



2025

第三届全国统计与数据科学联合会议

THE 3rd JOINT CONFERENCE ON STATISTICS AND DATA SCIENCE IN CHINA



扫码进入照片直播

会议手册 PROGRAM

主办单位：

Host Organization:

中国现场统计研究会

Chinese Association for Applied Statistics

中国概率统计学会

Chinese Society for Probability and Statistics

全国工业统计学教学研究会

Chinese Association for Industrial Statistics Teaching

中国商业统计学会

Commerce Statistics Society of China

IMS-CHINA

中华预防医学会生物统计分会

Biostatistics Branch of Chinese Preventive Medicine Association

承办单位：

Organizer:

浙江大学数据科学研究中心

Center for Data Science, Zhejiang University

协办单位：

Co-organizer:

浙江省现场统计研究会

Zhejiang Society of Applied Statistics

中国·杭州

HANGZHOU·CHINA

2025年7月11-13日

JULY 11-13, 2025





Contents

Welcome	1
Conference Information	2
About Zhejiang University	3
About Center for Data Science	5
List of Exhibitors	7
Transportation Guide	8
Accommodation	13
Venue Map	14
Conference Registration	15
During Your Stay	15
Series of Activities	18
Program Overview	19
Plenary Talks	21
Panel Discussions	27
Poster Session	29
Scientific Program	33
 2025-07-11 08:30-09:00	
Opening Ceremony	33
 2025-07-11 09:00-09:50	
Plenary Talk 1	
Physics-informed learning and uncertainty quantification	
C. F. Jeff Wu, Room: Golden Hall	33
 2025-07-11 10:10-11:00	
Plenary Talk 2	
Causal Inference : History, Contributions, and Future	
James M. Robins, Room: Golden Hall.....	33
 2025-07-11 11:00-11:50	
Plenary Talk 3	
Robust Consensus Learning with Multi-Institutional EHR Data: Opportunities and Challenges	
Tianxi Cai, Room: Golden Hall	33
 2025-07-11 12:00-13:30	
China-Japan-Korea Academic Exchange Session (Invitation Only)	33
 2025-07-11 13:30-15:10	
IS001: Causal Inference in Observational Studies	
Organizer: Zhi Geng, Room: Golden Hall 1+2.....	33
IS003: Recent Advances in Diffusion Models	



Organizer: Ji Zhu, Room: Golden Hall 3	33
IS005: Resampling Methods and Survival Data Analysis	
Organizer: Niansheng Tang, Room: Xiangyun Hall	33
IS013: Statistical Analysis of Complex Data	
Organizer: Ming-Yen Cheng, Room: Ziguang Hall A	34
IS021: Latent Class Modeling and Missing Data	
Organizer: Xiaohua Zhou, Room: Ziguang Hall B	34
IS051: Latest on Statistical and Machine Learning	
Organizer: Songxi Chen, Room: Ziguang Hall C	34
IS037: Comprehensive Evaluation and Statistical Decision Making based on big data	
Organizer: Weihua Su, Room: Dongfang Hall A	34
IS045: Bernoulli Special Session on Theoretical Statistics	
Organizer: Ajay Jasra, Room: Dongfang Hall B	34
IS042: Advances in Machine Learning Methods for Clinical Studies	
Organizer: Peter Song, Room: Baiyuan Hall	34
CS001: Advances in Extreme Quantile Inference and High-Dimensional Testing	
Room: Ziguang Hall E	35
IS068: Recent Advances in Complex Data Analysis	
Organizer: Chen-Hung Kao, Room: Huaide Hall	35
CS007: Advances in Causal Inference with Complex and Missing Data	
Room: Xingde Hall	35
IS076: Advances in Risk and Uncertainty: Modeling, Quantification, and Learning	
Organizer: Qihe Tang, Zhongde Hall	35
IS084: Recent Advances in Statistical Learning and Machine Learning	
Organizer: Dingke Tang, Room: Meeting Room B	35
IS053: Novel Methods for Large-scale Genetic and Health Data Analysis	
Organizer: Jianqiao Wang, Room: Zhicheng Room	36
CS003: Recent Advances in Structured and High-Dimensional Time Series Modeling	
Room: Wende Hall	36
CS004: Advances in Federated Learning and Distributed Statistical Inference	
Room: Ziguang Hall D	36
CS005: Innovative Approaches to Spatio-Temporal and High-Dimensional Data Analysis	
Room: Meeting Room C	36
CS006: Frontiers in Statistical Learning for Complex Time Series and Networks	
Room: Meeting Room D	36
IS091: From Experiments to Tensors: Innovations in High-Dimensional Statistical Methods	
Organizer: Shiyuan He, Room: Xinde Hall	37

2025-07-11 15:30-17:10

IS002: Recent Advances in Network Research	
Organizer: Heping Zhang, Room: Golden Hall 1+2	37
IS004: Conformal Inference and Selective Inference	
Organizer: Wenguang Sun, Room: Golden Hall 3	37
IS006: Recent Development on High Dimensional and Spatial Data Analysis	
Organizer: Hengjian Cui, Room: Xiangyun Hall	37



IS078: Research on the Frontier Issues of Complex System Networks in Economic and Social	
Organizer: Yanyun Zhao, Room: Ziguang Hall A.....	37
IS022: Advanced Modelling Techniques for Complex Structures	
Organizer: Xueqin Wang, Room: Ziguang Hall B	38
IS030: Recent Advancements in Deep Learning Theory	
Organizer: Yuling Jiao, Room: Ziguang Hall C	38
IS038: Recent Advances in Modeling Structured Data	
Organizer: Jingfei Zhang, Room: Dongfang Hall A	38
IS046: Advances in Statistical Methods for Genetic and Omics Data Analysis	
Organizer: Pei Wang, Room: Dongfang Hall B	38
IS054: New machine and deep learning tools in neuroscience, wearable device and genetics data	
Organizer: Annie Qu, Room: Baiyuan Hall	38
IS061: Quantile Regression and Beyond for High-dimensional and Complex Data	
Organizer: Xinyuan Song, Room: Ziguang Hall E	39
IS029: Foundations and Applications of Modern Machine Learning	
Organizer: Hongtu Zhu, Room: Huaide Hall	39
CS013: Bayesian Frontiers in High-Dimensional and Structured Data Analysis	
Room: Xingde Hall	39
IS077: Modern Approaches to High-Dimensional Analysis	
Organizer: Seyoung Park, Room: Zhongde Hall.....	39
IS085: Modern Bayesian Computation and Applications	
Organizer: Cheng Zhang, Room: Meeting Room B	39
CS008: Advances in Causal Inference for Fair and Robust Decision Making	
Room: Zhicheng Room.....	40
CS009: Recent Advances in Time Series, Risk Modeling, and High-Dimensional Regression	
Room: Wende Hall.....	40
CS010: Advances in Factor-Augmented and Financial Modeling	
Room: Ziguang Hall D.....	40
CS011: Advances in Personalized and Survival Data Analysis	
Room: Meeting Room C	40
CS012: Modern Approaches to Robust Learning and Inference	
Room: Meeting Room D.....	40
IS092: Statistical Analysis of Network Data	
Organizer: Kuangnan Fang, Room: Xinde Hall.....	40
 2025-07-11 18:00-19:30	
Poster Session	
Room: Poster Exhibition Area (2 nd floor)	41
 2025-07-11 19:00-20:30	
Launch Ceremony of <i>ECPH Encyclopedia of Statistics</i>	
Room: Ziguang Hall C.....	41
 2025-07-12 08:30-09:20	
Plenary Talk 4	



Towards an understanding of the principles behind deep learning	
Weinan E, Room: Golden Hall.....	41

2025-07-12 09:20-10:10

Plenary Talk 5

Statistics in the Era of Large Models	
Jian Huang, Room: Golden Hall	41

2025-07-12 10:30-11:20

Plenary Talk 6

Generative AI for Economic Equilibrium Analyses and Financial Applications	
Will Cong, Room: Golden Hall	41

