biometrics, Hengrui Pharmaceuticals, Inc. |
| 18:15 | Characteristics of Regional Consistency in Multi-Regional Clinical Trials with Group Sequential Designs  ♦*Yanxin Jiang*, *Xiaoting Gao*, *Qingjia Ke* and *Man Zhao*. |

**Session 24CHI47: New Development in Causal Discovery and Biomarker Identification for Precision Medicine**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Muxuan Liang

Chair: Muxuan Liang

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| 17:00 | Causal Inference Meets Non-Sparse High-dimensional Confounders: A Remedy Using Feature Aggregation and Data Integration  ♦*Jinyuan Liu1.*  1Vanderbilt University |
| 17:25 | A General Framework for Incorporating Identification Uncertainty in Individualized Treatment Rules  ♦*Muxuan Liang1, Ting Ye2， Ying-Qi Zhao3.*  1University of Florida， 2University of Washington， 3Fred Hutchinson Cancer Center |
| 17:50 | A Bayesian Framework for Detecting Circadian Biomarkers in Transcriptomic Data  *Lingsong Meng1, Haocheng Ding1, Yutao Zhang1，* ♦*Zhiguang Huo1.*  1University of Florida |
| 18:15 | DEMO: Dose Exploration, Monitoring, and Optimization Using a Biological and Clinical Outcomes  ♦*Ruitao Lin1.*  1The University of Texas MD Anderson Cancer Center. |

**Session 24CHI51: New Methods in Nonparametric Statistics with Applications to Time Series**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Yichuan Zhao

Chair: Yichuan Zhao

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| 17:00 | Oracle-efficient M-estimation for Single-index Models with a Smooth Simultaneous Confidence Band  ♦*Li Cai1, Lei Jin2, Jiuzhou Miao1， Suojin Wang2.*  1Zhejiang Gongshang University， 2Texas A&M University |
| 17:25 | Jackknife Empirical Likelihood for the Correlation Coefficient with Additive Distortion Measurement Errors  *Da Chen*, ♦*Linlin Dai*, *Yichuan Zhao* |
| 17:50 | Testing Serial Dependence or Cross Dependence for Time Series with Underreporting  *Keyao Wei,* *Lengyang Wang*， ♦*Yingcun Xia* |
| 18:15 | Tests For Detecting Change in Mean Vector Functions of Multivariate Functional Data with Repeated Observations  *Wei Lin*1, ♦*Zhiping Qiu*1, *Xiaming Tu*2  1Fujian Normal University, 2Huaqiao University |

**Session 24CHI127: Recent Advances in Analysis of Complex Networks Data**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Hui Zhao

Chair: Hui Zhao

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| 17:00 | A Framework for Statistical Inference via Randomized Algorithms  ♦*Zhixiang Zhang1 , Edgar Dobriban2*， *Sokbae Lee3 .*  1University of Macau， 2University of Pennsylvania， 3Columbia University |
| 17:25 | Community-finding Methods Based on the Gaps of Dynamic Interactions for the Complex Network Data  ♦*Xiaobing Zhao1, Yufeng Xia1， Yang Kuo Li1.*  1Zhejiang University of Finance and Economics |
| 17:50 | Hypothesis Testing for General Network Models  *Kang Fu1,* ♦*Jianwei Hu1, Seydou Keita1*  1Central China Normal University |
| 18:15 | The Sparsity Learning of Decentralized Networks with Expectile Regression  ♦*Yu Zhang*  School of Statistics and Mathematics, Zhongnan University of Economics and Law |

**Session 24CHI17: AI in Bioinformatics and Biomedical Applications**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Zhaojun Wang

Chair: Gang Hu

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| 17:00 | Indentify Spatial Domains Using Cell-cell Comunication Information by Graph Convolutional Network  *Huijin Fu*, ♦*Kui Wang*. |
| 17:25 | Prediction on the Functions of Intrinsically Disordered Proteins  ♦*Zhenling Peng*  Shandong University |
| 17:50 | A Quadruplet Unified Framework Enables Analysis of Single Cell Data  ♦*Xiangjie Li*  Changping Laboratory |
| 18:15 | Pre-Symptomatic Detection And Alarming of Covid Using Smartwatch Data  ♦Meng Wang |
| 18:40 | Computing the Role of Splicing Dysregulation by SF3B1-SUGP1-DHX15 Axis in Human Cancer  *Jian Zhang*, *Jindou Xie*, *Ji Huang*, *Xiangyang Liu*, *Ruihong Xu*, *Wojciech Galej*, *Liang Tong*, *James Manley*, ♦*Zhaoqi Liu*. |

**Session 24CHI35: High Dimensional Hypothesis Testing Problems**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Zhaojun Wang

Chair: Long Feng

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| 17:00 | CAST: A Covariate-Assisted Multiple Testing Framework with Sample Splitting  *Yixin Han*1, *Changliang Zou*1, *Lilun Du*2, *Zhaojun Wang*1, ♦Peter Chien  1Nankai University, 2City University of Hong Kong |
| 17:25 | Computationally Efficient and Data-adaptive Change-point Inference in High Dimension  *Guanghui Wang*1, ♦*Long Feng*2  1East China Normal University, 2Nankai University |
| 17:50 | Statistical Inference for Ultrahigh Dimensional Location Parameter Based on Spatial Median  *Guanghui Chen*1, ♦*Liuhua Peng*2, *Changliang Zou*3  1Guangzhou University, 2University of Melbourne, 3Nankai University |
| 18:15 | Algorithm-agnostic Inference after Changepoint Detection  *Yinxu Jia*1, *Jixuan Liu*1, ♦*Guanghui Wang*2, *Changliang Zou*1  1Nankai University, 2East China Normal University |

**Session 24CHI126:** **Strategic Approaches and Methodological Innovations in Early Oncology Trial Designs**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Jun Zhang

Chair: Lin Liu

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| 17:00 | A Model-based Design with a Randomization Scheme Considering Pharmacokinetics Exposure for Dose Optimization in Oncology  ♦*Jun Zhang.* |
| 17:25 | China Dose Confirmation Designs in Early Phase Oncology Trials  ♦*Lusha Wang* |
| 17:50 | Options and Challenges in Early Oncology Designs  ♦*Wentian Guo*1.  1Astrazeneca R&D China |
| 18:15 | MC-Keyboard: A Practical Phase I Trial Design for Targeted Therapies and Immunotherapies Integrating Multiple- Grade Toxicities  ♦*Liyun Jiang*1, *Zhulin Yin*2, *Fangrong Yan*1 *and Ying Yuan*3.  1China Pharmaceutical University， 2Clinical Trials and Statistics Unit, Institute of Cancer Research， 3The University of Texas MD Anderson Cancer Center |

**Session 24CHI18: Analyses of Complex Survival Data**

Room: 13-DANGUI HALL（丹桂厅）

Organizer: Tonghui Yu

Chair: Yifan Cui

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| 17:00 | Parametric Model Checking Based on Weighted Residual Processes with Diverging Number of Predictors  ♦*Yue Hu* |
| 17:25 | Semiparametric Transformation Nonmixture Cure Models for Interval-censored Failure Time Data with Mismeasurement Covariates  ♦*Rong Liu*1, *Yichen Lou*2, *Lei Ge*3,*Chunjie Wang*1  1Changchun University of Technology, 2Jinlin University, 3North East of Normal University. |
| 17:50 | Exploring Causal Effects of Hormone- and Radio-treatments in an Observational Study of Breast Cancer under Semi-competing Risks Setting  ♦*Tonghui Yu*1, *Mengjiao Peng*2, *Yifan Cui*3, *Elynn Chen*4, *Chixiang Chen*5  1Nanyang Technological University, Singapore, 2East China Normal University, China, 3Zhejiang University, China, 4New York University, USA, 5Tulane university |
| 18:15 | A New and Unified Method for Regression Analysis of Interval-censored Failure Time Data under Semiparametric Transformation Models with Missing Covariates  ♦*Yichen Lou*1, *Yuqing Ma*1, *Mingyue Du*1  1Jilin University |

**Session 24CHI128: Some Topics on Probability and Statistics**

Room: 14-YICHANG HALL（宜昌厅）

Organizer: Hui Zhao

Chair: Kang Wang

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| 17:00 | FDR Control for Additive Hazards Model via Data Splitting  ♦*Jinzhao Yu*  School of Statistics and Mathematics, Zhongnan University of Economics and Law |
| 17:25 | Variable Selection in Expectile Regression via Broken Adaptive Ridge  ♦*Mingyuan Shao*  School of Statistics and Mathematics, Zhongnan University of Economics and Law |
| 17:50 | Early Warning of Information Casecades Based on Burst Branching Estimation  *Yanqing Wang*1, ♦*Jinling Liu*1, *Dianni Wang*1.  1Zhongna University of Economics and Law. |
| 18:15 | Limit Theorems for a Supercritical Two-type Decomposable Branching Process in a Random Environment  *Yanqing Wang*1, ♦*Dianni Wang*1, *Jinling Liu*1, *Quansheng Liu*1  1Zhongnan University of Economics and Law |

**June 29, 8:00-9:40**

**Session 24CHI1: Advanced Methods for Data with Heterogeneity**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Yufeng Liu

Chair: Bin Liu

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| 8:00 | Change Point Detection for High-dimensional Linear Models: A General Tail-adaptive Approach  ♦*Bin Liu*1, *Zhengling Qi*2, *Xinsheng Zhang*1 *and Yufeng Liui*3.  1Fudan University，2George Washington University， 3University of North Carolina at Chapel Hill |
| 8:25 | Oracle Change Point Detection and Localizaiton for High-dimensional Graphical Models  ♦*Xianru Wang*1 , *Bin Liu*2, *Xinsheng Zhang*2*，Yufeng Liui*3.  1The Chinese University of Hong Kong， 2Fudan University，3University of North Carolina at Chapel Hill |
| 8:50 | Online Multiple Changepoints Detection with False Discovery Rate Control  *Xiaolong Cui*1, *Haoyu Geng*1,♦*Haojie Ren*2, *Zhaojun Wang*1*，Changliang Zou*1.  1Nankai University， 2Shanghai Jiao Tong University |
| 9:15 | Tensor Additive Quantile Regression  ♦*Wenqi Lu*1, *Zhongyi Zhu*2,*Heng Lian*3  1School of Statistics and Data Science, 2Nankai University, School of Management Fudan University, 3Department of Mathematics City University of Hong Kong |

**Session 24CHI24: Complex Medical Data Analysis**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Hua Liang

Chair: Hua Liang

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| 8:00 | Isease-Specific Enhancement for Biological Networks Improves Drug Repurposing  ♦*Peifeng Ruan.* |
| 8:25 | Semi-parametric Panel Count Model, with Applications to Signal Detection in Post-market Drug Surveillance Systems  ♦*Yizhao Zhou*1, *Ao Yuan*2*，Ming Tan*2.  1AstraZeneca Global R&D (China)， 2Georgetown University |
| 8:50 | Optimal Weighted Random Forests  *Xinyu Chen*1, ♦*Dalei Yu*2, *Xinyu Zhang*3.  1University of Science and Technology of China, 2Xi'an Jiaotong University，3Academy of Mathematics and Systems Science, Chinese Academy of Sciences |
| 9:15 | DiffGR: Detecting Differentially Interacting Genomic Regions from Hi-C Contact Maps  ♦*Huiling Liu*1, *Wenxiu Ma*2  1South China University of Technology, 2University of California, Riverside |

**Session 24CHI45: Moderate Deviation and Inference for Independent and Dependent Data**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Yongcheng Qi

Chair: Yongcheng Qi

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| 8:00 | Some Results on Probabilities of Moderate Deviation  *Deli Li*1, *Yu Miao*2，♦*Yongcheng Qi*3. 1Lakehead University， 2Henan Normal University， 3University of Minnesota Duluth |
| 8:25 | Moderate Deviation Principle of Modularity in Network  *Qin Yin*1, *Yu Miao*1, *Zhen Wang*1*，* ♦*Guangyu Yang*2.  1Henan Normal University， 2Zhengzhou University |
| 8:50 | Cramer's Moderate Deviations for Martingales with Applications  ♦*Xiequan Fan*1, *Qiman Shao*2  1Northeastern University at Qinhuangdao, 2Southern University of Science and Technology |
| 9:15 | Inference Via Robust Optimal Transportation: Theory and Methods  *Ma Yiming*1, ♦*Hang Liu*1, *Davide La Vecchia*2*， Matthieu Lerasle*3  1University of Science and Technology of China, 2University of Geneva， 3ENSAE Paris |

**Session 24CHI108: Statistical Analysis of Complex Data**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Liuquan Sun

Chair: Lianqiang Qu

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| 8:00 | Testing Latent Classes in Gut Microbiome Data Using Beta-Binomial Regression Models  *Qinglin Wang*1, ♦*Peng Ye*1，*Hua He*2. 1University of International Busines and Economics， 2Tulane University |
| 8:25 | High-Dimensional Partially Linear Functional Cox Models  ♦*Xin Chen*, *Hua Liu*, *Jiaqi Men，Jinhong You*. |
| 8:50 | Real-time Inference for Streaming Survival Data from Multiple Heterogeneous Studies with a Cure Fraction  ♦*Bo Han*1, *Niansheng Tang*1, *Liuquan Sun*2 *， Van Keilegom Ingrid*3.  1Yunnan University， 2Academy of Mathematics and Systems Science, Chinese Academy of Sciences， 3KU Leuven |
| 9:15 | Efficient Estimation and Optimal Treatment Allocation in Adaptive Clinical Trials  ♦*Wei Zhang*1, *Zhiwei Zhang*2，*Aiyi Liu*3.  1Academy of Mathematics and Systems Science, CAS， 2Biostatistics Innovation Group, Gilead Sciences， 3National Institute of Child Health and Human Development, National Institutes of Health |

**Session 24CHI2: Advanced Methods in Large-scale Statistical Analysis**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Shuyuan Wu

Chair: Shuyuan Wu

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| 8:00 | Profiled Transfer Learning for High Dimensional Linear Model  ♦*Ziqian Lin*, *Junlong Zhao,* *Fang Wang**， Hansheng Wang.* |
| 8:25 | Quasi-newton Updating for Large-scale Distributed Learning  ♦*Shuyuan Wu*1, *Danyang Huang*2*， Hansheng Wang*3.  1Shanghai University of Finance and Economics， 2Renmin University of China， 3Peking University |
| 8:50 | Communication-Efficient Distributed Sparse Learning with Oracle Property and Geometric Convergence  ♦*Jiyuan Tu*1, *Weidong Liu*2*， Xiaojun Mao*2.  1Shanghai University of Finance and Economics， 2Shanghai Jiao Tong University |
| 9:15 | Mini-batch Gradient Descent with Buffer  ♦*Haobo Qi*1, *Du Huang*2, *Yingqiu Zhu*3, *Danyang Huang*4 *and Hansheng Wang*5. 1Beijing Normal University， 2Matpool, Timestamp Information Technology LLC， 3University of International Business and Economic， 4Renmin University of China 5Peking University |

**Session 24CHI12: Advances in Statistical Learning Inference with High Dimensional Data**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Feifei Xiao

Chair: Feifei Xiao

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| 8:00 | Detecting Epidemic Changes through Shifted Maximum Subarray Analysis  *♦Yue Niu1, Ning Hao1, Tim Mo1*， *Han Xiao2.*  1University of Arizona， 2Rutgers University |
| 8:25 | Robust Mendelian Randomization Method Accounting for Idiosyncratic and Correlated Pleiotropy with Applications to Stroke Outcomes.  ♦*Qing Cheng1, Wenxin Xu1, Chan Wang2* and *Yanyan Zhao3.*  1Southwestern University of Finance and Economics， 2New York University Grossman School of Medicine， 3Shandong University |
| 8:50 | Global and Large-scale Multiple Testing for High-dimensional Quantile Effects  ♦*Yeqing Zhou*1, *Kai Xu*2, *Chen Xu*3 *and Liping Zhu*4.  1Tongji University, 2Anhui Normal University, 3University of Ottawa and 4Renmin University of China |
| 9:15 | Enhancing Copy Number Variation Detection with Deep Learning Techniques  ♦*Feifei Xiao1, Dayuan Wang1* and *Fei Qin2*  1University of Florida， 2National Institute of Health |

**Session 24CHI56: Novel Statistical Methods with Applications in Medical and Financial Studies**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Xinyuan Song

Chair: Xiangnan Feng

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| 8:00 | Screen Then Select: A Strategy for Correlated Predictors in High-dimensional Quantile Regression  ♦*Xuejun Jiang1*  1Southern University of Science and Technology |
| 8:25 | GPJM: Gaussian Process Joint Model for Integrative Analysis of Parkinson's Disease  *Junxuan Chen1* and♦*Kai Kang1*  1Sun Yat-sen University |
| 8:50 | Threshold Estimation in Proportional Mean Residual Life Model  ♦*Bing Wang1* and *Xinyuan Song2*  1Anhui University， 2The Chinese University of Hong Kong |
| 9:15 | Regression Analysis of Logistic Model with Latent Variables  *Yuan Ye*1, *Zhongchun Liu* 2, ♦*Deng Pan*1 and *Yuanshan Wu*3.  1Huazhong University of Science and Technology， 2Renmin Hospital of Wuhan University， 3Zhongnan University of Economics and Law |

**Session 24CH74: Recent Advances in Statistical Methods for Analyzing Two-Phase Data and Genetic Data**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Min Yuan

Chair: Hong Zhang

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| 8:00 | Moving beyond Population Variable Importance: Concept, Theory and Applications of Individual Variable Importance  ♦*Guorong Dai1, Lingxuan Shao1* and *Jinbo Chen2*  1Fudan University， 2University of Pennsylvania |
| 8:25 | Mutually Exclusive Spectral Biclustering and Its Applications in Cancer Subtyping  ♦*Min Yuan*.  Anhui Medical University. |
| 8:50 | Adaptive Stratified Sampling Design in Two-phase Studies for Average Treatment Effect Estimation  ♦*Min Zeng1, Jinfeng Xu2* and *Hong Zhang1.*  1University of Science and Technology of China， 2City University of HongKong |
| 9:15 | Methods for Identifying Mutually Exclusive Genes and Their Application in Breast Cancer Data  ♦*Zeyu Zhang*  Shijiazhuang Tiedao University |

**Session 24CHI88: Recent Developments in Complex Time-to-Event Data Analysis**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Xinyuan Song

Chair: Hong Wang

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| 8:00 | Transformation Models with Informative Partly Interval-censored Data  ♦*Jingjing Jiang1, Chunjie Wang1, Deng Pan2* and *Xinyuan Song3*  1Changchun University of Technology， 2Huazhong University of Science and Technology， 3The Chinese University of Hong Kong |
| 8:25 | Additive Hazards Model with Time-varying Coefficients and Imaging Predictors  ♦*Qi Yang1*  1Shandong University |
| 8:50 | Accelerated Hazards Model under Length-biased Sampling  *Cong Liu1* and♦*Haijin He2*  1Shunfeng 2Shenzhen University |
| 9:15 | Regression Analysis of Group-tested Current Status Data  ♦*Shuwei Li* |

**Session 24CHI129: Statistics in Biosciences**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: (Tony) Jianguo Sun

Chair: (Tony) Jianguo Sun

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| 8:00 | A Semiparametric Cox-aalen Transformation Model with Censored Data  *Xi Ning1, Yinghao Pan2,* ♦*Yanqing Sun2* and *Peter Gilbert3*  1Colby College， 2University of North Carolina at Charlotte， 3Department of Biostatistics, University of Washington and Fred Hutchinson Cancer Center |
| 8:25 | Risk Predictions Using Data with Complex Censoring Mechanism  ♦*Haoxuan (Charlie) Zhou1, Xiaoqiong Joan Hu1, Yan Yuan2* and *Yi Xiong3*  1Simon Fraser University， 2University of Alberta， 3University at Buffalo |
| 8:50 | Use of Real-world Electronic Health Records (EHR) Data to Identify Potential Adverse Effects of COVID-19 Vaccines  ♦*Hulin Wu1,*  *1*University of Texas Health Science Center at Houston |
| 9:15 | The Analysis of Gene Expression Using Statistical Learning Approaches and Research Teaching Innovation  *Xiyuan Liu*1, ♦*Di Gao*2 and *Gang Shen*3.  1Louisiana Tech University, 2Sam Houston State University， 3North Dakota State University. |

**Session 24CHI111: Statistical Considerations for Rare Disease and Pediatric Clinical Trials with Challenges in Study Design**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Hao Zhang

Chair: Hao Zhang

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| 8:00 | Regional Sample Size in Mrct – Statistical Considerations  ♦*Weiya Xu1* and *Hao Zhang1* .  1Sanofi |
| 8:25 | Estimand Consideration for Recurrent Event  ♦*Wenruo Hu*1 .  1Sanofi |
| 8:50 | Statistical Considerations on Leveraging External Data in Clinical Trials  ♦*Grace Lin1* .  1Sanofi |
| 9:15 | Statistical Considerations in Defining Causal Estimands of Single-arm Trials  ♦*Liqi Feng* and *Hao Zhang*. |

**Session 24CHI9: Advancements in Statistical Testing, Estimation, and Modeling Across Diverse Data Structures**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Weixin Yao

Chair: Weiwei Zhuang

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| 8:00 | Estimation and Inference for Fixed Center Effects on Panel Count Data  ♦*Weiwei Wang1, Yijun Wang1* and *Xiaobing Zhao2*  1Zhejiang Gongshang University， 2Zhejiang University of Finance and Economics |
| 8:25 | Two-sample Tests Based on Data Depth  *XIaoping Shi1, Yue Zhang1* and♦*Chifeng Shen2*  1University of British Columbia Okanagan， 2York University |
| 8:50 | Consistent Semiparametric Tests for Lorenz Dominance Based on the Density Ratio Model  *Wenchen Liao*1, *Weiqi Yang*1, *Yukun Liu*2 and ♦*Weiwei Zhuang*1.  1University of Science and Technology of China, 2East China Normal University |
| 9:15 | Efficient Auxiliary Information Synthesis for Cure Rate Model  *Jie Ding*, *Jialiang Li*, ♦*Xiaoguang Wang* |

**Session 24CHI25: Complex Statistical Inference for Large-Scale Datasets**

Room: 13-DANGUI HALL（丹桂厅）

Organizer: Hansheng Wang

Chair: Yingqiu Zhu

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| 8:00 | A Communication Efficient Boosting Method for Distributed Spectral Clustering  ♦*Yingqiu Zhu1 and Danyang Huang2*. 1University of International Business and Economics， 2Renmin University of China |
| 8:25 | Latent Space Link Prediction Model for Patent Citation  ♦*Wei Hu and Ning Yang.* |
| 8:50 | Pairwise Maximum Likelihood for Multi-Class Logistic Regression Model with Multiple Rare Classes  ♦*Xuetong Li1, Danyang Huang2 and Hansheng Wang1.*  1Peking University， 2Renmin University of China |
| 9:15 | Subsampling Strategy of AIC-based Model Averaging for Generalized Linear Models with Massive Datasets  ♦*Jun Yu*1, *HaiYing Wang*2 *and Mingyao Ai*3.  1Beijing Institute of Technology, 2University of Connecticut and 3Peking University. |

**Session 24CHI32: Frontiers in Multiple Hypothesis Testing**

Room: 14-YICHANG HALL（宜昌厅）

Organizer: Yuan Jiang

Chair: Yuan Jiang

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| 8:00 | 1. values, Multiple Testing and Beyond   ♦*Xianyang Zhang1 and Guanxun Li1.* 1Texas A&M University |
| 8:25 | A Constructive Approach to Selective Risk Control  ♦*Zijun Gao1, Wenjie Hu2 and Qingyuan Zhao3.*  1University of Southern California， 2Peking University， 3University of Cambridge |
| 8:50 | Integrative Conformal p-Values For Out-of-distribution Testing with Labeled Outliers  *Ziyi Liang1, Matteo Sesia1 and* ♦*Wenguang Sun2*  1University of Southern California， 2Zhejiang University |
| 9:15 | Asymptotic Uncertainty of False Discovery Proportion  *Meng Mei,* ♦*Tao Yu1 and Yuan Jiang2.*  1Department of Statistics and Data Science, National University of Singapore， 2Department of Statistics, Oregon State University |

**Session 24CHI43: Machine Learning Methods for Multi-Omics Data Analysis**

Room: 15-XIAOGAN HALL（孝感厅）

Organizer: Ying Ma

Chair: Ying Ma

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| 8:00 | Integrated Analysis of Imaging and RNA-Seq to Characterize Smoking-related Lung Disease Phenotypes  ♦*Fenghai Duan1.*  1Brown University School of Public Health |
| 8:25 | Can We Make Learning Machines to Discover New Knowledge?  ♦*Xuegong Zhang1*.  1Tsinghua University |
| 8:50 | Powerful and Accurate Detection of Temporal Gene Expression Patterns from Multi-sample Multi-stage Single-cell Transcriptomics Data with Tdeseq  ♦*Shiquan Sun1*.  *1*Xi'an Jiaotong University |
| 9:15 | Intelligent Spatial Transcriptomics: Methods and Applications  ♦*Shihua Zhang1*.  *1*Academy of Mathematics and Systems Science, CAS |

**June 29, 10:00-11:40**

**Session 24CHI14: Advances in Theories and Methods for Dependent Data Analysis**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Shibin Zhang