2025-07-12 11:20-12:10

Panel Discussion: Strategies and Best Practices in Academic Writing

Room: Golden Hall	41
-------------------------	----

2025-07-12 13:30-15:10

IS007: Causal Inference

Organizer: Xiaohua Zhou, Room: Xiangyun Hall	41
--	----

IS015: Recent Advances in Statistical Network Analysis

Organizer: Ji Zhu, Room: Ziguang Hall A.....	41
--	----

IS023: Recent Methods in High-Dimensional Inference and Machine Learning

Organizer: Yumou Qiu, Room: Ziguang Hall B.....	41
---	----

IS031: AI for Financial Economics

Organizer: Jianqing Fan, Room: Ziguang Hall C	42
---	----

IS039: 健康医疗大数据分析

Organizer: Xiuhua Guo, Room: Dongfang Hall A.....	42
---	----

IS047: Recent Advances in Tensor Data Analysis

Organizer: Di Wang, Room: Dongfang Hall B	42
---	----

IS055: Bernoulli Special Session on Applied Probability

Organizer: Ajay Jasra, Room: Baiyuan Hall	42
---	----

IS062: Statistical Methods Elevated by Modern Computation and Massive Data

Organizer: Yanyuan Ma, Room: Ziguang Hall E	42
---	----

IS070: Economic Statistics and High Quality Economic Development

Organizer: Weiying Ping, Room: Huaide Hall.....	43
---	----

CS019: Empirical Advances in Economic Policy and Machine Learning Applications

Room: Xingde Hall	43
-------------------------	----

IS089: Statistics for Reliable AI

Organizer: Yuhong Yang, Room: Zhongde Hall	43
--	----

IS086: Theory and Methodologies in Orthogonal Experimental Design

Organizer: Hong Qin, Room: Meeting Room B	43
---	----

CS014: Advances in High-Dimensional Learning and Optimization

Room: Zhicheng Room.....	43
--------------------------	----

IS090: Recent Advances in Complex Network



Organizer: Jingli Wang, Jialiang Li, Room: Wende Hal 1.....	44
CS016: Advances in Spatial and Causal Inference with Robust Statistical Methods	
Room: Ziguang Hall D.....	44
CS017: Innovative Statistical Approaches for Complex Biomedical Challenges	
Room: Meeting Room C.....	44
CS018: Advances in Statistical Learning for Complex Clinical and Neuroimaging Data	
Room: Meeting Room D.....	44
IS093: Statistical Model and Machine Learning Methods for Single Cell Data Analysis	
Organizer: Minghua Deng, Room: Xinde Hall.....	44
2025-07-12 15:30-17:10	
IS008: Recent Developments of Prediction and Inference for High-dimensional Models	
Organizer: Hui Zou, Room: Xiangyun Hall.....	45
IS016: Recent Progress in Statistical Machine Learning	
Organizer: Zijian Guo, Wenguang Sun, Room: Ziguang Hall A.....	45
IS024: 大数据计量经济模型:理论与应用	
Organizer: Weiguo Wang, Room: Ziguang Hall B.....	45
IS032: Statistical Learning in Medicine	
Organizer: Jialiang Li, Room: Ziguang Hall C.....	45
IS040: Handling Imperfect Data in Complex Problems	
Organizer: Yanyuan Ma, Room: Dongfang Hall A.....	45
IS048: Recent advances in statistical learning and machine learning	
Organizer: Zhanrui Cai, Room: Dongfang Hall B.....	45
IS056: 医疗器械临床试验统计方法学	
Organizer: Wei Li, Room: Baiyuan Hall.....	46
IS063: Advanced Statistical Methods for Clinical and Biomedical Data Analysis	
Organizer: Xinyuan Song, Room: Ziguang Hall E.....	46
IS071: Statistical Methods in Deep Learning	
Organizer: Hongxin Wei, Room: Huaide Hall.....	46
CS023: Advances in High-Dimensional Inference and Graphical Modeling	
Room: Xingde Hall.....	46
IS079: Statistical inference with complex data	
Organizer: Byeong U. Park, Room: Zhongde Hall.....	46
IS087: 均匀设计理论与方法	
Organizer: Hong Qin, Room: Meeting Room B.....	46
CS041: Advances in Statistical Theory and Methods for Complex Dependence Structures	
Room: Zhicheng Room.....	47
CS015: Next-Generation Statistical Methods for Complex Data Integration	
Room: Wende Hall.....	47
CS020: Innovations in Flexible Modeling for Digital Economies and Network Structures	
Room: Ziguang Hall D.....	47
CS021: Innovations in Statistical Learning for Multimodal Data Analysis	
Room: Meeting Room C.....	47
CS022: Advances in Bayesian and Machine Learning Methods for Biomedical Data Science	
Room: Meeting Room D.....	47



IS094: Recent advancement of adaptive experiments

Organizer: Jingshen Wang, Room: Xinde Hall48

2025-07-12 18:30-19:30

Panel Discussion: Strategies and Insights for Successful Grant Applications48

2025-07-13 08:30-10:10

IS009: Inference for High Dimensional Data

Organizer: Ming-Yen Cheng, Room: Xiangyun Hall.....48

IS017: Statistical and Federated Learning for Survival Analysis

Organizer: Xinyuan Song, Room: Ziguang Hall A48

IS025:The Statistician's Role in Generative AI Security: Theory, Algorithms, and Open Challenges

Organizer: Hongtu Zhu, Room: Ziguang Hall B.....48

IS033: Recent Developments of Bayesian Methods for Modern Biomedical Data Analysis

Organizer: Guanyu Hu, Meng Li, Room: Ziguang Hall C.....48

IS041: Model Averaging and Related Topics

Organizer: Xinyu Zhang, Room:Dongfang Hall A49

IS049: Changepoint detection, risk control, and clustering under social networks

Organizer: Catherine Liu, Room:Dongfang Hall B49

IS057: Recent Advances in Causal Inference

Organizer: Kean Ming Tan, Room: Baiyuan Hall.....49

IS064: Statistical and Machine Learning Advances

Organizer: Xueqin Wang, Room: Ziguang Hall E49

IS072: Recent Advancement in Causal Inference

Organizer: Zijian Guo, Room: Huaide Hall49

CS030: Advanced Learning Methods for Dynamic Treatment and Disease Progression

Room: Xingde Hall50

IS080: Network Structure & Model: New Insights and Applications

Organizer: Binghui Liu, Room: Zhongde Hall50

CS024: Advances in Statistical Modeling and Inference for Complex Data Structures

Room: Meeting Room B50

CS025: Modern Statistical Learning for High-Dimensional and Structured Data

Room: Zhicheng Room.....50

CS026: Digital Transformation and Financial Econometrics: Methods and Applications

Room: Wende Hall.....50

CS027: Modern Statistical Methods for High-Dimensional and Networked Data Analysis

Room: Ziguang Hall D.....51

CS028: Modern Statistical Methods for High-Dimensional Biomedical Data

Room: Meeting Room C51

CS029: Advances in Spatio-Temporal and Financial Forecasting

Room: Meeting Room D.....51

IS095: 地球物理学中的前沿统计方法

Organizer: Songxi Chen, Room: Xinde Hall51

**2025-07-13 10:30-12:10**

IS010: Large Language Model and Deep Learning	
Organizer: Wenguang Sun, Room: Xiangyun Hall	52
IS018: High-dimensional Data Analysis: Estimation and Inference	
Organizer: Xuejun Jiang, Room: Ziguang Hall A	52
IS026: Generalizability and distribution shift	
Organizer: Xinwei Shen, Room: Ziguang Hall B	52
IS034: Advanced Computational Methods for Omics Data Analysis and Disease Understanding	
Organizer: Pingzhao Hu, Room: Ziguang Hall C	52
IS073: Innovative Statistical Learning Approaches in Data Science	
Organizer: Xinyuan Song, Room: Dongfang Hall A	52
IS050: High dimensional statistics and tensor analysis	
Organizer: Xingdong Feng, Room: Dongfang Hall B	53
IS058: Causal discovery and causal inference	
Organizer: Xueli Wang, Room: Baiyuan Hall.....	53
IS065: Statistical modeling and inference for complex time series data	
Organizer: Qianqian Zhu, Room: Ziguang Hall E	53
IS088: Data Privacy Protection and High Dimensional Data Analysis	
Organizer: Jia Gu, Room: Huaide Hall	53
CS036: Emerging Frontiers in Digital Economy and Regional Development	
Room: Xingde Hall	53
IS081: Data Science in Statistical Seismology	
Organizer: Jiancang Zhuang, Room: Zhongde Hall.....	54
CS002: Advances in Generative Modeling and Bayesian Computation	
Room: Meeting Room B	54
CS031: Advances in Graph-Based Learning and Network Analysis	
Room: Zhicheng Room.....	54
CS032: Advances in Transfer Learning and Multi-Task Learning	
Room: Wende Hall.....	54
CS033: Methodological Advances in Environmental and Policy Evaluation	
Room: Ziguang Hall D.....	54
CS034: Advanced Statistical Learning for Clinical Decision Making and Brain Disorders	
Room: Meeting Room C	55
CS035: Cutting-Edge Methods for Causal and High-Dimensional Biomedical Analysis	
Room: Meeting Room D.....	55
IS096: Asymptotic Theory for Dependent Random Variables	
Organizer: Zhuosong Zhang, Room: Xinde Hall	55