Chair: Shibin Zhang

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| 10:00 | Msb: A Unified Bootstrap for $L^Infty$-Norm Statistics oif High-Dimensional Time Series  *Ruru Ma*1 *and* ♦*Shibin Zhang*1. 1Shanghai Normal University |
| 10:25 | Self-weighted Quantile Estimation of Ornstein-uhlenbeck Process with Jumps  ♦*Yuping Song*1, *Chunchun Cai*1 *and Min Zhu*1.  1Shanghai Normal University |
| 10:50 | On Log-concave-tailed Chaos and the Restricted Isometry Property  *Guozheng Dai*1, *Zhonggen Su*1, *Vladimir Ulyanov*2 *and* ♦*Hanchao Wang*3.  1Zhejiang University， 2Moscow State University， 3Shandong University |
| 11:15 | A Variation-ratio Test for Volatility Jumps Using Noisy High Frequency Data  ♦*Guangying Liu, Yang Li and Zhiyuan Zhang.* |

**Session 24CHI44: Machine Learning Methods for Survival Data**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Yingwei Peng

Chair: Yingwei Peng

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| 10:00 | Bayesian Tree-based Heterogeneous Mediation Analysis with a Time-to-event Outcome  *Rongqian Sun*1 ， ♦*Xinyuan Song*1  1The Chinese University of Hong Kong |
| 10:25 | Gradient Boosting Methods for Survival Data  *Peizhi Li*1, ♦*Yingwei Peng*2 and *Jianing Zheng*1  1Dongbei University of Finance and Economics， 2Queen's University |
| 10:50 | Polya Trees for Survival Data  ♦*Liqun Diao*1 and *Yixing Zhao*1. 1University of Waterloo |
| 11:15 | DeepSurv Landmarking: A Deep Learning Approach for Dynamic Survival Analysis with Longitudinal Data  *Yixuan Wang*1, ♦*Xuejing Zhao*1  1Lanzhou University |

**Session 24CHI49: New Developments in PCA Approaches**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Catherine Liu

Chair: Catherine Liu

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| 10:00 | Modeling and Learning on High-dimensional Matrix-variate Sequences  ♦*Xu Zhang1, Catherine Chunling Liu2, Jianhua Guo3, K. C. Yuen4, A. H. Welsh5*  1South China Normal University， 2The Hong Kong Polytechnic University， 3Beijing Technology and Business University， 4The University of Hong Kong， 5The Australian National University |
| 10:25 | Revisiting Asymptotic Theory for Principal Component Estimators of Approximate Factor Models  ♦*Peiyun Jiang*1, *Yoshimasa Uematsu*2, *Takashi Yamagata*3  1Tokyo Metropolitan University， 2Hitotsubashi University， 3University of York |
| 10:50 | Principle Component Estimation for High-dimensional Factor Models  ♦*Feifei Zhou*, *Zhigen Gao*, *Binghui Liu* |
| 11:15 | High-Dimensional Vector Autoregression with Common Response and Predictor Factors  ♦*Di Wang1*  *1*Shanghai Jiao Tong University. |

**Session 24CHI122: Statistical Methods of Survival Data**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Liuquan Sun

Chair: Zhang Wei

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| 10:00 | Estimation and Inference of Semiparametric Models for Directed Network Formation  ♦*Lianqiang Qu*1, *Lu Chen*, *Ting Yan* and *Yuguo Chen*.  1Central China Normal University |
| 10:25 | Semiparametric Transformation Models of Survival-out-of-Hospital  ♦*Xiaowei Sun*1, *Cheng Zeng*2 *and Liuquan Sun*2.  1School of Mathematics and Statistics, Beijing Jiaotong University， 2Institute of Applied Mathematics, Academy of Mathematics and Systems Science, Chinese Academy of Sciences |
| 10:50 | Nonparametric Statistical Inference via Metric Distribution Function in Metric Spaces  *Xueqin Wang*1, *Jin Zhu*2, ♦*Wenliang Pan3*, *Junhao Zhu*2 *and Heping Zhang*4.  1University of Science and Technology of China， 2Sun Yat-Sen University， 3Chinese Academy of Sciences， 4Yale University |
| 11:15 | Semiparametric Representation Transfer Regression  ♦*Baihua He*1, *Huihang Liu*1 and *Jian Huang*2.  1USTC， 2Poly U |

**Session 24CHI3: Advanced Statistical Approaches for Complex Data**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Yufeng Liu

Chair: Xiaoling Lu

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| 10:00 | Tyranny-of-the-minority Regression Adjustment in Randomized Experiments  *Xin Lu* *and* ♦*Hanzhong Liu.* |
| 10:25 | Mining Multi-brand Characteristics from Online Reviews for Competitive Analysis: A Brand Joint Model Using Latent Dirichlet Allocation  ♦*Lu Xiaoling* |
| 10:50 | Penalized Sparse Covariance Regression with High Dimensional Covariates  ♦*Yuan Gao*1, *Zhiyuan Zhang*2, *Zhanrui Cai*3, *Xuening Zhu*2, *Tao Zou*4.  1Peking University， 2Fudan University， 3The University of Hong Kong 4Australian National University |
| 11:15 | Model-free Joint Variable Selection Via Importance Weighting  ♦*Yiwei Fan*1 *and**Junlong Zhao*2.  1School of Mathematics and Statistics, Beijing Institute of Technology， 2School of Statistics, Beijing Normal University |

**Session 24CHI16: AI Frontiers in Clinical Data Analysis: Innovations and Applications**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Jingwen Jia

Chair: Jingwen Jia

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| 10:00 | AI-powered eCRT Package Translation  ♦*Zhanjian Dong* and *Yuzheng Ou*. |
| 10:25 | 人工智能前沿技术在生命科学领域的应用  ♦*Ning Ma* |
| 10:50 | AI Assisted Clinical Data Validation  ♦*Bogong Zhu*. |
| 11:15 | Deep Networks as Denoising Algorithms: Sample-Efficient Learning of Diffusion Models in High-dimensional Graphical Models  ♦*Song Mei*1, *Yuchen Wu*2  1UC Berkeley, 2University of Pennsylvania |

**Session 24CHI50: New Developments of Statistical Methods in Model Selection and Bio-Medical Studies**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Gengsheng Qin

Chair: Gengsheng Qin

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| 10:00 | Estimation of Volume Under The Roc Surface with Verification Biased Data  *Shuangfei Shi1* and♦*Gengsheng Qin1*  *.*1Georgia State University |
| 10:25 | Variable Selection after Multiple Imputation on Epidemiological Data with Missing Values  *Yang Li, Haoyu Yang, Haochen Yu, Hanwen Huang* and♦*Ye Shen.* |
| 10:50 | Sparse Maximum Likelihood Estimation for Regression Models  ♦*Min Tsao1*  1University of Victoria, Canada |
| 11:15 | False Discovery Rate Control for Variable Selection in Spatial Linear Models  *Yang Wang1, Yingke Yang1* and♦*Zhouping Li1*  1Lanzhou University |

**Session 24CHI75: Recent Advances in Statistical Methods for Complex Data Analysis**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Yue Niu

Chair: Yue Niu

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| 10:00 | Linear Algorithms for Robust and Scalable Nonparametric Multiclass Probability Estimation  *Liyun Zeng1* and♦*Hao Zhang1*  1University of Arizona |
| 10:25 | Clustered Coefficient Regression Models for Poisson Process with an Application to Seasonal Warranty Claim Data  *Xin Wang1, Xin Zhang2* and♦*Zhengyuan Zhu3*  1San Diego State Universitity， 2Meta， 3Iowa State University |
| 10:50 | Dynamic Supervised Principal Component Analysis for Classification  *Wenbo Ouyang1, Ruiyang Wu2 ,* ♦*Ning Hao* and *Hao1 Helen Zhang1*  1The University of Arizona， 2New York University |
| 11:15 | Bayesian Nonparametrics Models for Grouped Data: Plaid Atoms Model  ♦*Yuan Ji1* and *Dehua Bi1*  1The University of Chicago |

**Session 24CHI94: Recent Developments of Statistical and Computational Methodologies for Genomic Data**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Chenxi Li

Chair: Chenxi Li

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| 10:00 | An Adaptive Fisher’s Method for Genome-wide Multi-trait Association Study with Summary Statistics  ♦*Shili Lin1*  1Ohio State University |
| 10:25 | Leverage Genome-wide SNPs and Biobank-scale Data for Efficient and Improved Estimation of Genetic Admixture Proportions  ♦*Baolin Wu1*  1University of California - Irvine |
| 10:50 | An Explicit Method for Snp-heritability Estimation Using Gwas Summary Statistics without Heritability Modeling  ♦*Kai Wang1.*  1University of Iowa |
| 11:15 | Robustness and Resilience of Computational Deconvolution Methods for bulk RNA Sequencing Data  *Su Xu1, Duan Chen1, Xue Wang2* and ♦*Shaoyu Li1*  1University of North Carolina at Charlotte， 2Mayo Clinic |

**Session 24CHI105: Spatial Data Modeling and Applications in Biomedical Data Analysis**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Guoshuai Cai

Chair: Guoshuai Cai

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| 10:00 | Differential Expression Analysis of Spatial Transcriptomic Data  *Fei Qin1, Xizhi Luo2, Bo Cai1, Feifei Xiao3* and ♦*Guoshuai Cai3*.  1University of South Carolina， 2AbbVie Inc.， 3University of Florida |
| 10:25 | ENGEP: Advancing Spatial Transcriptomics with Accurate Unmeasured Gene Expression Prediction  *Shi-Tong Yang1* and♦*Xiao-Fei Zhang1* .  1Central China Normal University |
| 10:50 | Bayesian Semiparametric Modeling for Spatial Partly Interval-Censored Data  ♦*Bo Cai1* and *Chun Pan2*.  1University of South Carolina， 2Hunter College |
| 11:15 | Ai Powered Spatial Transcriptomics for Knowledge Discovery  ♦*Qianqian Song1*.  1University of Florida |

**Session 24CHI112: Statistical Considerations of Time-to-Event Analysis in Modern Oncology Clinical Trials**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Tao Zhang

Chair: Tao Zhang

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| 10:00 | Event-Free Survival As a Surrogate Endpoint for Overall Survival in Previously Untreated Acute Myeloid Leukemia  ♦*Jun Yin*1  1Moffitt Cancer Center |
| 10:25 | Covariate Adjustment or Stratified Analyses for Time-to-event Endpoints  ♦*Xiuyu Cong* |
| 10:50 | Case Sharing Reflections for Time-to-event Sensitivity Analysis from a Confirmatory Oncology Clinical Trial with Open-label Design  ♦*Yuqi Wang1, Gang Cheng1*  1Jiangsu Hengrui Medicine CO.,LTD |
| 11:15 | Performance of Right-Censored vs. Interval-censored Methods for Evaluating Time to Progression and Progression-Free Survival.  ♦*Zhihao Cheng*1, *Tao Zhang*1, *Zhao Wang*1 ， *Yang Yan1*.  1Qilu Pharmaceutical Co. |

**Session 24CHI11: Advances in Kernel Methods and Nonparametric Inference for Complex Data**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Dongming Huang

Chair: Dongming Huang

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| 10:00 | Optimal Rate of Kernel Regression in Large Dimensions  ♦*Weihao Lu1, Haobo Zhang1, Yicheng Li1, Manyun Xu1 ，* *Qian Lin1*  1Tsinghua University |
| 10:25 | AMMD-based New Test for Equality of Several Distributions in Separable Metric Spaces  ♦*Jin-Ting Zhang1, Jia Guo2 ， Bu Zhou3*  1Department of Statistics and Data Science, National University of Singapore， 2School of Management, Zhejiang University of Technology, China， 3School of Statistics and Mathematics, Zhejiang Gongshang University, China |
| 10:50 | The Optimality of Kernel Classifiers in Sobolev Space  *Jianfa Lai1, Zhifan Li1,* ♦*Dongming Huang2* and *Qian Lin1*  1Tsinghua University， 2National University of Singapore |
| 11:15 | Scalable Statistical Inference in Non-parametric Least Squares  ♦*Meimei Liu*1, *Zuofeng Shang*2 *and Yun Yang*3.  1Virginia Tech, 2NJIT ， 3UIUC. |