2025-07-13 13:30-15:10.....55

IS011: Recent Advances of Adaptive Designs	
Organizer: Feifang Hu, Room:Xiangyun Hall	55
IS019: Machine Learning and AI Methods for Single-Cell and Spatial Genomics	
Organizer: Jin Liu, Room: Ziguang Hall A.....	56
IS027: Advances in Modern Statistical Learning and Inference	
Organizer: Huixia Judy Wang, Room: Ziguang Hall B	56



IS035: New Developments of Statistical Learning for the Analysis of Complex Biomedical Data	
Organizer: Peter Song, Room: Ziguang Hall C	56
IS043: High Dimensional Statistics	
Organizer: Ming-Yen Cheng, Room: Dongfang Hall A.....	56
IS069: Recent Advancements in Uncertainty Quantification	
Organizer: Zijian Guo, Molei Liu, Room: Dongfang Hall B	56
IS059: Statistical Inference Meets Decision Making	
Organizer: Wenxin Zhou, Room: Baiyuan Hall	56
IS066: The Interface of Statistics, Optimization, and Artificial Intelligence	
Organizer: Xingdong Feng, Room: Ziguang Hall E	57
IS075: Complex Data Analysis with Applications	
Organizer: Xinbing Kong, Room: Huaide Hall	57
CS043: Advances in Robust and Interpretable Causal Inference with Complex Data	
Room: Xingde Hall	57
IS082: Advancing Learning Techniques and Diagnostic Methods for Analyzing Complex Survival Data	
Organizer: Yu Cheng, Room: Zhongde Hall	57
CS037: Advances in Deep Learning Architectures and Applications	
Room: Meeting Room B	57
CS038: Recent Advances in High-Dimensional Robust Regression	
Room: Zhicheng Room.....	58
CS039: AI-Driven Solutions for Economic and Environmental Challenges	
Room: Wende Hall.....	58
CS040: Advances in Statistical Learning for Economic and Financial Modeling	
Room: Ziguang Hall D.....	58
CS042: Emerging Methods in Causal Inference and Multi-Omics Integration	
Room: Meeting Room D.....	58
IS097: 拉丁超方设计方法与应用	
Organizer: Hong Qin, Room: Xinde Hall	59

2025-07-13 15:30-17:10

IS012: Networks, Inference and Predictions	
Organizer: Linda Zhao, Room: Xiangyun Hall.....	59
IS020: Machine Learning and its Application	
Organizer: Bingyi Jing, Room: Ziguang Hall A	59
IS028: Novel Inference and Computing Developments in Modern Statistics	
Organizer: Minge Xie, Room: Ziguang Hall B.....	59
IS036: Best Practice of the Hawkes Process and its Variants	
Organizer: Jiancang Zhuang, Room: Ziguang Hall C.....	59
IS044: Recent Advances in Statistical Learning	
Organizer: Jiashun Jin, Room: Dongfang Hall A.....	59
IS052: Recent developments in decision-making and policy learning	
Organizer: Zhengling Qi, Xingyuan Fang, Room: Dongfang Hall B	60
IS060: Variational Bayesian inference and complicated data analysis	
Organizer: Niansheng Tang, Room: Baiyuan Hall.....	60



IS067: Matrix Data Analysis and its Applications	
Organizer: Wang Zhou, Room: Ziguang Hall E.....	60
CS049: Innovative Approaches to Modern Data Challenges	
Room: Huaide Hall	60
CS051: Innovations in Experimental Design and Statistical Inference	
Room: Xingde Hall	60
IS083: Financial Statistics and its Application	
Organizer: Zhi Liu, Room: Zhongde Hall.....	60
CS045: Advanced Learning Methods for Complex Decision Systems	
Room: Meeting Room B	61
CS046: Advances in High-Dimensional Statistical Learning and Inference	
Room: Zhicheng Room.....	61
CS047: Policy Evaluation and Economic Modeling in Sustainable Development	
Room: Wende Hall.....	61
CS048: Advances in Model Selection and Specification Testing	
Room: Ziguang Hall D.....	61
CS050: Modern Statistical Methods for Precision Medicine and Genomics	
Room: Meeting Room D.....	61
CS044: Advances in Optimization and Variable Selection Methods	
Room: Xinde Hall	62



2025

第三届全国统计与数据科学联合会议





Welcome

The 3rd Joint Conference on Statistics and Data Science in China (JCSDS 2025), is jointly initiated by the Chinese Association for Applied Statistics, Chinese Society for Probability and Statistics, Chinese Association for Industrial Statistics Teaching, Commerce Statistics Society of China, and Biostatistics Branch of Chinese Preventive Medicine Association, with academic support from IMS China and The Bernoulli Society, and co-organized by the Zhejiang Society of Applied Statistics.

The conference has been successfully held twice in the past two years, aiming to establish a high-level platform for academic communication, enhance the international perspective of researchers and practitioners in the fields of statistics and data science, and provide broader academic resources and opportunities for collaboration. The conference will continue to explore the newest research trends and practical experiences, share cutting-edge theoretical and applied results, stimulate innovative academic atmosphere, promote intellectual exchange, and foster interdisciplinary collaboration to address the complex scientific and technological challenges.

The 3rd Joint Conference will be held from July 11th to 13th, 2025, at Taixuhu Holiday Hotel in Hangzhou (with registration on July 10th). Organized by Center for Data Science, Zhejiang University, the conference will feature more than 150 academic sessions, including plenary talks, invited talks, contributed presentations, and poster exhibitions, as well as corporate exhibitions and talent recruitment, attracting nearly 2,000 participants. The conference will showcase new ideas, technologies, and advancements in the field of statistics and data science from multiple perspectives.

Hangzhou, historically known as "Paradise on Earth", has long been a source of inspiration for scholars and artists, and is a symbol of Jiangnan culture. As a pioneer of China's scientific and technological innovation, Hangzhou, with its unique geographical location and profound historical heritage, serves as an ideal platform to showcase the integration of traditional Chinese culture and modern civilization. Zhejiang University, rooted in this land of natural beauty, is one of China's top universities with a prestigious academic reputation both domestically and internationally. The university not only possesses world-leading research facilities but also gathers internationally renowned academic teams. With an open and inclusive attitude, Zhejiang University attracts top scholars from around the world for in-depth exchanges and cooperation. Here, the beauty of nature, the charm of culture, and cutting-edge technology come together, creating an unparalleled academic atmosphere for this conference.

We sincerely invite all relevant institutions, experts, and scholars in the field of statistics and data science all over the world to participate in this grand event. We look forward to gathering in Hangzhou to share the latest developments in statistics and data science and to jointly promote the development and innovation of this important field!



Conference Information

Conference Committees

Advisory Committee

Min Chen (Chinese Academy of Sciences)
(Rotating Chair)

Jianqing Fan (Princeton University)

Jianhua Guo (Beijing Technology and Business University)

Yongjin Jin (Renmin University of China)

Zhaojun Wang (Nankai University)

Songxi Chen (Tsinghua University)

Zhi Geng (Beijing Technology and Business University, Peking University)

Hong Ji (Capital University of Economics and Business)

Huazhen Lin (Southwestern University of Finance and Economics)

Wei Yuan (Renmin University of China)

Program Committee

Co-Chairs:

Jianhua Guo (Beijing Technology and Business University)

Xuming He (Washington University in St. Louis)

Associate Chairs:

Economic Statistics and Econometrics:

Jianqing Fan (Princeton University)

Yongmiao Hong (University of Chinese Academy of Sciences)

Medical and Biostatistics:

Peter Song (University of Michigan)

Xiaohua Zhou (Peking University)

Machine Learning and Artificial Intelligence:

Jian Huang (Hong Kong Polytechnic University)

Hongtu Zhu (University of North Carolina at Chapel Hill)

Interdisciplinary Studies:

Songxi Chen (Tsinghua University)

Heping Zhang (Yale University)

Organizing Committee

Co-Chairs:

Wenguang Sun (Zhejiang University)

Jing Ruan (Capital University of Economics and Business)

Associate Chairs:

Yifan Cui (Zhejiang University)

Wei Luo (Zhejiang University)

Short Courses Committee

Co-Chairs:

Jiashun Jin (Southeast University)

Wenguang Sun (Zhejiang University)



浙江大学概况

浙江大学是一所历史悠久、声誉卓著的高等学府，坐落于中国历史文化名城、风景旅游胜地杭州。浙江大学的前身求是书院创立于 1897 年，为中国人自己最早创办的新式高等学校之一。1928 年，定名国立浙江大学。抗战期间，浙大举校西迁，在贵州遵义、湄潭等地办学七年，1946 年秋回迁杭州。1952 年全国高等学校院系调整时，浙江大学部分系科转入兄弟高校和中国科学院，留在杭州的主体部分被分为多所单科性院校，后分别发展为原浙江大学、杭州大学、浙江农业大学和浙江医科大学。1998 年，同根同源的四校实现合并，组建了新浙江大学，迈上了创建世界一流大学的新征程。在 128 年的办学历程中，浙江大学始终秉承以“求是创新”为校训的优良传统，逐步形成了“勤学、修德、明辨、笃实”的浙大人共同价值观和“海纳江河、启真厚德、开物前民、树我邦国”的浙大精神。