**Session 24CHI26: Computational and Methodological Statistics**

Room: 13-DANGUI HALL（丹桂厅）

Organizer: Zhigen Zhao

Chair: Zhigen Zhao

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| 10:00 | Causal Mediation Analysis for Multilevel and Functional Data  *Yi Zhao1,* ♦*Xi Luo2, Michael Sobel3, Martin Lindquist4 and Brian Caffo4.*  1Indiana University， 2Univ of Texas Health Science Center at Houston， 3Columbia University， 4Johns Hopkins University |
| 10:25 | Distributionally Robust Markov Decision Process with Uncertain Transition Probabilities  ♦*Yue Shi*1 and *Yisha Xiang*2  1Wuhan University, 2University of Houston |
| 10:50 | Bayesian Mixed-effect Higher-Order Hidden Markov Models with Applications to Predictive Healthcare Using Electronic Health Records  ♦*Ying Liao*1, *Yisha Xiang*2, *Zhigen Zhao*3, *Di Ai*4  1Wuhan University, 2University of Houston , 3Temple University, 4The University of Texas Health Science Center at Houston |
| 11:15 | On Partial Envelope Approach for Modeling Spatial-Temporally Dependent Data  ♦*Wenbo Wu*1, *Reisa Widjaja*1, *Keying Ye*1  1The University of Texas at San Antonio |

**Session 24CHI37: High-Dimensional Data Analysis and Variable Selection**

Room: 14-YICHANG HALL（宜昌厅）

Organizer: Lan Gao

Chair: Lan Gao

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| 10:00 | CoxKnockoff: Controlled Feature Selection for the Cox Model Using Knockoffs  ♦*Daoji Li1, Jinzhao Yu2 and Hui Zhao2*  1California State University, Fullerton， 2Zhongnan University of Economics and Law |
| 10:25 | Self-normalized Cram\'Er Type Moderate Deviation Theorem for Gaussian Approximation  ♦*Jingkun Qiu1, Song Xi Chen2 and Qi-Man Shao2.*  1Guanghua School of Management, Peking University， 2Guanghua School of Management and Center for Statistical Science, Peking University， 3Department of Statistics and Data Science, SICM, National Center for Applied Mathematics Shenzhen, Southern University of Science and Technolog |
| 10:50 | Enhancing Efficiency and Robustness in High-dimensional Linear Regression with Additional Unlabeled Data  ♦*Yuqian Zhang1 ， Kai Chen1.*  1Renmin University of China |
| 11:15 | Semi-Parametric Tensor Factor Analysis by Iteratively Projected Singular Value Decomposition  ♦*Elynn Chen*, *Dong Xia*, *Chencheng Cai* ， *Jianqing Fan*. |

**Session 24CHI83: Recent Development in Change-**

**Point Detection Problem**

Room: 15-XIAOGAN HALL（孝感厅）

Organizer: Jun Li

Chair: Jun Li

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| 10:00 | Graph-based Multiple Change-point Detection  *Yuxuan Zhang ，* ♦*Hao Chen1*.  1University of California, Davis. |
| 10:25 | Spectral Norm of Exponentially Weighted Moving Sample Covariance Matrix and Its Application to Sequential Sparse Signal Detection  ♦*YanHong Wu1, wei biao wu2* and *Dong-Yun Kim3*  1California State University Stanislaus， 2University of Chicago， 3NIH |
| 10:50 | A Change-point Method for Phase I Analysis of High-dimensional Processes with Sparse Mean Shifts  ♦*Lianjie Shu* |
| 11:15 | Constructing Generalized Optimal Control Charts for Detecting Distribution Changes in Dependent Observations Sequence  ♦*Dong Han*1, *Fugee Tsung*2  1Shanghai Jiao Tong University, 2Hong Kong University of Science and Technology |

**June 29, 13:00-14:40**

**Session 24CHI4: Advanced Statistical Learning For Complicated Gene Data**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Xu Liu

Chair: Xingjie Shi

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| 13:00 | Large Precision Matrix Estimation for Compositional Data  ♦*Shucong Zhang*1, *Huiyuan Wang*2 *and Wei Lin*3.  1University of International Business and Economics， 2University of Pennsylvania， 3Peking University |
| 13:25 | Supervised Bayesian Joint Graphical Model for Simultaneous Network Estimation and Subgroup Identification  *Xing Qin*1, *Xu Liu*2 , *Shuangge Ma*3 *and* ♦*Mengyun Wu*2.  1Shanghai University of International Business and Economics， 2Shanghai University of Finance and Economics， 3Yale School of Public Health |
| 13:50 | Mendelian Randomization Identifying and Estimating Causal Moderation Effect Using Genome-Wide Summary Statistics  ♦*Xingjie Shi1*  *1*East China Normal University |
| 14:15 | Joint Modeling Approach for Censored Predictors in Generalized Linear Model Due to Detection Limit with Applications to Metabolites Data  *Fengxue Li1, Shuo Bai1, Peng Ye2, Yi Tang3,* ♦*Hua He1*  1Tulane University, 2University of International Business and Economics, China,3University of Texas Health Science Center at Houston |

**Session 24CHI124: Statistical Modeling of Functional Data and Related Applications in Biomedicine**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Min Yuan

Chair: Min Yuan

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| 13:00 | Evaluating Prognostic Value of Dynamic of Circulating Lactate Dehydrogenase in Colorectal Cancer Using Modeling and Machine Learning  ♦*Haolun Ding1, Min Yuan2, Yaning Yang1, Manish Gupta3, Xu Steven Xu3*  1Department of Statistics and Finance, School of Management, University of Science and Technology of China， 2Department of Health Data Science, Anhui Medical University， 3Clinical Pharmacology and Quantitative Science, Genmab Inc., Princeton, New Jersey, USA |
| 13:25 | A Nonparametric Concurrent Regression Model with Multivariate Functional Inputs  *Yutong Zhai*1, ♦*Zhanfeng Wang*1, *Yuedong Wang*2  1University of Science and Technology of China， 2University of California - Santa Barbara, |
| 13:50 | Statistical Inference for Large-Scale Multi-Source Heterogeneous Data  ♦*Jiuzhou Miao*1, *Li Cai*1, *Suojin Wang*2  1School of Statistics and Mathematics, Zhejiang Gongshang University， 2Department of Statistics, Texas A&M University. |
| 14:15 | Application of Multi-Criteria Decision Analysis (MCDA) to Develop an Efficacy-Safety Profile for Dose Selection in Oncology/Hematology Trials  ♦*Chengqing Wu*1, *Jun Zhang*1, *Hao Wang*2  1BeiGene， 2Iowa State University |

**Session 24CHI101: Semiparametric Panel Data Models: Theory and Applications**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Chaohua Dong

Chair: Yayi Yan

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| 13:00 | Robust Inference for High-Dimensional Panel Data Models  *Jiti Gao*1, *Bin Peng*1 *and* ♦*Yayi Yan*2.  1Monash University， 2Shanghai University of Finance and Economics |
| 13:25 | Macroeconomic Factors and Return Predictability: A Factor-Augmented Sum-of-the-parts Method  *Tingting Cheng*1, ♦*Xuanbin Yang*1 *and Bo Zhao*1.  1Nankai University |
| 13:50 | Estimation and Inference for 3-Dimensional Panel Data Models  *Guohua Feng*1, *Jiti Gao*2,♦*Fei Liu*3 *and Bin Peng*2.  1University of North Texas， 2Monash University， 3Nankai University |
| 14:15 | Semiparametric Estimation of Heterogeneous Treatment Effects with Sieve Method  ♦*Jichang Yu*1.  1Zhongnan University of Economics and Law |

**Session 24CHI98: Reinforcement Learning and Personalized Medicine**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Ruoqing Zhu

Chair: Yifan Cui

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| 13:00 | Online Statistical Inference for Low-rank Reinforcement Learning  ♦*Wei Sun*1.  1Purdue University |
| 13:25 | Off-policy Evaluation in Doubly Inhomogeneous Environments  ♦*Zeyu Bian*1, *Chengchun Shi*2, *Zhengling Qi*3 *and Lan Wang*1.  1University of Miami， 2London School of Economics and Political Science， 3George Washington University |
| 13:50 | Policy Learning with Continuous Actions Under Unmeasured Confounding  *Yuhan Li*1, *Eugene Han*1, *Wenzhuo Zhou*2 , *Zhengling Qi*3 , Yifan Cui4 *and* ♦*Ruoqing Zhu*1.  1University of Illinois Urbana Champaign， 2University of California, Irvine， 3George Washington University 4Zhejing University |
| 14:15 | Proxy-aided Demand Learning with an Application on Various Pricing Problems  ♦*Tao Shen*1 *and Yifan Cui*2.  1National University of Singapore， 2Zhejiang University |

**Session 24CHI8: Advancements in Statistical Methods for Diverse Applications**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Yanyan Liu

Chair: Wen Su

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| 13:00 | Demographic Parity-aware Individualized Treatment Rules  *Wenhai Cui*1, ♦*Wen Su*2, *Xiaodong Yan*1 *and Xingqiu Zhao*3.  1Shandong University， 2City University of Hong Kong， 3The Hong Kong Polytechnic University |
| 13:25 | Diverging-Dimensional Distributed Estimation under GLMs with Pilot Samples  ♦*Xiaochao Xia*1.  1Chongqing University |
| 13:50 | Model-free conditional screening for ultrahigh-dimensional survival data via conditional distance correlation  ♦*Jing Zhang*1, *Mingyue Du*2, *Yanyan Liu*3 *and Jianguo Sun*4.  1Zhongnan University of Economics and Law, 2The Hong Kong Polytechnic University, 3Wuhan University and 4University of Missouri. |
| 14:15 | Over-parameterized Deep Nonparametric Regression for Dependent Data with Its Applications to Reinforcement Learning  *Xingdong Feng*1, *Yuling Jiao*2,♦*Lican Kang*2, *Baqun Zhang*1, *Fan Zhou*1  1Shanghai University of Finance and Economics, 2Wuhan University |

**Session 24CHI21: Causal Inference and Semiparametric Learning**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Wei Li

Chair: Wei Li

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| 13:00 | Root-n Consistent Semiparametric Learning with High-Dimensional Nuisance Functions under Minimal Sparsity  *Lin Liu1* and♦*Yuhao Wang2.*  1Shanghai Jiao Tong University， 2Tsinghua University |
| 13:25 | A Semiparametric Instrumented Difference-in-Differences Approach to Policy Learning  ♦*Pan Zhao1* and *Yifan Cui2.*  1Inria， 2Zhejiang University |
| 13:50 | Causal Inference for Dyadic Data with Interference  ♦*Wang Miao*1.  1Peking University. |
| 14:15 | Distribution-Free Prediction Intervals Under Covariate Shift, With an Application to Causal Inference  *Jing Qin, ♦Yukun Liu, Moming Li and Chiung-Yu Huang.* |

**Session 24CHI58: Real World Evidence: Under the Regulatory Microscope**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Sheng Feng

Chair: Sheng Feng

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| 13:00 | The Hainan RWE Pathway  *♦Sheng Feng1 .*  1Parexel |
| 13:25 | Real World Evidence-Under the Regulatory Microscope  ♦*Feng Sun*. |
| 13:50 | Integrative Analysis of Randomized Clinical Trials with Real-World Data: Methods and Applications  ♦*Xiaofei Wang1* and *Shu Yang1.*  1Duke University 2North Carolina State University |
| 14:15 | Single-Arm Trials with External Controls  ♦*Jie Chen* |

**Session 24CHI118: Statistical Learning with Multiple Data Sources**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Tiejun Tong

Chair: Xiaochen Zhang

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| 15:00 | Communication Efficient Federated Statistical Analysis with Differential Privacy  *Changgee Chang1, Zhiqi Bu2* and♦*Qi Long3* .  1Indiana University School of Medicine， 2Amazon AWS AI， 3University of Pennsylvania |
| 15:25 | Individualized and Adaptive Transfer Learning Via Subset-Estimating Equation and Composition  *Lu Lin1, Jun Lu2* and♦*Xiaochen Zhang3* .  1Shandong University， 2National University of Defense Technology 3Beijing Normal University |
| 15:50 | Information-Incorporated Clustering Analysis of Disease Prevalence Trends  ♦*Chenjin Ma1*.  1Beijing University of Technology. |
| 16:15 | Theoretical Foundations and Applications of Graph Neural Networks  ♦*Xingyu Han*1, *Feng Jiang*1  1Zhongnan University of Economics and Law，School of Statistics and Mathematics |

**Session 24CHI96: Recent Statistical Methods and Applications in Precision Medicine**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Xiaoqing Pan

Chair: Xiaoqing Pan

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| 13:00 | 1. value: a Superior Alternative to P-value and Its Adjustments in DNA Methylation Studies   ♦*Xiaoqing Pan1, Yifan Yang1* and *Pengyuan Liu2 .*  1Shanghai Normal University， 2Zhejiang University |
| 13:25 | Optimal Treatment Decision Making with Multiple Treatments under Proportional Hazards Model  ♦*Yuexin Fang, Xiangyong Tan* and *Qian Li.* |
| 13:50 | Global Identification and Characterization of LncRNAs as Transcriptomic Key Regulators in Human Cancer  ♦*Pengyuan Liu1, Chuanzheng Lup1, Xiang Cheng1, Liyuan Zhou1, Xiaoqing Pan2*.  1Zhejiang University， 2Shanghai Normal University |
| 14:15 | The Theory of Sieve Method Based on Laguerre Polynomial System and Its Applications  ♦*Xiumei Ren* |