浙江大学是一所特色鲜明、在海内外有较大影响的综合型、研究型、创新型大学，学科涵盖哲学、经济学、法学、教育学、文学、历史学、理学、工学、农学、医学、管理学、艺术学、交叉学科等 13 个门类，设有 7 个学部、40 个专业学院（系）、1 个工程师学院、2 个中外合作办学学院、7 家直属附属医院。学校现有紫金港、玉泉、西溪、华家池、之江、舟山、海宁等 7 个校区，占地面积 7430707 平方米，图书馆总藏书量 819.2 万册。截至 2024 年底，学校有全日制学生 70035 人、国际学生 6360 人、教职工 9649 人。2022 年，浙江大学入选第二轮“双一流”建设高校，21 个学科入选一流学科建设名单，绝大多数学科在第五轮学科评估中取得可喜进步。

浙江大学紧紧围绕“德才兼备、全面发展”的核心要求，全面落实立德树人根本任务，加快构建以学生成长为中心的卓越教育体系，着力培养德智体美劳全面发展、具有全球竞争力的高素质创新人才和领导者。在长期的办学历程中，学校涌现出大批著名科学家、文化大师以及各行各业的精英翘楚，包括 1 位诺贝尔奖获得者、5 位国家最高科技奖得主、4 位“两弹一星”功勋奖章获得者、1 位“八一勋章”获得者、1 位全军挂像英模、5 位国家荣誉称号获得者、6 位“最美奋斗者”和 230 余位两院院士等杰出典型，为实现中华民族伟大复兴、推进人类文明交流互鉴作出了积极贡献。

浙江大学注重精研学术和科技创新，主动服务重大战略需求，加快打造国家战略科技力量，建设了一批开放性、国际化的高端学术平台，汇聚了各学科的学者大师和高水平研究团队，产生了以国家科技进步特等奖为代表的一系列重大科技成果。

“国有成均，在浙之滨”。浙江大学将坚定不移以习近平新时代中国特色社会主义思想为指导，坚持“更高质量、更加卓越、更受尊敬、更有梦想”的战略导向，致力于思想引领和知识创新，培育担当民族复兴大任的时代新人，为中国式现代化和人类文明进步作出卓越贡献。



About Zhejiang University

Zhejiang University is a prestigious institution of higher education with a long history, located in Hangzhou, a renowned historical and cultural city as well as a scenic tourist destination in China. The forerunner of Zhejiang University, Qiushi Academy, was founded in 1897 as one of China's earliest modern-day institutions of higher education independently established by Chinese scholars. Throughout its 128-year history, Zhejiang University has consistently upheld the fine tradition embodied in its motto: Seeking Truth and Pursuing Innovation.

Today, Zhejiang University has developed into a comprehensive, research-intensive, and innovative institution with distinguished characteristics and significant global influence. Its academic disciplines span 13 categories, including Philosophy, Economics, Law, Education, Literature, History, Science, Engineering, Agriculture, Medicine, Management, Arts, and Interdisciplinary Studies, comprising 7 faculties, 40 schools/departments, 1 polytechnic institute, 2 Sino-foreign cooperative education colleges, and 7 affiliated hospitals. In 2022, ZJU was selected into the second round of the national "Double First-Class" initiative. 21 of its disciplines were listed for development as world-class disciplines, and the vast majority of its disciplines showed notable improvement in the fifth round of China's national discipline evaluation. The university operates across 7 campuses spanning 7,430,707 square meters, with a library collection of 8.192 million volumes. As of the end of 2024, the university had a total of 70,035 full-time students, 6,360 international students, and 9,649 faculty members.

Zhejiang University is dedicated to academic excellence and technological innovation, proactively addressing major strategic needs. The university is accelerating its efforts to become a strategic force in science and technology, having established a series of open and internationally-oriented high-end academic platforms. These platforms bring together distinguished scholars and top-tier research teams across disciplines, yielding significant scientific achievements including the prestigious State Preeminence in Science and Technology Award.

Zhejiang University will adhere to its strategic approach of pursuing higher quality, greater excellence, deeper respect, and stronger aspirations. Committed to intellectual leadership and knowledge innovation, the university dedicates itself to cultivating a new generation capable of shouldering the mission of national rejuvenation, thereby making exceptional contributions to the Chinese path to modernization and the advancement of human civilization.



浙江大学数据科学研究中心简介

“浙江大学数据科学研究中心”成立于 2017 年 5 月 18 日，是以统计学、应用数学、计算机科学和管理学为核心支撑学科，以大数据理论、应用研究和人才培养为主的校设学术创新研究机构。研究中心强调与经济学、医学、生命科学、社会学、工学等众多学科领域的交叉融合，在获取基础研究的硕果同时，注重于科研技术成果的转化。

研究中心的核心目标是通过机制创新，汇聚海内外高层次统计学、计算机科学、应用数学、管理科学等数据科学相关人才，组建高水平专业化研究队伍，聚焦大数据分析，机器学习，人工智能等重点方向，开展具有前瞻性的国际领先水平的研究。研究中心现有专任教师 9 人，师资队伍实力雄厚，其中 1 人入选国家高层次人才计划，4 人入选国家青年人才计划，2 人入选浙江省高层次人才计划，1 人入选浙江省青年人才计划。

研究中心设立数据科学教学平台，面向国家战略与产业需求，构建了本硕博多层次培养体系，着重培养复合型数据科学人才。在本科层面，研究中心开设“数据科学与大数据技术”微专业项目；在硕士层面，开设“数据科学与工程”全日制专业学位项目；同时培养博士研究生，博士生专业涵盖概率论与数理统计、应用数学、计算机科学与技术、管理科学与工程。现有硕博研究生 70 余人。研究中心为学生提供一流的学术环境与发展平台，定期邀请海内外顶尖学者开设前沿学术报告，并资助丰富的海外交流机会，致力于培养掌握尖端科学知识的高水平、精技术数据科学稀缺人才。

在科学研究方面，研究中心聚焦数据科学前沿，在统计决策理论、大规模统计推断、因果机器学习、数据融合分析、复杂数据降维、数据治理与服务、计算生物学、空间数据分析与应用等方向从事学术研究。研究中心师生研究成果丰硕，在统计学、医学、信息科学、机器学习等领域的顶级国际期刊、计算机顶级会议以及综合类权威期刊上发表了一系列高水平论文，取得了广泛的国际影响力。多名教师担任国内外重要学术期刊编委及专业学会重要职务。

展望未来，研究中心将继续秉承浙江大学“求是创新”校训，充分发挥杭州大数据产业集聚优势和浙江大学多学科交叉融合特色，聚焦解决重大现实问题，致力于创造具有实际价值的创新算法，切实攻克中国大数据领域的前瞻性挑战，助力浙江大学早日成为国际数据科学研究领域的重要引领者之一。



About Center for Data Science

The Center for Data Science at Zhejiang University was founded on May 18, 2017. It is a university-established institute dedicated to pioneering research and talent training on data science, with statistics, applied mathematics, computer science, and management science as the foundational disciplines. Rooted in significant progress in fundamental research, the center also focuses on interdisciplinary collaboration with economics, medicine, life science, social science, and engineering, etc., thereby transferring scientific achievements into technological developments that benefit the real world.

The center currently has 9 full-time faculty members, including one faculty member selected for the national high-level talent program, four faculty members selected for national young talent programs, two faculty members selected for Zhejiang Province high-level talent programs, and one faculty member selected for the Zhejiang Province young talent program. Several faculty members serve as editors of leading international academic journals and hold important positions in professional societies. Their research areas cover statistical decision theory, large-scale statistical inference, causal inference, machine learning theory, data fusion analysis, dimensionality reduction, data governance and services, computational biology, and spatial data analysis and applications.

The center has established a multi-level data science education platform. At the undergraduate level, the center offers a "Data Science and Big Data Technology" micro specialty program, opening to students from various majors who are interested in learning data science. At the graduate level, it provides a full-time master's degree program in "international Master of Data Science", as well as doctoral training in probability theory, statistics, applied mathematics, computer science, and management science. Currently, over 70 graduate students are enrolled in these programs. The center provides students with a first-class academic environment and development platform, regularly inviting top international scholars to deliver cutting-edge lectures and offering extensive support for overseas exchange opportunities. Students have published numerous high-impact papers in top-tier international journals in statistics, medicine, information science, and machine learning, as well as premier computer science conferences.

Based on the strengths of Zhejiang University in interdisciplinary cooperation and the vast development of big data industry in Hangzhou, the Center for Data Science at ZJU will continue to tackle major scientific challenges and create innovative solutions to real-world problems, evolving toward a globally leading institution in data science research and application.



List of Exhibitors

Exhibitors (In Alphabetical Order by Pinyin)

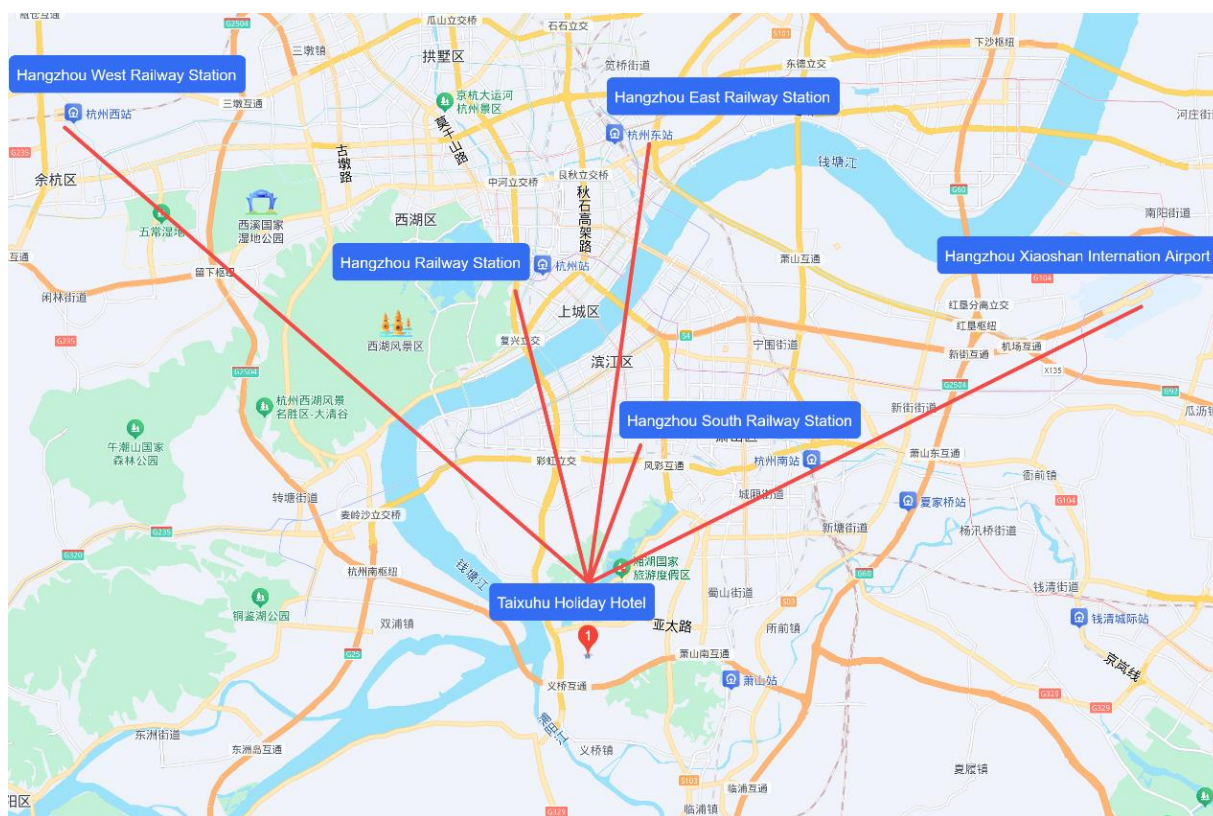
			
安徽大学大数据与统计学院	北京工商大学数学与统计学院	东南大学统计与数据科学学院	贵州财经大学
			
崂山国家实验室	MDPI	南昌大学经济管理学院	南开大学统计与数据科学学院
			
清华大学统计与数据科学系	上海财经大学统计与数据科学学院	上海对外经贸大学统计与数据科学学院	Springer
			
苏州思杰马克丁软件有限公司	《统计理论及其应用（英文）》	西安交通大学数学与统计学院	浙江工商大学统计与数学学院
			
中国大百科全书出版社			

Transportation Guide

Conference Venue

The 3rd Joint Conference will be held at the Taixuhu Holiday Hotel in Hangzhou.

The address is Hangzhou Oriental Culture Park, South Foot of Yangqi Mountain, Yiqiao Town, Xiaoshan District, Hangzhou City, Zhejiang Province (浙江省杭州市萧山区义桥镇杨岐山南麓杭州东方文化园内)



Route 1: Hangzhou Xiaoshan International Airport-Taixuhu Holiday Hotel

Distance: 36 km

By Car: Approximately 34 minutes (About ¥32 by taxi)

Public Transportation: 13 minutes walk - Metro Line 7 - Metro Line 2 - Bus 726

(Total Duration: 2 hours and 6 minutes)

Route 2: Hangzhou East Railway Station-Taixuhu Holiday Hotel

Distance: 27.9 km

By Car: Approximately 48 minutes (About ¥51 by taxi)

Public Transportation: 10 minutes walk + Metro Line 1 + Bus 775 + 6 minutes walk

(Total Duration: 1 hour and 45 minutes)



Route 3: Hangzhou West Railway Station-Taixuhu Holiday Hotel

Distance: 43 km

By Car: Approximately 43 minutes (About ¥150 by taxi)

Public Transportation: Metro Line 19 + Metro Line 1 + Bus 178

(Total Duration: 2 hour and 3 minutes)

Route 4: Hangzhou Railway Station-Taixuhu Holiday Hotel

Distance: 19.5 km

By Car: Approximately 29 minutes (About ¥40 by taxi)

Public Transportation: Metro Line 1 + Bus 775+ 6 minutes walk

(Total Duration: 1 hour and 20 minutes)

Route 5: Hangzhou South Railway Station-Taixuhu Holiday Hotel

Distance: 22.7 km

By Car: Approximately 29 minutes (About ¥49 by taxi)

Public Transportation: Metro Line 5 + Metro Line 2 + Taxi (about ¥22)

(Total Duration: 54 minutes)

Pick-up Service

日期 Date	时间 Departure Time	起点站 Origin Station	终点站 Destination Station	车程 Driving Time
7月10日 星期四 July 10, Thursday 13:30-21:00 (接机接站) (Airport and station pick - up)	13:30 - 21:00 每隔半小时一辆 Depart every half an hour	杭州东站 Hangzhou East Railway Station	太虚湖假日酒店 Taixuhu Holiday Hotel	约 40 分钟 about 40 minutes
		杭州萧山国际机场 Hangzhou Xiaoshan International Airport		约 35 分钟 about 35 minutes
7月13日 星期日 July 13, Sunday 17:00-18:00 (送机送站) (Airport and station drop-off)	17:00 - 18:00 每隔 20 分钟一辆 Depart every 20 minutes	太虚湖假日酒店 Taixuhu Holiday Hotel	杭州东站 Hangzhou East Railway Station	约 40 分钟 about 40 minutes
			杭州萧山国际机场 Hangzhou Xiaoshan International Airport	约 35 分钟 about 35 minutes