**Session 24CHI106: Special Considerations in Oncology Drug Development**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Yuan Geng

Chair: Yuan Geng

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| 13:00 | Statistical Consideration in Backfill Cohort Approaches  ♦*Michael Lee.* |
| 13:25 | The Application of Restricted Mean Duration of Response (RMDoR)  ♦*Dian Yang* . |
| 13:50 | Key Considerations of Surrogate Endpoints in Oncology Clinical Trials  ♦*Nan Li1 .*  1MSD China |
| 14:15 | Consideration of Stratification in Oncology Confirmatory Trials with Time-to Event Endpoint  ♦*Zhiji Tang , Zhaohua Lu , Yuan Geng* and *Philipe He* . |

**Session 24CHI87: Recent Developments for Analyzing Complex Heterogeneous Data**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Weixin Yao

Chair: Weixin Yao

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| 13:00 | Penalized Robust Regression Estimator via Discounted Exponentile Loss for High-dimensional Heterogeneous Data  ♦*Yunlu Jiang* 1*, Zou Hang*1*, Wen Canhong*2*, Zhang Baoxue3, Wang Xueqin2*  1Jinan University， 2University of Science and Technology of China， 3Capital University of Economics and Business |
| 13:25 | Penalized Estimation and Order Selection for Hidden Markov Models  ♦*Mian Huang*1, *Yong Lin*1, *Weixin Yao*2 1Shanghai University of Finance and Economics， 2UC Riverside |
| 13:50 | Online Change-point Detection for Functional Data  *Hanbing Zhu*1, ♦*Houlin Zhu*1, *Yehua Li*2, *Xuejun Wang*1, *Xinyuan Song*3  1Anhui University，2Department of Statistics, University of California, Riverside， 3The Chinese University of Hong Kong |
| 14:15 | New Regression Model: Modal Regression  ♦*Weixin Yao.* |

**June 29, 15:00-16:40**

**Session 24CHI125: New developments in health data analysis with applications to clinical trials**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Yichuan Zhao

Chair: Yichuan Zhao

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| 15:00 | Policy Learning with Distributional Welfare  ♦*Yifan Cui1 and Sukjin Han2 .*  1Zhejiang University， 2University of Bristol |
| 15:25 | Regularized t Distribution: Definition, Properties and Applications  *Zongliang Hu1, Yiping Yang2, Gaorong Li 3and* ♦*Tiejun Tong4* |
| 15:50 | Variable Selection for Interval-censored Failure Time Data  ♦*(Tony) Jianguo Sun* |
| 16:15 | Bayesian Sample Size Estimation in Pediatric Clinical Trials with Adult Extrapolation  *Fangrong Yan* *and* ♦*Ruyue He*. |

**Session 24CHI120: Statistical Methods for Network Data**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Guanyu Hu

Chair: Xuening Zhu

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| 15:00 | Network Comparison by Multivariate Inference  *Mingyu Qi1,* ♦*Tianxi Li2, Wen Zhou3*  1University of Virginia， 2University of Minnesota， 3Colorado State University |
| 15:25 | Latent Network Structure Learning from High Dimensional Multivariate Point Processes  ♦*Biao Cai*1, *Jingfei Zhang*2, *Yongtao Guan*3  1City University of Hong Kong, 2Emory Universiy, 3Chinese University of Hong Kong |
| 15:50 | Joint Community Detection in Random Effects Stochastic Block Models Via the Split-Likelihood Method  *Jiangzhou Wang*1, *Meier Wu*2, ♦*Binghui Liu*3, *Jianhua Guo*4  1Shenzhen University， 2Shenyang Agricultural University， 3Northeast Normal University， 4Beijing Technology and Business University |
| 16:15 | Adaptive Merging and Efficient Estimation in Longitudinal NetworksFloor Discussion  *Haoran Zhang*1, ♦*Junhui Wang*2  1Southern University of Science and Technology， 2Chinese University of Hong Kong |

**Session 24CHI71: Recent Advances in Response Adaptive Randomization**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Yang Liu

Chair: Wei Ma

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| 15:00 | The Properties of Covariate-adaptive Randomization Procedures with Possibly Unequal Allocation Ratio  ♦*Xiao Liu*1, *Feifang Hu*2 *and Wei Ma*1. 1Renmin University of China， 2George Washington University |
| 15:25 | Bayesian Adaptive Randomization for Heterogeneous Causal Effects  ♦*Zhongqiang Liu.* |
| 15:50 | Covariate Adjustment for Doubly Adaptive Biased Coin Design  ♦*Fuyi Tu*1 ， *Wei Ma*2.  1Chongqing University of Posts and Telecommunications， 2Renmin University of China |
| 16:15 | Response-Adaptive Randomization Procedure in Clinical Trials with Surrogate Endpoints  ♦*Jingya Gao1*, *Feifang Hu2* and *Wei Ma3*  1University of Science， 2Technology Beijing， 3George Washington University, Renmin University of China |

**Session 24CHI113: Statistical Frontiers: Exploring Novel Techniques in Modeling, Testing and Beyond**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Fuke Wu

Chair: Hui Jiang

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| 15:00 | Bayes-Optimal Fair Classification with Linear Disparity Constraints via Pre-, In-, and Post-processing  ♦*Xianli Zeng*1, *Guang Cheng*2 *and Edgar Dobriban*1.  1University of Pennsylvania， 2University of California, Los Angeles |
| 15:25 | An Outlier Detection Test for the Functional Linear Model  ♦*Jia Guo.* |
| 15:50 | A New Maximum Mean Discrepancy Based Two-sample Test for Equal Distributions in Separable Metric Spaces  ♦*Bu Zhou*1, *Zhi Peng Ong*2 *and Jin-Ting Zhang*2.  1Zhejiang Gongshang University， 2National University of Singapore |
| 16:15 | A Variable Selection Tree and Its Random Forest  *Yu Liu*1, *Xu Qin*1, ♦*Zhibo Ca*i2  1University of Electronic Science and Technology of China, 2Renmin University of China |

**Session 24CHI10: Advances in Causal Inference: Methods and Applications**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Yuqian Zhang

Chair: Yuqian Zhang

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| 15:00 | Fighting Fire with Fire: a Synthetic Control Analysis of Low-Intensity Burns' Role in Mitigating Wildfire Risk  ♦*Xiao Wu*1, *Erik Sverdrup*2, *Michael Mastrandrea*2, *Michael Wara*2 *and Stefan Wager*2.  1Columbia University， 2Stanford University |
| 15:25 | Efficient Estimation of Causal Effects When Combining Heterogeneous Data with and without Instrumental Variables  ♦*Wei Li*1, *Peng Ding*2 *and Zhi Geng*3. 1Renmin University of China， 2University of California, Berkeley， 3Beijing Technology and Business University |
| 15:50 | Long-Term Causal Inference under Persistent Confounding Via Data Combination  *Guido Imbens*1, *Nathan Kallus*2, ♦*Xiaojie Mao*3 *and Yuhao Wang*3.  1Stanford University， 2Cornell University， 3Tsinghua University |

**Session 24CHI22: Challenges in Random Field-Based Modelling and Computations in Spatial statistics**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Juan Du

Chair: Zhengyuan Zhu

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| 15:00 | Deep Learning for Spatial Data through Low-Rank Approximations  ♦*Hao Zhang1*.  1Michigan State University |
| 15:25 | Estimation of Expected Euler Characteristic Curves of Nonstationary Smooth Random Fields  *Fabian Telschow1,* ♦*Dan Cheng2, Pratyush Pranav3* and *Armin Schwartzman4 .*  1Humboldt-Universität zu Berlin， 2Arizona State University， 3Centre de Recherche Astrophysique de Lyon， 4University of California San Diego |
| 15:50 | Vector Random Fields over the Arccos-Quasi-Quadratic Metric Space  ♦*Chunsheng Ma1*.  1Wichita State University |
| 16:15 | Model-Free Feature Selection for Ultra-High Dimensional Data with Measurement Error  ♦*Weixing Song.* |

**Session 24CHI23: Complex Data: Methodology and Application**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Liangliang Zhang

Chair: Liangliang Zhang

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| 15:00 | Addressing the Odds Ratio Inflation Issues in Logistic Regression with Perfect Separation  ♦*Chenyu Liu1 , Xi Qiao1 , Ruitao Liu1* and *Liangliang Zha1* .  1Case Western Reserve University |
| 15:25 | Bayesian Spatial Transcriptomic Deconvolution using Graph Laplacian Prior  *Jiasen Zhang1,* ♦*Weihong Guo1, Liangliang Zhang1* and *Xi Qiao1*.  1Case Western Reserve University |
| 15:50 | Enhancing Missing Data Imputation through Combined Bipartite Graph and Complete Directed Graph  ♦*Ziqi Chen1 .*  1East China Normal University |
| 16:15 | The Likelihood Ratio Test for Structural Changes in Factor Models  *Jushan Bai1,* ♦*Jiangtao Duan2* and *Xu Han3* .  1Columbia University 2Xidian University 3City University of Hong Kong |

**Session 24CHI84: Recent Development in Statistical Process Monitoring**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Jun Li

Chair: Jun Li

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| 15:00 | Directional Fault Classification for Correlated High-Dimensional Data Streams Using Hidden Markov Models  ♦*Dongdong Xiang1* .  1East China Normal University |
| 15:25 | Dynamic Modeling and Online Monitoring of Tensor Data Streams with Application to Passenger Flow Surveillance  *Yifan Li, Chunjie Wu,* ♦*Wendong Li, Fugee Tsung* and *Jianhua Guo .* |
| 15:50 | Multivariate Vs. Multi-Stream Ewma Control Charts  ♦*Sven Knoth1.*  1Helmut Schmidt University Hamburg |
| 16:15 | Multivariate Nonparametric Control Charts Based on Projection Pursuit  ♦*Jun Li* |

**Session 24CHI100: Robust Learning Inference for Data Science**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Jinchi Lv

Chair: Yingying Fan

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| 15:00 | Robust Estimation of Number of Factors in High Dimensional Factor Modeling Via Spearman's Rank Correlation Matrix  ♦*Zeng Li1*  *1*Southern University of Science and Technology |
| 15:25 | SIMPLE-RC: Group Network Inference with Non-Sharp Nulls and Weak Signals  *Jianqing Fan*1, *Yingying Fan*2, ♦*Jinchi Lv*2, *Fan Yang*3  1Princeton University， 2University of Southern California， 3Tsinghua University |
| 15:50 | Covariate-shift Robust Adaptive Transfer Learning for High-Dimensional Regression  *Zelin He, Ying Sun,* ♦*Jingyuan Liu* and *Runze Li ,* *Jinchi Lv.* |
| 16:15 | Wasserstein Proximal Coordinate Gradient Algorithms  ♦*Xiaohui Chen1, Rentian Yao2* and *Yun Yang2*.  1University of Southern California， 2University of Illinois at Urbana-Champaign |

**Session 24CHI110: Statistical Challenges in Medical Device Clinical Trials**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Xingyu Gao

Chair: Xingyu Gao

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| 15:00 | Statistical Considerations in Clinical Trial Design with Composite Endpoints - Applications in Medical Device Trials  ♦*Yu Shu1 .*  1Abbott Labs |
| 15:25 | Informative Censoring in Survival Analysis  ♦*Chul Ahn1* .  1Edwards Lifesciences |
| 15:50 | Real-World Data Use in Medical Device Regulatory Submission  ♦*Yanglu Zhao1* .  1Edwards Lifesciences |
| 16:15 | Valid Scientific Evidence and Regulatory Considerations for Medical Devices  ♦*Xiwen Liao*1, *Chen Yao*1  1Peking University First Hospital, Peking University Clinical Research Institute |

**Session 24CHI103: Some Recent Advances in Survival Analysis**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Mingyue Du

Chair: Hui Zhao

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| 15:00 | A Conditional Approach for Regression Analysis of Case K Interval-Censored Failure Time Data with Informative Censoring  ♦*Mingyue Du1* and *Xingqiu Zhao2 .*  1Jilin University，2The Hong Kong Polytechnic University |
| 15:25 | Semiparametric Analysis of Generalized Accelerated Hazards Models under Informatively Double-Censored Data  *Rui Ma*1, ♦*Shuying Wang*2, *Jianguo Sun*3 and *Shishun Zhao*4.  1Northeast University, 2Changchun University of Technology, 3University of Missouri and 4Jilin University |
| 15:50 | Regression Analysis of Complier Causal Treatment Effects under the Case-cohort Studies with Interval-censored Data  *Yuqing Ma*1, ♦*Peijie Wang*1， *Jianguo Sun*2.  1Jilin University， 2University of Missouri. |
| 16:15 | Data Integration and Subsampling Techniques in Distribution Estimation for Event Times with Missing Origins  ♦*Yi Xiong* |