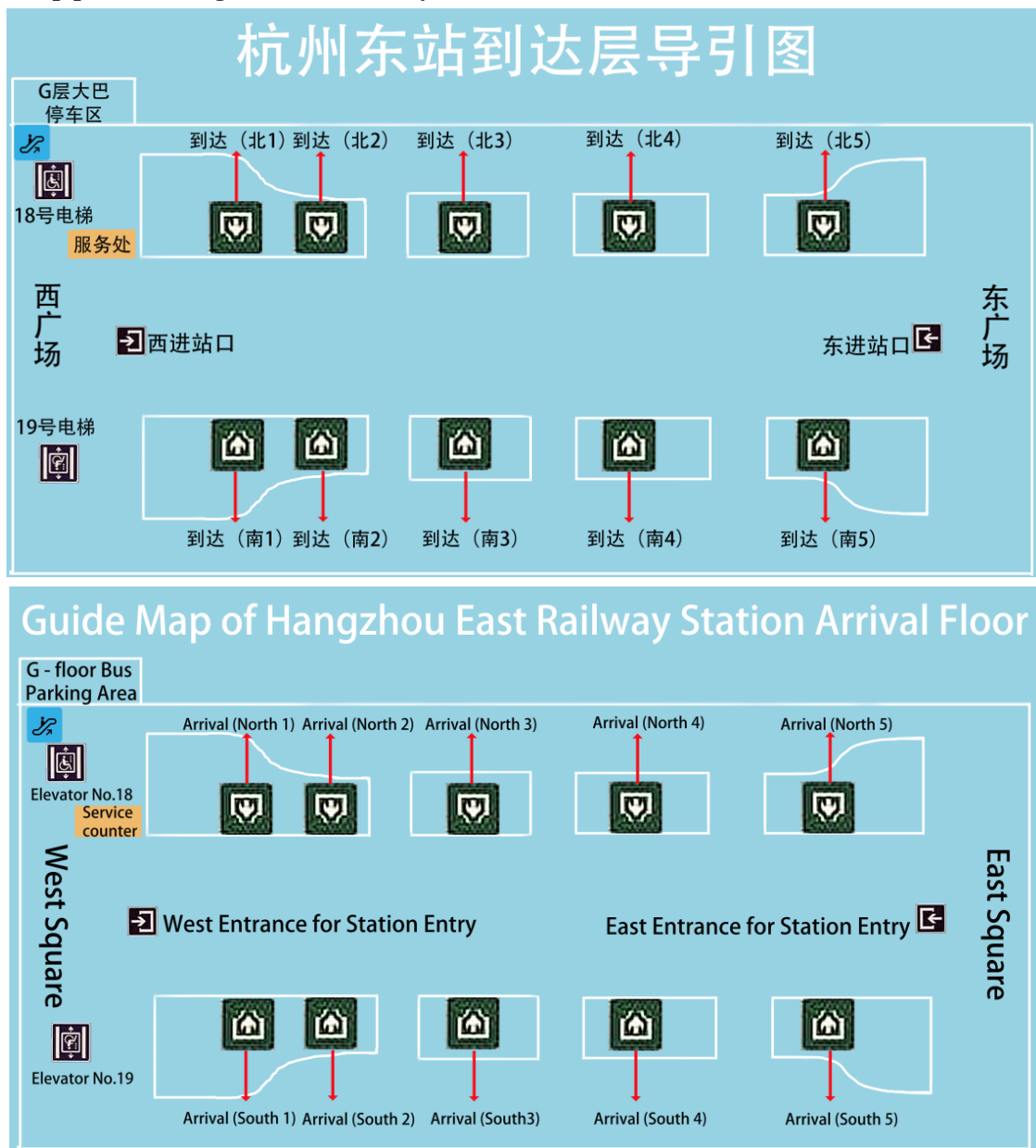
杭州萧山国际机场接站点

Pick-up point at Hangzhou Xiaoshan International Airport

1. T3 航站楼到达层和 T4 航站楼到达层各设置一个接站点
 2. 大巴车停靠点设置在 T4 航站楼，接站点会有专门的引导人员送至大巴车停靠点。
1. There will be a pick - up point set up respectively at the arrival level of Terminal 3 and the arrival level of Terminal 4.
 2. The bus stop is set at Terminal 4. There will be dedicated guides at the pick - up points to escort passengers to the bus stop.

杭州东站接站点

Pick-up point at Hangzhou East Railway Station





杭州东站大巴车停靠点设置在西广场 G 层大巴停车区，并且会在通往 G 层的上下自动扶梯旁设置志愿者服务处。

The bus stop at Hangzhou East Railway Station is set in the bus parking area on the G floor of the West Square. Moreover, volunteer service desks will be set up beside the up - and - down escalators leading to the G floor.

Shuttle Bus

日期 Date	发车时间 Departure Time	发车间隔 Departure Interval	起点 Departing From	终点 Destination
7 月 10 日 星期四 July 10, Thursday	首班车 13:30 The first bus leaves at 13:30 末班车 21:30 The last bus leaves at 21:30	约 10 分钟 about 10 minutes	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	御湘湖养生度假酒店 Yuxiang Lake Health Resort
	首班车 13:30 The first bus leaves at 13:30 末班车 21:30 The last bus leaves at 21:30	约 20 分钟 about 20 minutes	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	临浦开元名庭酒店 Linpu Kaiyuan Hotel
	首班车 13:30 The first bus leaves at 13:30 末班车 21:30 The last bus leaves at 21:30	约 25 分钟 about 25 minutes	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	杭州开元森泊度假酒店 Hangzhou SENBO Resort Hotel (途径: 湘湖保亿开元名都度假酒店→杭州湘湖小隐酒店) (Via: Grand New Century Resort Xianghu Hangzhou→Xianghu Xiaoyin Hotel)
7 月 11 日 星期五 July 11, Friday	首班车 7:50 The first bus leaves at 7:50 末班车 8:10 The last bus leaves at 8:10	人满即发 Buses depart when full	御湘湖养生度假酒店 大堂门口 In front of the lobby of Yuxiang Lake Health Resort	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel
7 月 12 日 星期六 July 12, Saturday	首班车 7:40 The first bus leaves at 7:40 末班车 8:00 The last bus leaves at 8:00	人满即发 Buses depart when full	临浦开元名庭酒店大堂门口 In front of the lobby of Linpu Kaiyuan Hotel	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel
7 月 13 日 星期天 July 13, Sunday	8:00	/	湘湖保亿开元名都度假酒店 大堂门口 In front of the lobby of Grand New Century Resort Xianghu Hangzhou	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel



日期 Date	发车时间 Departure Time	发车间隔 Departure Interval	起点 Departing From	终点 Destination
	8:00	/	湘湖小隐酒店大堂门口 In front of the lobby of Xianghu Xiaoyin Hotel	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel
	8:00	/	杭州开元森泊度假酒店 大堂门口 In front of the lobby of Hangzhou SENBO Resort Hotel	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel
7月11日 星期五 July 11, Friday	18:00-19:00 21:30-22:00	人满即发 Buses depart when full	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	御湘湖养生度假酒店 In front of the lobby of Yuxiang Lake Health Resort
	18:00-19:00 21:30-22:00	人满即发 Buses depart when full	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	临浦开元名庭酒店 In front of the lobby of Linpu Kaiyuan Hotel
	18:30 21:40	/	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	湘湖保亿开元名都度假酒店 In front of the lobby of Grand New Century Resort Xianghu Hangzhou
	18:30 21:40	/	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	湘湖小隐酒店 In front of the lobby of Grand New Century Resort Xianghu Hangzhou
	18:30 21:40	/	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	杭州开元森泊度假酒店 In front of the lobby of Hangzhou SENBO Resort Hotel
7月12日 星期六 July 12, Saturday	18:30 21:40	/	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	湘湖小隐酒店 In front of the lobby of Grand New Century Resort Xianghu Hangzhou
	18:30 21:40	/	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	杭州开元森泊度假酒店 In front of the lobby of Hangzhou SENBO Resort Hotel
7月13日 星期天 July 13, Sunday	首班车 17:00 The first bus leaves at 17:00 末班车 18:00 The last bus leaves at 18:00	约 20 分钟 about 20 minutes	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	杭州萧山国际机场 Hangzhou Xiaoshan International Airport
	首班车 17:00 The first bus leaves at 17:00 末班车 18:00 The last bus leaves at 18:00	约 20 分钟 about 20 minutes	太虚湖假日酒店 大堂门口停车场 The parking lot in front of the lobby of Taixuhu Holiday Hotel	杭州东站 Hangzhou East Railway Station



Accommodation

1. Taixuhu Holiday Hotel (Conference hotel)

- | | |
|--|--|
| (1) Deluxe King Size Bed Room
(Breakfast included) | (2) Deluxe Twin Bed Room
(Breakfast included) |
| (3) Superior King Size Bed Room
(Breakfast included) | (4) Superior Twin Bed Room
(Breakfast included) |
| (5) Ziwei Building Twin Bed Room
(Breakfast included) | (6) Deluxe Suite (Breakfast included) |

2. New Century Mansion Resort Hangzhou Xianghu Baoyi, 3.8 km from the conference hotel, a 9-minute drive (shuttle service available)

- | | |
|---|--|
| (1) King Size Bed Room (Breakfast included) | (2) Twin Bed Room (Breakfast included) |
|---|--|

3. Hangzhouyuxiang Lake Health Resort, 4.3 km from the conference hotel, a 9-minute drive (shuttle service available)

- | | |
|--|---------------------------------------|
| (1) King Size Bed Room(Breakfast included) | (2) Twin Bed Room(Breakfast included) |
| (3) Suite Room(Breakfast included) | (4) Family Room (Breakfast included) |

4. Xianghu Xiaoyin Hotel, 5.8 km from the conference hotel, an 11-minute drive (shuttle service available)

- | | |
|---|---------------------------------------|
| (1) King Size Bed Room (Breakfast included) | (2) Twin Bed Room(Breakfast included) |
|---|---------------------------------------|

5. Linpu Kaiyuan Mingting Hotel, 9.2 km from Conference Hotel, an 19-minute drive (shuttle service available)

- | | |
|--|--|
| (1) King Size Bed Room
(Breakfast included) | (2) Twin Bed Room (Breakfast included) |
|--|--|

6. Hangzhou Senbo Resort Hotel, 8 km from Conference Hotel, an 17-minute drive (shuttle service available)*Including child care services

- | | |
|---|---|
| (1) Log cabin King Size Bed Room(Breakfast included) | (2) Log cabin Twin Bed Room(Breakfast included) |
| (3) Lake view King Size Bed Room (Breakfast included) | (4) Lake view Twin Bed Room(Breakfast included) |

Note: Childcare service is available regardless of accommodation location.

For reservations, please contact the front desk of Hangzhou Senbo Resort Hotel at 0571-83989888 or 19957290514 (same number on WeChat).

Venue Map

1楼平面图

1st floor plan



2楼平面图

2nd floor plan

茶歇区
Tea Break Area

2楼平面图

2nd floor plan



Conference Registration

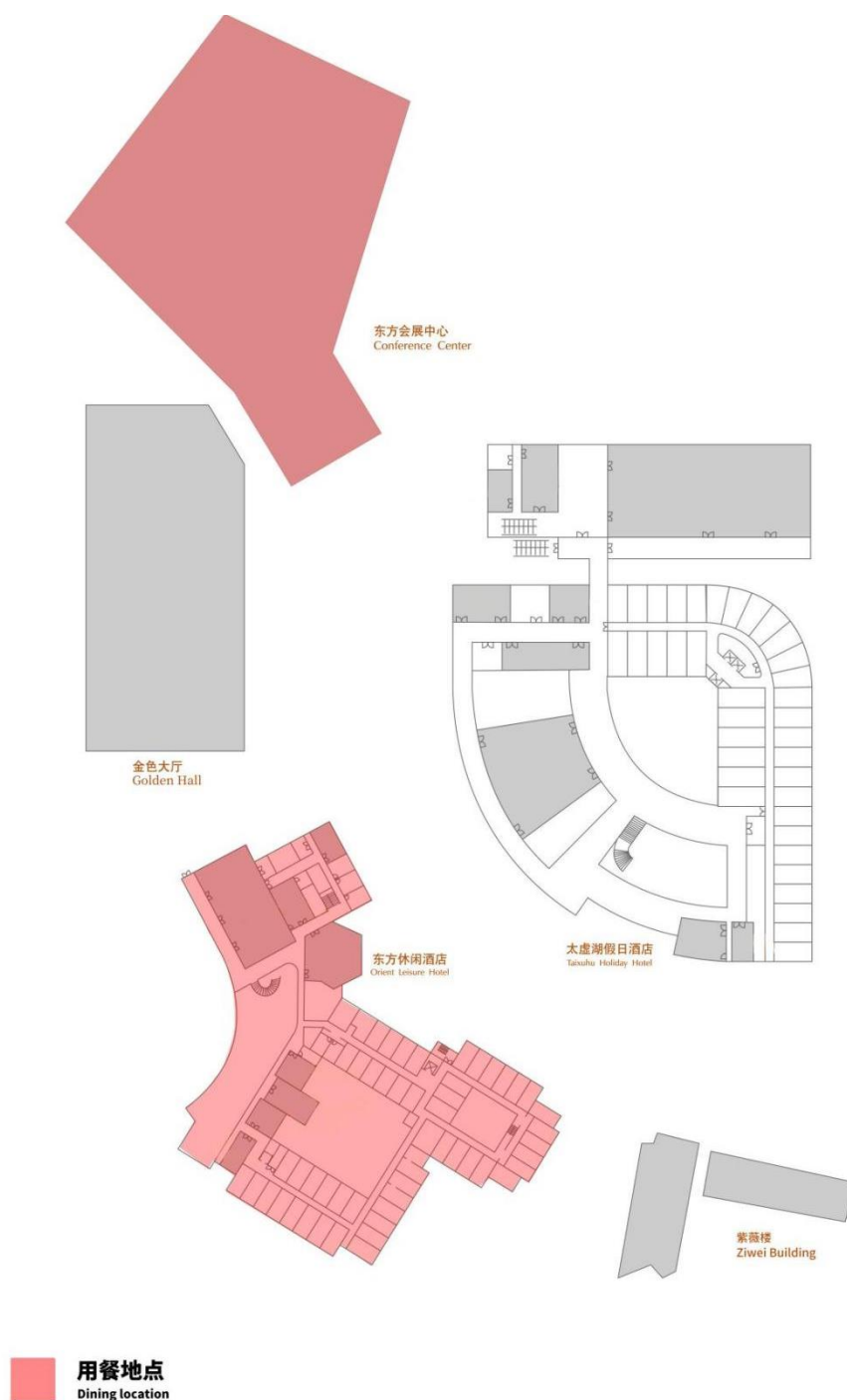
Hotel Registration

Date	Time	Hotel	Location
July 10, Thursday	12:00-21:00	Taixuhu Holiday Hotel	Grand Lobby 1st Floor
		Yuxiang Lake Health Resort	Grand Lobby 1st Floor
July 11, Friday	07:30-08:10	Yuxiang Lake Health Resort	Grand Lobby 1st Floor
	07:30-17:00	Taixuhu Holiday Hotel	Golden Hall
			Grand Lobby 1st Floor
July 12, Saturday	07:30-12:00	Taixuhu Holiday Hotel	Golden Hall
			Grand Lobby 1st Floor
	12:00-17:00	Taixuhu Holiday Hotel	Grand Lobby 1st Floor
July 13, Sunday	08:00-12:00	Taixuhu Holiday Hotel	Grand Lobby 1st Floor

During Your Stay

Dining

Date	Meal	Time	Venue
Thursday July 10	Dinner	18:00-20:00	Yuxiang Lake Health Resort Linpu Kaiyuan Hotel
		18:00-20:30	Taixuhu Holiday Hotel
Friday July 11	Lunch	11:50-13:30	1F Convention Center (东方会展中心) 1F Oriental Leisure Hotel: Four Seasons Hall (四季厅)
	Dinner	17:30-19:00	1F Convention Center (东方会展中心)
Saturday July 12	Lunch	12:10-13:30	1F Convention Center (东方会展中心)
	Dinner	17:30-19:00	1F Convention Center (东方会展中心)
Sunday July 13	Lunch	12:10-13:30	1F Convention Center (东方会展中心)



Tea Break

During the morning and afternoon tea break sessions, beverages (tea and coffee) as well as light refreshments will be served at the Golden Hall, the second floor of the Holiday Hotel, and the second floor of the Oriental Leisure Hotel.

Conference Badges

Upon registration, participants will receive a conference badge, which must be worn at all times during the conference for access to all sessions and services.



Conference Service Desk

Date	Time	Location
Thursday July 10	08:30-18:00	Grand Lobby 1 st Floor Hangzhou Taixuhu Holiday Hotel
Friday July 11	08:30-18:00	Grand Lobby 1 st Floor Hangzhou Taixuhu Holiday Hotel
Saturday July 12	08:30-18:00	Grand Lobby 1 st Floor Hangzhou Taixuhu Holiday Hotel
Sunday July 13	08:30-18:00	Grand Lobby 1 st Floor Hangzhou Taixuhu Holiday Hotel

Wifi Access

Accessing WiFi Using a Mobile Phone Number

Participants can connect to the complimentary WiFi at Hangzhou Taixuhu Holiday Hotel via their mobile phones or laptops in the following steps:

Step 1: Open the WiFi settings on your device and select:

Public areas: Taixuhu Holiday Hotel

Guest rooms: Room number

Step 2: Open any web browser on your device to access the welcome page.

Step 3: Select "Login via SMS".

Step 4: Enter your mobile phone number and click "Get Code". Within seconds, you will receive a text message with a verification code. Enter the code on the web browser and click "Login" to enjoy free WiFi.

WiFi Access Without a Chinese Mobile Number

The free WiFi service requires SMS verification from a Chinese phone number. If you do not have one, volunteers at the Information Desk will assist you in connecting to the WiFi network.

Medical Services

During the conference, medical services will be available at the **lobby of the first floor, main building of Taixuhu Holiday Hotel**, from **8:30 AM to 6:00 PM daily**.

In case of medical emergency, please **dial 120 immediately** to request an ambulance.

Emergency Contacts

Ambulance 120

Police 110

Weather

July in Hangzhou is typically hot and humid, with daytime temperature averaging 30-35 °C (86-95 °F). Occasional rain showers or thunderstorms may occur. We recommend lightweight and breathable clothing, wearing sunscreen, and staying hydrated. An umbrella may also be useful for both rain and sunshine protection.