**June 29 17:00-18:40**

**Session 24CHI20: Big Data and Nonparametric Time Series Theory and Applications**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Chaohua Dong

Chair: Feipeng Zhang

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| 17:00 | Additive Nonparametric Models with Multivariate Stationary and Nonstationary Variables and Time Trend  *Chaohua Dong*1 and ♦*Xinqi Wu*1. 1Zhongnan University of Economics and Law |
| 17:25 | Model Averaging of Nonparametric Additive Models with Time Trend Based on Series Methods  *Chaohua Dong*1 and ♦*Chen Zhou*1. 1Zhongnan University of Economics and Law |
| 17:50 | Forecasting Arctic Sea Ice Extent in the Long-Run: A Nonlinear Approach  ♦*Li Chen*1 , *Jiti Gao*2 and *Farshid Vahid*2.  1Xiamen University 2Monash University |
| 18:15 | Threshold Expectile Regressions with an Unknown Threshold for Dependent Data  ♦*Feipeng Zhang*1 and *Yundong Tu*2.  1Xi'an Jiaotong University 2Peking University |

**Session 24CHI15: Advancing Interpretability in Statistical and Machine Learning for Transcriptomics and Genomics**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Jun Li

Chair: Jun Li

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| 17:00 | Towards Interpretable Models to Predict DNA Bendability  *Brody Kendall1 and* ♦*Ji-Ping Wang1*.  1Northwestern University |
| 17:25 | Denoising Protein Expression in Droplet-based Single-cell Data  *Ouyang Zhu1* *and* ♦*Jun Li1.*  1University of Notre Dame |
| 17:50 | Constrained Variable Selection with Applications in Statistical Genomics  ♦*Hui Jiang1.*  *1*University of Michigan |
| 18:15 | Integrating Multi-omics Data For Sparse Latent Space Detection  *Alex White*1, *Chi Zhang*1, ♦*Sha Cao*1.  1Indiana University |

**Session 24CHI97: Recent Studies on Machine Learning: from Theory to Application**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Xiao Wang

Chair: Xiao Wang

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| 17:00 | A Gaussian Mixture Model for Multiple Instance Learning with Partially Subsampled Instances  ♦*Baichen Yu*1, *Xuetong Li*1, *Jing Zhou*2 *and Hansheng Wang*1.  1Peking University 2Renmin University of China |
| 17:25 | CNN Aided Slit-Lamp Image Analysis in Corneal Disease Diagnosis  ♦*Yang Yu*1, *Xiao Wang*1, *Dongfang Li*2 *and Zhen Guo*2.  1Qingdao University， 2Qingdao Eye Hospital of Shandong FirstMedical University |
| 17:50 | Revisiting ResNet: a Convolutional Sparse Coding-based Interpretation for Residual Architecture  ♦*Xiaohui Yang*1.  1Henan University |
| 18:15 | Scalable Kernel k-Means with Randomized Sketching: From Theory to Algorithm  ♦*Rong Yin.* |

**Session 24CHI19: Application of Causal Inference Approaches in Global Drug Development**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Jiawei Wei

Chair: Ziqiang Zhao

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| 17:00 | A Hybrid Prior Bayesian Method for Combing Real-world data and External trial data in Bridging Studies  *Keer Chen1, Zengyue Zheng1, Rui Chen1, Pengfei Zhu2, Shuping Jiang2,,Nan Li2,Weiwei Zhao2,Jinmei Chen3 and* ♦*Ying Wu3.*  1Southern Medical University， 2MSD R&D (China)， 3Southern Medical University |
| 17:25 | Bayesian Estimation on Continuous-Time Marginal Structural Models with Unmeasured Confounders  *Haiyan Zhu and* ♦*Yingchun Zhou.* |
| 17:50 | Causal Estimands and Inference for a Principal Stratum of Adherers in Clinical Trials  *Yongming Qu1 and* ♦*Hongying Li1.*  1Eli Lilly |
| 18:15 | Practical Considerations of Applying Propensity Score in Answering Causal Questions When Leveraging External Evidence  ♦*Yuan Tian1.*  1Novartis Institutes for Biomedical Research Co., Shanghai, China |

**Session 24CHI27: Computational Criminal Law**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Ke Xu

Chair: Ke Xu

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| 17:00 | Mixture Conditional Regression with Ultrahigh Dimensional Text Data for Estimating Extralegal Factor Effects  ♦*Jiaxin Shi1, Fang Wang2, Yuan Gao1, Xiaojun Song1 and Hansheng Wang1.*  1Guanghua School of Management, Peking University， 2Data Science Institute, Shandong University |
| 17:25 | “This Crime is Not That Crime” —— Classification and Evaluation of Four Common Crimes  ♦*Ke Xu1, Hangyu Liu1, Fang Wang2 ， Hansheng Wang3.*  1University of International Business and Economics， 2Shandong University 3Peking University |
| 17:50 | Digital Intelligent Public Prosecutor: an Application of Knowledge Graph Models  ♦*Xin Liu.* |
| 18:15 | Nonlinear Saturated Adaptive Estimation Method in Sentencing Data Analysis |

**Session 24CHI30: Efficient Analysis in Statistics and Related Fields**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Tiejun Tong

Chair: Zhijian Li

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| 17:00 | Smoothed Empirical Likelihood for the Difference of Two Quantiles with the Paired Sample  *Pangpang Liu1 ，* ♦*Yichuan Zhao.* 1Purdue University. |
| 17:25 | Efficient Estimation in Homogeneous Partially Linear Models  *Wei Lin1 ，* ♦*Zhijian Li2.*  1Ohio University， 2Beijing Normal University-Hong Kong Baptist University United International College |
| 17:50 | Sequential Quantile Regression for Stream Data by Least Squares  *Ye Fan1 ，* ♦*Nan Lin2.*  1Capital University of Economics and Business， 2Washington University in St. Louis |
| 18:15 | Gene Classification with an OCCA-Based Unsupervised Feature Selection Framework  ♦*Wanjun Ning1.*  1University of Texas at Arlington |

**Session 24CHI39: Innovations in Statistical Methodologies: From Functional Data Analysis to Spatial Modeling**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Jing Wang

Chair: Jing Wang

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| 17:00 | Distributed Heterogeneity Learning for Generalized Partially Linear Models with Spatially Varying Coefficients  ♦*Shan Yu1, Guannan Wang2 ， Li Wang3.*  1University of Virginia， 2College of William and Marry， 3George Mason University |
| 17:25 | Shape Mediation Analysis in Alzheimer’s Disease Studies  *Xingcai Zhou, Miyeon Yeon,* ♦*Jiangyan Wang, Shengxian Ding, Kaizhou Lei, Rongjie Liu and Chao Huang.* |
| 17:50 | Simultaneous Inference for Non-stationary Functional Time Series  *Leheng Cai1 and* ♦*Lijian Yang1.*  1Tsinghua University |
| 18:15 | Partially Functional Linear Quantile Regression with Measurement Error  *Mengli Zhang*1, ♦*Lan Xue*2, *Carmen Tekwe*3, *Yang Bai1* and Annie Qu4.  1Shanghai University of Economics and Finance, 2Oregon State University, 3Indiana University, 4University of California, Irvine. |

**Session 24CHI40: Innovative Machine Learning Approaches in Genomics and Genetics**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Cai Li

Chair: Feifei Xiao

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| 17:00 | MAAT: a New Nonparametric Bayesian Framework for Incorporating Multiple Functional Annotations in Transcriptome-wide Association Studies  ♦*Han Wang1, Teng Li2, Pak Chung Sham3 and Yan Dora Zhang3.*  1China Agricultural University， 2Peking Union Medical College， 3The University of Hong Kong |
| 17:25 | Investigating spatial dynamics in spatial omics data with StarTrail  *Jiawen Chen1, Caiwei Xiong1, Quan Sun1, Gaorav Gupta1, Aritra Halder2,* ♦*Yun Li1 and Didong Li1.*  1University of North Carolina, Chapel Hill， 2Drexel University |
| 17:50 | Seq2Karyotype (S2K): A Method for Deconvoluting Heterogeneity of Copy Number Alterations Using Single-Sample Whole-Genome Sequencing Data  *Limeng Pu1,* ♦*Xiang Chen1 and Jinghui Zhang1.*  1St. Jude Children's Research Hospital |
| 18:15 | PURE: An Integrated Approach for Causal Protein Discovery Leveraging Cis- and Trans-acting Elements  *Zichen Zhang*1, *Bingxin Zhao*2 *and* ♦*Chong Wu*1.  1UT MD Anderson Cancer Center， 2University of Pennsylvania |

**Session 24CHI42: Machine Learning and Causal Inference Advances in Biostatistics**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Chong Wang

Chair: Cindy Yu

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| 17:00 | Contrastive Eigen Analysis for Exploring Hidden Effects  ♦*Yunhui Qi*1, *Yumou Qiu*2, *Peng Liu*1  1Iowa State University, 2Peking University |
| 17:25 | Biclustering Methods with Feature Selection for Omics Data Analysis  ♦*Peng Liu*1, *Zhili Qiao*1  1Iowa State University |
| 17:50 | Random-effects Split Conformal Interval Prediction for Machine Learning Algorithms  *Danyang Zhang*1, ♦*Chong Wang*1  1Iowa State University |
| 18:15 | Quantifying the Global Mediation Effect for Nonsparse High-dimensional Genomics Mediators  *Tianzhong Yang*1, *Zhiyu Kang*1, ♦*Chunlin Li*2  1University of Minnesota, 2Iowa State University |

**Session 24CHI46: Modern Statistical Methods for Time Series Data**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Shujie Ma

Chair: Shujie Ma

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| 17:00 | A Random Graph-based Autoregressive Model for Networked Time Series  ♦*Weichi Wu**and Chenlei Leng* |
| 17:25 | Asymptotics of Sample Tail Autocorrelations for Tail Dependent Time Series: Phase Transition and Visualization  ♦*Ting Zhang*1  *1*University of Georgia |
| 17:50 | No-lose Converging Kernel Estimation of Long-run Variance  *Xu Liu*1 *and* ♦*Kin Wai Chan*1*.*  1The Chinese University of Hong Kong |
| 18:15 | Statistical Inference For Functional Time Series.  ♦*Jie Li*1 and *Lijian Yang*2.  1Renmin University of China， 2Tsinghua University. |
| 18:40 | Detecting Long-range Dependence for Time-varying Linear Models  ♦*Lujia Bai* |

**Session 24CHI85: Recent Development in Survival Data and Event History Data Analysis**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Hui Zhao

Chair: Ni Li

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| 17:00 | Accelerating the Elastic Net Penalized Cox Proportional Hazards Regression Using Safe Screening  ♦*Hong Wang1.*  1Central South University |
| 17:25 | Semi-supervised Estimation of Event Rate with Doubly-censored Survival Data  *Yang Wang1,* ♦*Qingning Zhou2, Tianxi Cai3 and Xuan Wang3.*  1Washington University in St. Louis， 2University of North Carolina at Charlotte， 3Harvard University |
| 17:50 | Empirical Likelihood Inference for the Panel Count Data with Informative Observation Process  *Faysal Satter1, Yichuan Zhao2 and* ♦*Ni Li3.* 1Data Analytics and Computational Intelligence, Lowe’s Companies, 2Georgia State University, 3Hainan Normal University. |
| 18:15 | New Feature Screening Methods for Massive Interval-censored Failure Time Data  ♦*Huiqiong Li*, *Zhimiao Cao*, *Jianguo Sun*, *Niansheng Tang* |

**June 30, 8:00-9:40**

**Session 24CHI5: Advanced Statistical Methods for Bulk and Single-Cell Genomics**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Wei Vivian Li

Chair: Wei Vivian Li

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| 8:00 | Accurate and Efficient Integrative Reference-Informed Spatial Domain Detection for Spatial Transcriptomics  ♦*Ying Ma1, Xiang Zhou2*  1Brown University，2University of Michigan |
| 8:25 | Categorization of 31 Computational Methods to Detect Spatially Variable Genes from Spatially Resolved Transcriptomics Data  ♦*Jingyi Jessica Li*1  1University of California, Los Angeles |
| 8:50 | A Systematic Evaluation ff Highly Variable Gene Selection Methods for Single-cell RNA-Sequencing  *Ruzhang Zhao*1, *Jiuyao Lu*1, *Weiqiang Zhou*1, *Ni Zhao*1, ♦*Hongkai Ji*1  1Johns Hopkins Bloomberg School of Public Health |
| 9:15 | Deconvoluting Cell State Distribution From Bulk RNA-Seq Data  *Liyang*1, *Xiwei Sun*2, *Ting Qi*2, ♦*Jian Yang*3  1Song Westlake University, 2Westlake University, 3Westlake University |

**Session 24CHI29: Early Clinical Trial Development and Biomarker**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Na Yang

Chair: Amy Zhao

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| 8:00 | Evaluation of Pharmacokinetics in Patients with Impaired Renal Function – Study Design, Data Analysis, and Impact on Dosing  ♦*Kong Xin* |
| 8:25 | Statistical Considerations for Non-oncology First-in-human Clinical Trials  ♦*Jiaqing Wang* |
| 8:50 | Statistical Considerations in the Clinical Drug Interaction Studies  ♦*Yanzhen Wu1*.  *1*Sanofi. |
| 9:15 | Biomarker Analysis in Clinical Trial to Assist the Investigation of Drug's Mechanism of Action  ♦*Meiyue Wang1.*  *1*Sanofi |

**Session 24CHI48: New Developments in Modeling High-Dimensional and Complex Data**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Wenbo Wu

Chair: Wenbo Wu

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| 8:00 | Conformal Knock-Off Conditional Independence Test with Double Robustness  ♦*Baoying Yang, Jing Qin, Yukun Liu.* |
| 8:25 | Normalized Power Prior Bayesian Inference and Computation  *Zifei Han*1, *Min Wang*2, *Tianyu Bai*3, ♦*Keying Ye*2.  1University of International Business and Economics, China, 2University of Texas at San Antonio, USA, 3FDA, USA |
| 8:50 | A General Spatial-Temporal Framework for Short-Term Building Temperature Forecasting at Arbitrary Locations with Crowdsourcing Weather Data  *Reisa Widjaja*1, *Wenbo Wu*1, *Zhi Zhou*2, ♦*Renhao Sun*3, *Hannah Fontenot*4, *Bing Dong*4  1The University of Texas at San Antonio, 2Argonne National Laboratory, 3The University of Texas at San Antonio, 4Syracuse University |
| 9:15 | Differentiable Neural Networks with Repu Activation: With Applications to Score Estimation and Isotonic Regression  ♦*Guohao Shen*1, *Yuling Jiao*2, *Yuanyuan Lin*3, *Jian Huang*1  1The Hong Kong Polytechnic University, 2Wuhan University, 3The Chinese University of Hong Kong |

**Session 24CHI82: Recent Advances on High-Dimensional Inference and Generative Models**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Yingying Fan

Chair: Jinchi Lv

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| 8:00 | A Leave-one-out Approach to Approximate Message Passing  ♦*Zhigang Bao1, Qiyang Han2, Xiaocong Xu1*  *1HKUST, 2Rutgers University* |
| 8:25 | SIMPLE-RC: Group Network Inference with Non-Sharp Nulls and Weak Signals  *Jianqing Fan*1, *Yingying Fan*2, *Jinchi Lv*2, ♦*Fan Yang*3  1Princeton University, 2University of Southern California, 3Tsinghua University |
| 8:50 | SOFARI: High-Dimensional Manifold-Based Inference  ♦*Zemin Zheng*1, *Xin Zhou*1, *Yingying* *Fan*2, *Jinchi Lv*2  1USTC, 2USC |
| 9:15 | Approximate Message Passing: A Non-asymptotic Framework and Beyond  ♦*Yuting Wei*1  1University of Pennsylvania |

**Session 24CHI115: Statistical Inference with Lean Assumption**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Zhigen Zhao

Chair: Zhigen Zhao

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| 8:00 | BELIEF in Dependence: Leveraging Atomic Linearity in Data Bits for Rethinking Generalized Linear Models  *Benjamin Brown1,* ♦*Kai Zhang1, Xiao-Li Meng2*  1UNC Chapel Hill, 2Harvard University |
| 8:25 | On Partial Envelope Approach for Modeling Spatial-Temporally Dependent Data  ♦*Zhigen Zhao*1, *Xin Xing*2  1Temple University, 2Virginia Tech University |
| 8:50 | Controlling False Discovery Rate in High-Dimensional Linear Regression: The Gaussian Mirror Approach  ♦*Xin Xing*1, *Zhigen Zhao*2*，Jun Liu*3.  1Virginia Tech, 2Temple University, 3Harvard University. |

**Session 24CHI114: Statistical Genetics: Using Statistical Tools to Elucidate the Genetic Basis of Complex Traits**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Xiaoxuan Xia

Chair: Xiaoxuan Xia

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| 8:00 | Bayesian Inference of Local Genetic Correlation  ♦*Xiaoxuan Xia1, Ming Hin Ng2, Maggie Haitian Wang2, Lin Hou3, Yingying Wei2*  1Tianjin University, 2The Chinese University of Hong Kong, 3Tsinghua University |
| 8:25 | Multi-Omic Genetic Scores for Risk Prediction of Complex Human Diseases  *Yafang Qiu*1, *Lin Hou*2, ♦*Nayang Shan*1. 1Capital University of Economics and Business,  2Tsinghua University |
| 8:50 | A Scalable and Accurate Analysis Framework to Control for Sample Relatedness in Large-scale Genome-wide Association Studies and Its Application to 79 Longitudinal Traits in UK Biobank  ♦*He Xu*, *Wenjian Bi* |
| 9:15 | Leveraging Cross-population Fine-mapping to Strengthen cis-Mendelian Randomization  ♦*Mingxuan Cai*1  1City University of Hong Kong |

**Session 24CHI121: Statistical Methods in Causal Inference and Decision Making**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Jiayi Wang

Chair: Jiayi Wang

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| 8:00 | Communication-Eﬀicient Precision Matrix Estimation by Distributed Refitted Cross-Validation  *Qiao Zheng1, Riquan Zhang2,* ♦*Yan Zhong1.*  1East China Normal University, 2Shanghai University of International Business and Economics |
| 8:25 | Bi-Level Offline Reinforcement Learning  ♦*Wenzhuo Zhou1.*  1University of California Irvine |
| 8:50 | On Learning Necessary and Sufficient Causal Graphs  ♦*Hengrui Cai1.*  1University of California Irvine |
| 9:15 | Time-varying Mediation Analysis for Incomplete Data with Application to DNA Methylation Study for PTSD  ♦*Kecheng Wei*1，*Fei Xue*2， *Qi Xu*3，*Yubai Yuan*4，*Yuexia Zhang*5，*Guoyou Qin*1，*Agaz H. Wani*6，*Derek E. Wildman*6， *Monica Uddin*6，*Annie Qu*3*.*  1Fudan University，2Purdue University, 3University of California Irvine，4Penn State University ，5The University of Texas at San Antonio，6University of South Florida |

**Session 24CHI123: Statistical Modeling for Complex Data**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Jiancheng Jiang

Chair: Fei Chen

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| 8:00 | Unifying Nonparametric Inference for Time Series Data with Long-Range Dependence  ♦*Jiancheng Jiang1.*  *1University of NC Charlotte* |
| 8:25 | Dynamic and Static Enhanced BIRCH for Functional Data Clustering  ♦*Youxi Luo*1, *Wang Li*1, *Maozai Tian*2*.*  1Hubei University of Technology, 2Renmin University of China |
| 8:50 | State-varying Synthetic Control Method  *Yuying Sun*1, ♦*Shaoxin Hong*2, *Yongmiao Hong*1, *Wendun Wang*3, *Xinyu Zhang1.*  1School of Economics and Management, University of Chinese Academy of Sciences, 2Center for Economic Research, Shandong University, 3Econometric Institute, Erasmus University Rotterdam |
| 9:15 | A General Framework to Extend Sufficient Dimension Reductions to the Cases of the Mixture Multivariate Elliptical Distributions  *Wenjuan Li*1, *Hongming Pei*1, *Ali Jiang*1, ♦*Fei Chen1.*  1Yunnan University of Finance and Economics |

**Session 24CHI107: Statistical Advances in Modern Biomedical Applications: Robustness, Privacy, and Heterogeneity**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Sheng Fu

Chair: Sheng Fu

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| 8:00 | Robust Divergence-based High Dimensional Heterogeneous Graphical Modeling  ♦*Rongzhuo Nie1.*  1University of Chinese Academy of Sciences |
| 8:25 | Two Head Neural Network based on Maximum Rank Correlation Loss  ♦*Huichao Li1.*  1University of Chinese Academy of Sciences |
| 8:50 | Summary Statistics-based Association Test for Identifying the Pleiotropic Effects with Set of Genetic Variants  ♦*Deiliang Bu*, *Xiao Wang* and *Qizhai Li*. |
| 9:15 | Identification Of Spatially Variable Pathways For Scrna-Seq Studies  ♦*Han Yan*1 and *Shihua Zhang*1.  1Institute of Mathematics and Systems Science, Chinese Academy of Sciences |

**Session 24CHI62: Recent Advances in Complex Network**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Jingli Wang

Chair: Jingli Wang

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| 8:00 | A Latent Space Model for Weighted Keyword Co-occurrence Networks with Applications in Knowledge Discovery in Statistics  *Yan Zhang*1*,* ♦*Rui Pan*2*, Xuening Zhu*3*, Kuangnan Fang*1 *and Hansheng Wang*4*.*  1Xiamen University, 2Xiamen University Central University of Finance and Economics, 3Fudan University, 4Peking University |
| 8:25 | Distribution-Free Matrix Prediction Under Arbitrary Missing Pattern  *Meijia Shao*1 *and* ♦*Yuan Zhang*1.  1Ohio State University |
| 8:50 | Open-Set Graph Domain Adaptation via Separate Domain Alignment  ♦*Pengsheng Ji*1.  1University of Georgia |
| 9:15 | The Impact of Uncertainty to Humanitarian Relief Operations Resilience and Responsiveness  *Yingying Sun*1, ♦*Ping Wang*2*.*  1Renmin University, 2James Madison University |

**Session 24CHI79: Recent Advances in Statistical Modeling and Computation in Applications with Complex Data Structures**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Min Wang

Chair: Liucang Wu

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| 8:00 | Discounting Effect Size When Borrowing External Data in Clinical Studies  ♦*Zhuanzhuan Ma1, Chul Ahn2, Bin Wang3 and Xuefeng Li3.*  1University of Texas Rio Grande Valley， 2Edwards Lifesciences， 3Food and Drug Administration |
| 8:25 | Metamodeling in Computer Experiment for Quality Design: The Perspective of Statistical Test  ♦*Linhan Ouyang1 and Baoping Tao1.*  1Nanjing University of Aeronautics and Astronautics |
| 8:50 | A Simple Two-Sample Bayesian Hotelling’s T2 for Equality of Means  ♦*Min Wang1.*  1The University of Texas at San Antonio |
| 9:15 | A New Residual Subsampling Method for Skew-normal Mode Regression Model with Massive Data  ♦*Liucang Wu* |

**Session 24CHI68: Recent Advances in Modeling Spatial Transcriptomics Data**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Qiwei Li

Chair: Yang Ni

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| 8:00 | SDEvelo: A Deep Generative Approach for Transcriptional Dynamics with Cell-specific Latent Time and Multivariate Stochastic Modeling  *Xu Liao*1*,* ♦*Jin Liu*1  1The Chinese University of Hong Kong |
| 8:25 | Statistical Identification of Cell type-specific spatially variable genes in spatial transcriptomics  *Lulu Shang, Peijun Wu and* ♦*Xiang Zhou* |
| 8:50 | Integrating transcriptomic and pathomic features to reconstruct 3D tissue maps with super-resolution  ♦*Mingyao L*i1 *and Kyle Coleman*1.  1University of Pennsylvania. |

**June 30 10:00-11:40**

**Session 24CHI13: Advances in Statistical Methods For-Omics Data Analysis**

Room: 1-TIANMEN HALL（天门厅）

Organizer: Hongmei Jiang

Chair: Hongmei Jiang

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| 10:00 | Cluster Analysis of Longitudinal Profiles for Compositional Count Data  *Chenyang Duan*1*,* ♦*Yuan Jiang*2  1AbbVie， 2Oregon State University |
| 10:25 | Mbdecoda: A Debiased Approach to Compositional Data Analysis for Microbiome Surveys  ♦*Tao Wang*1  1Shanghai Jiao Tong University |
| 10:50 | BFAST：Joint Dimension Reduction and Spatial Clustering with Bayesian Factor Analysis for Zero-inflated Spatial Transcriptomics Data  ♦*Yang Xu*1, *Dian Lv*1, *Xin Zhao*1  1BGI-research |
| 11:15 | Large-scale Optimal Transport and Its Application in Biomedical Research  ♦*Jingyi Zhang*1.  1Tsinghua University. |

**Session 24CHI36: High Dimensional Statistical Inference and Its Applications**

Room: 2-SHENNONGJIA HALL（神农架厅）

Organizer: Hengjian Cui

Chair: Hengjian Cui

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| 10:00 | ATM: An Aggregation Test of Moments Approach for Assessing High-Dimensional Normality  *Hengjian Cui*1*,* ♦*Lingyue Zhang*2  1Capital Normal University， 2Dongbei University of Finance and Economics |
| 10:25 | Confidence Intervals for High-dimensional Regression Using Model Selection and Model Averaging  ♦*Wenwen Guo*1, *Yixuan Yin*1  1Capital Normal University |
| 10:50 | Cross Projection Test for High-dimensional Mean Vectors  ♦*Guanpeng Wang*1, *Hengjian Cui*2 |
| 11:15 | A Distance and Kernel-based Framework for Global and Local Two-sample Conditional Distribution Testing  ♦*Zhouxi Li*1, *Jian Yan*2 and *Xianyang* *Zhang*3.  1Xiamen University, 2Cornell University, 3Texas A&M University |

**Session 24CHI63: Recent Advances in Data Integration and Structure Identification**

Room: 3-XIANTAO HALL（仙桃厅）

Organizer: Lu Tang

Chair: Lu Tang

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| 10:00 | Orthogonal Common-source and Distinctive-source Decomposition between High-dimensional Data Views  ♦*Hai Shu1, Hongtu Zhu2*  *1New York University， 2University of North Carolina at Chapel Hill* |
| 10:25 | Estimating Interpretable Heterogeneous Survival Treatment Effect under Counterfactual Framework  *Na Bo*1, ♦*Ying Ding*1  1University of Pittsburgh |
| 10:50 | Integrative Nearest Neighbor Classifiers for Block-missing Multi-modal Data  ♦*Guan Yu*1  1University of Pittsburgh |
| 11:15 | High-Resolution Feature Identification on Data Heterogeneity in High-Dimensional Clustering  ♦*Lyuou Zhang*1，*Lulu Wang*2，*Xiwei Tang*3，*Wen Zhou*4  1School of Statistics and Management, Shanghai University of Finance of Economics， 2Gilead Sciences，3Department of Statistics, University of Virginia， 4Department of Biostatistics, School of Global Public Health,New York University |

**Session 24CHI104: Spatial Data and Semiparametrics**

Room: 4-QIANJIANG HALL（潜江厅）

Organizer: Jin Liu

Chair: Jin Liu

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| 10:00 | Multivariate Spatial Autoregressive Models with Nonlinear Transformation: Specication, Identication and Estimation  ♦*Kai Yang*1, *Lung-fei Lee*1  1Shanghai University of Finance and Economics |
| 10:25 | Multi-relational Network Autoregression Model with Latent Group Structures  ♦*Yimeng Ren1, Xuening Zhu1, Ganggang Xu2, Yanyuan Ma3*  1Fudan University 2University of Miami 3The Pennsylvania State University |
| 10:50 | Nonparametric Network Vector Autoregression  ♦*Zixin Yang*1, *Xiaojun Song*1, *Jihai Yu*1  1Guanghua School of Management, Peking University |
| 11:15 | Shrinkage Estimation for Time Varying High-order Spatial Autoregressive Models  ♦Jin Liu1, Yingqiu Zhu2, Xuening Zhu3, Hansheng Wang4  1Nankai University, 2University of International Business and Economics， 3Fudan University， 4Peking University |

**Session 24CHI109: Statistical and Computational Advances for Complex Biological Data Analysis**

Room: 5-DINGXIANG HALL（丁香厅）

Organizer: Yuehua Cui

Chair: Yuehua Cui

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| 10:00 | Multi-Marker Genetic Association and Interaction Tests Based on the Accelerated Failure Time Model  ♦*Chenxi Li1, Di Wu1, Qing Lu2*  1Michigan State University， 2University of Florida |
| 10:25 | Integrative Modeling of Multi-Omics Information in 3D Chromatin Reveals Complex Disease Mechanisms  *Hao Wang*1, *Jiaxin Yang*1, *Yu Zhang*1, *Jianliang Qian*1, ♦*Jianrong Wang*1  1Michigan State University |
| 10:50 | Novel Ensemble Feature Selection Approach and Application in Repertoire Sequencing Data  ♦*Tao He*1, *Li Zhang*2  1San Francisco State University 2University of California, San Francisco |
| 11:15 | Empirical Likelihood Based Efficient Semiparametric Inference for Longitudinal Data with Application to GAW 18 Data  *Yishan Cui*1, ♦*Honglang Wang*1  1Indiana University-Purdue University Indianapolis |

**Session 24CHI55: Novel Applications of Advanced Statistical Learning Methods to Biomedical Data**

Room: 6-MOLI HALL（茉莉厅）

Organizer: Jian Zou; Li-Xuan Qin

Chair: Jian Zou

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| 10:00 | Systems Approach for Congruence and Selection of Cancer Models Towards Precision Medicine  ♦*Jian Zou*1 |
| 10:25 | Integrative Mulit-omics Data to Define Three Major Subtypes of Neuroblastoma  *Jinhua Fan1,* ♦*Yupeng Cun.*  *1Chongqing* |
| 10:50 | Bregman Divergence-based Transfer Learning with Application to Survival Model Updating and Data Integration  ♦*Kevin He*1 *and Di Wang*1.  1Department of Biostatistics, University of Michigan. |

**Session 24CHI116: Statistical Innovations in Health Outcomes: Risk Predictions, Treatment Effects, & Advanced Regression Techniques**

Room: 7-ENSHI HALL（恩施厅）

Organizer: Yipeng Wei

Chair: Zhengbang Li

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| 10:00 | Joint Modeling of Interval Censored Adenoma Data and Informative Screening to Predict Risk of Advanced Adenoma  ♦*Yipeng Wei1, May AlHusseini1, Qing Pan1, Hormudz katki2, Rajeshwari Sundaram3*  1The George Washington University， 2National Cancer Institute， 3National Institute of Child Health and Human Development |
| 10:25 | Enhanced Polytomous Logistic Regression Model for Multicategory Outcomes  ♦*Sheng Fu*1, *Mark P Purdue*1, *Han Zhang*1, *Jing Qin*2, *Lei Song*1, *Kai Yu*1  1National Cancer Institute，2National Institute of Allergy and Infectious Diseases |
| 10:50 | CeCNN: Copula-enhanced Convolutional Neural Networks in Joint Prediction of Refraction Error and Axial Length Based on Ultra-widefield Fundus Images  ♦*Chong Zhong*1, *Yang Li*2, *Danjuan Yang*2, *Meiyan Li*2, *Xingtao Zhou*2, *Catherine Liu*1 and *Alan Welsh*3  1The Hong Kong Polytechnic University， 2Fudan University， 3Australian National University |
| 11:15 | Testing Heterogeneous Treatment Effect with Quantile Regression under Covariate-Adaptive Randomization  ♦*Yang Liu*1, *Lucy Xia*2, *Feifang Hu*3 1Renmin University of China，2Hong Kong University of Science and Technology， 3The George Washington University |

**Session 24CHI76: Recent Advances in Statistical Methods for Complex Imaging Data**

Room: 8-SUIZHOU HALL（随州厅）

Organizer: Xi Luo

Chair: Xi Luo

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| 10:00 | Density-on-Density Regression  ♦*Yi Zhao*1, *Abhirup Datta*2, *Bohao Tang*2, *Vadim Zipunnikov*3, *Brian Caffo*3  1Indiana University School of Medicine， 2Johns Hopkins University Bloomberg School of Public Health， 3Johns Hopkins University Bloomberg School of Public Health |
| 10:25 | Functional Support Vector Machine with Applications to Brain Imaging Data  *Shanghong Xie*1, ♦*Todd Ogden*2  1Southwestern University of Finance and Economics， 2Columbia University |
| 10:50 | Covariate-guided Bayesian Mixture of Spline Experts for the Analysis fNIRS  *Haoyi Fu1, Lu Tang2, Ori Rosen3, Alison Hipwell2, Theodore Hupperty2,* ♦*Robert Krafty4*  *1*Novartis， *2*University of Pittsburgh， *3*University of Texas El Pas*o 4*Emory University |
| 11:15 | Motion-Invariant Variational Auto-Encoding of Brain Structural Connectomes  *Yizi Zhang*, *Meimei Liu*, ♦*Zhengwu Zhang*, *David Dunson* |

**Session 24CHI95: Recent Statistical Methodology Advances in Genomics and Bioinformatics**

Room: 9-HUANGGANG HALL（黄冈厅）

Organizer: Hao Feng

Chair: Hao Feng

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| 10:00 | CAT: A Conditional Association Test for Microbiome Data Using a Leave-out Approach  ♦*Yushu Shi1, Liangliang Zhang2, Kim-Anh Do3, Robert Jenq3, Christine Peterson3*  1Weill Cornell Medicine， 2Case Western Reserve University， 3University of Texas MD Anderson Cancer Center |
| 10:25 | spVC for the Detection and Interpretation of Spatial Gene Expression Variation  *Shan Yu*1, ♦*Wei Vivian Li*2.  1University of Virginia， 2University of California, Riverside. |
| 10:50 | Robust Mendelian Randomization Analysis by Automatically Selecting Valid Genetic Instruments with Applications to Identify Plasma Protein Biomarkers for Alzheimer’s Disease  *Minhao Yao1, Gary Miller2, Badri Vardarajan2, Andrea Baccarelli3*, ♦*Zhonghua Liu4*  1University of Hong Kong， 2Columbia University， 3Harvard University， 4Rutgers， 5Columbia University |
| 11:15 | Statistical Tools for the Analysis of Differential m6A Methylation  ♦*Zhenxing Guo*  CUHK-Shenzhen |

**Session 24CHI86: Recent Development of Joint Modeling of Longitudinal and Survival Data for Population Health Research**

Room: 10-XIANNING HALL（咸宁厅）

Organizer: Liang Li

Chair: Liang Li

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| 10:00 | On the Time-varying Predictive Performance of Longitudinal Biomarkers and Risk Prediction Models  *Jing Zhang*1, *Jing Ning*2, *Xuelin Huang*2, ♦*Ruosha Li*1.  1The University of Texas Health Science Center at Houston, 2The University of Texas MD Anderson Cancer Center |
| 10:25 | Improving Estimation Efficiency for Survival Data Analysis by Integrating a Coarsened Time-to-Event Outcome from an External Study  *♦Chixiang Chen1, Daxuan Deng2, Ming Wang3.*  1University of Maryland, School of Medicine, 2Penn State university, 3Case Western Reserve University |
| 10:50 | The Backward Joint Model of Multivariate Longitudinal Trajectories and Multivariate Survival Outcomes with Application in Dynamic Prediction Problems  *♦Liang Li*1*.*  1The University of Texas MD Anderson Cancer Center |
| 11:15 | Joint Models of Longitudinal and Survival Data with Censoring and Outliers  ♦*Lang Wu1.*  *1*University of British. |

**Session 24CHI78: Recent Advances in Statistical Methods with Applications in Biomedical Research**

Room: 11-JINGMEN HALL（荆门厅）

Organizer: Panpan Zhang

Chair: Panpan Zhang

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| 10:00 | An Innovative Centile Chart Method for Utilizing Natural History Data in Rare Disease Clinical Development  ♦*Tianying Wang1, Wenfei Zhang2 and Ying Wei3.*  1Colorado State University, 2Sarepta Therapeutics， 3Columbia University |
| 10:25 | A Partially Functional Linear Regression Framework for Integrating Genetic, Imaging, and Clinical Data  ♦*Ting Li1 and Hongtu Zhu2.*  1UShanghai University of Finance and Economics， 2University of North Carolina at Chapel Hill |
| 10:50 | Efficient Designs and Analysis of Two-Phase Studies with Longitudinal Binary Data  ♦*Ran Tao1.*  1Vanderbilt University Medical Center |
| 11:15 | CompDA: Defining and Finding a New Type of Health-Microbiome Associations  ♦*Siyuan Ma1*.  1Vanderbilt University Medical Center. |

**Session 24CHI92: Recent Developments in Statistical Machine Learning**

Room: 12-EZHOU HALL（鄂州厅）

Organizer: Xingqiu Zhao

Chair: Xingqiu Zhao

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| 10:00 | Conditional Modeling of Panel Count Data with Partly Interval-censored Failure Event  ♦*Xiangbin Hu*1, *Wen Su*2, *Zhisheng Ye*3 and *Xingqiu Zhao*1*.*  1The Hong Kong Polytechnic University， 2City University of Hong Kong， 3National University of Singapore |
| 10:25 | Variable Selection with Deep Differential Neural Networks  ♦*Yu Chen*1, *Jian Huang*1, *Guohao Shen*1 and *Xingqiu Zhao*1*.*  1The Hong Kong Polytechnic University |
| 10:50 | Deep Generalized Accelerated Hazards Model with Interval-censored Data  ♦*Qiang Wu*1, *Mingyue Du*1 *and Xingqiu Zhao*1  1The Hong Kong Polytechnic University 2Jilin University |
| 11:15 | Strategic Statistical Learning for Some Applications  ♦*Xiaodong Yan* |