Series of Activities

- (1) Short Course of 3rd JCSDS Short Course Series and the Young Scholars Forum of School of Statistics and Data Science, Southeast University
Time: July 6-July 10, 2025
Place: Nanjing, Jiangsu Province, China
- (2) Tsinghua University Reception
Time: July 11, 2025 19:30 - 21:30
Place: Xiangyun Hall, Hangzhou Taixuhu Holiday Hotel
- (3) Southeast University Reception
Time: July 11, 19:30 - 21:30
Place: Ziguang Hall B, Hangzhou Taixuhu Holiday Hotel
- (4) 《中国大百科全书（第三版） 统计学》 新书首发仪式
Launch Ceremony of *ECPH Encyclopedia of Statistics*
Time: July 11, 19:00 - 20:30
Place: Ziguang Hall C, Hangzhou Taixuhu Holiday Hotel
- (5) Peking University Reception
Time: July 12, 19:30 - 21:30
Place: Xiangyun Hall, Hangzhou Taixuhu Holiday Hotel
- (6) East China Normal University Reception
Time: July 12, 19:30 - 21:30
Place: Ziguang Hall A, Hangzhou Taixuhu Holiday Hotel
- (7) Zhejiang University Reception
Time: July 12, 19:30 - 21:30
Place: Ziguang Hall B, Hangzhou Taixuhu Holiday Hotel



Program Overview

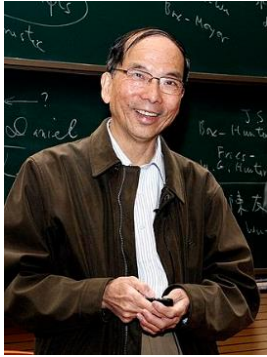
Day 1 July 11, Friday			
Time	Content	Location	Chair
08:30-09:00	Opening Ceremony	Golden Hall	Wenguang Sun
09:00-09:50	Plenary Talk: Physics-informed learning and uncertainty quantification (C. F. Jeff Wu)	Golden Hall	Tony Cai
09:50-10:10	Tea Break		
10:10-11:00	Plenary Talk: Causal Inference : History, Contributions, and Future (James M. Robins)	Golden Hall	Wang Miao
11:00-11:50	Plenary Talk: Robust Consensus Learning with Multi-Institutional EHR Data: Opportunities and Challenges (Tianxi Cai)	Golden Hall	Heping Zhang
11:50-13:30	Lunch		
12:00-13:30	China-Japan-Korea Academic Exchange Session (Invitation Only)		
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs
18:30-19:30	Poster Session	Poster Exhibition Area (2 nd floor)	
17:30-19:00	Dinner		
19:00-20:30	Launch Ceremony of <i>ECPH Encyclopedia of Statistics</i>	Ziguang Hall C	Hong Ji
Day 2 July 12, Saturday			
Time	Content	Location	Chair
08:30-09:20	Plenary Talk: Towards an understanding of the principles behind deep learning (Weinan E)	Golden Hall	Jiashun Jin
09:20-10:10	Plenary Talk: Statistics in the Era of Large Models (Jian Huang)	Golden Hall	Bingyi Jing
10:10-10:30	Tea Break		



Time	Content	Location	Chair
10:30-11:20	Plenary Talk: Generative AI for Economic Equilibrium Analyses and Financial Applications (Will Cong)	Golden Hall	Jianqing Fan
11:20-12:10	Panel Discussion: Strategies and Best Practices in Academic Writing	Golden Hall	Jia Gu
12:10-13:30	Lunch		
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs
17:30-19:00	Dinner		
18:30-19:30	Panel Discussion: Strategies and Insights for Successful Grant Applications	Ziguang Hall C	Wei Luo
Day 3 July 13, Sunday			
Time	Content	Location	Chair
08:30-10:10	Parallel Sessions		Session Chairs
10:10-10:30	Tea Break		
10:30-12:10	Parallel Sessions		Session Chairs
12:10-13:30	Lunch		
13:30-15:10	Parallel Sessions		Session Chairs
15:10-15:30	Tea Break		
15:30-17:10	Parallel Sessions		Session Chairs



Plenary Talks



C. F. Jeff Wu, Chinese University of Hong Kong, Shenzhen

C. F. Jeff Wu is X.Q. Presidential Chair Professor in the School of Data Science, Chinese U. of Hong Kong, Shenzhen. He formerly taught at U. Wisconsin, U. Waterloo, U. Michigan, and Georgia Tech. A member of the US National Academy of Engineering (2004), and a member of Academia Sinica (2000). A fellow of four societies. He received the COPSS Presidents' Award (1987), COPSS Fisher Lecture Award (2011), and numerous other major awards. He coined the term “data science” in 1985 (during a lecture at Chinese Academy of Sciences, Beijing) and in 1997 (in a public lecture at U. of Michigan).

<https://sds.cuhk.edu.cn/en/teacher/1900>

Time: July 11, 09:00-09:50

Venue: Golden Hall, Hangzhou Taixihu Holiday Hotel

Title: *Physics-informed learning and uncertainty quantification*

Abstract:

Suppose a system or product can be described by its underlying physical knowledge, usually via a set of partial differential equations (pde's). Then the corresponding AI tools must be informed by this knowledge. In this talk I will focus on using physical knowledge to “inform” the development of statistical/machine learning. I will use two recent work to illustrate how this can be done. In developing the injector design for rocket propulsion, the mixing of oxygen and fuel was critical for the stability of propulsion. Navier-Stokes equations were used to describe the mixing behavior. However, the solution of the equations could take six weeks on clustered machine. Thus only a small number of numerical solutions could be performed. A surrogate model was instead developed by using tools in uncertainty quantification (UQ) and machine learning (ML). It could be computed within one hour and can mimic the mixing behavior. The success lies in using UQ-ML tools to incorporate known physical phenomena about mixing. The second work addresses the issue of incorporating knowledge of the pde's such as its boundary conditions. In building an efficient surrogate model, it must also satisfy the same boundary conditions. We have constructed a new class of Gaussian process models that incorporate the same boundary information. We develop a framework of GP models based on stochastic partial differential equations (SPDEs) with Dirichlet or Robin boundary conditions. For fast computation, we use a kernel regression approximation to accurately approximate the SPDE covariances. Real examples are used for illustration.

Plenary Talks



James M. Robins, Harvard University

James M. Robins is an epidemiologist and biostatistician best known for advancing methods for drawing causal inferences from complex observational studies and randomized trials, particularly those in which the treatment varies with time. He is the 2013 recipient of the Nathan Mantel Award for lifetime achievement in statistics and epidemiology, and a recipient of the 2022 Rousseeuw Prize in Statistics, jointly with Miguel Hernán, Eric Tchetgen-Tchetgen, Andrea Rotnitzky and Thomas Richardson.

He graduated in medicine from Washington University in St. Louis in 1976. He is currently Mitchell L. and Robin LaFoley Dong Professor of Epidemiology at Harvard T.H. Chan School of Public Health. He has published over 100 papers in academic journals and is an ISI highly cited researcher.

<https://www.hsph.harvard.edu/profile/james-m-robins/>

Time: July 11, 10:10-11:00

Venue: Golden Hall, Hangzhou Taixihu Holiday Hotel

Title: Causal Inference : History, Contributions, and Future

Abstract:

Forty years ago, the following disciplines had their own languages, opinions and idiosyncrasies re causal inference: philosophy, computer science, sociology, psychology, statistics, epidemiology, political science, and economics. Today all speak a common language so new methodologies rapidly cross fertilize. Top journals have gone from knee-jerk rejection to active solicitation of articles in the area.

The rapid development of the field has been driven by:

1. End of the historical suppression of causal language in statistics and medicine (aside from randomized clinical trials)
2. The internet making cross disciplinary understanding and collaboration easy
3. The need for individualized treatment regimes in Medicine
4. Tech companies realizing that optimizing profits depended on causal interventions rather than just prediction
5. The development of causal graphs by Spirtes, Glymour, Scheines and Pearl that offers non-technical users the ability to validly reason about complex causal systems
6. The existence of huge data sets leading to data driven science rather than hypothesis driven science.

In my lecture, I will give a history of statistical methods for causal inference, focusing on methods developed by myself and colleagues. I will explain why the causal methods we developed for the analysis of time varying treatments have had such a large impact for now over 25 years on substantive areas in which confounding by time varying covariates is very strong, as in studies of HIV-infected individuals. In addition, I will describe why these methods are an integral part of the target trial methodology introduced by Miguel Hernan and myself - a methodology that is altering the analytical paradigm for the estimation of causal effects from longitudinal observational data in Medicine.

In more detail, I will review both (i) the role of marginal structural models, structural nested models, and the g-formula in modelling the effects of time-varying treatments and (ii) the development, joint with Andrea Rotnitzky, of doubly and multiply robust estimation of the model parameters. This will be followed by a brief review of ground-breaking causal methods developed by other researchers, centering on the development of proximal inference by Eric Tchetgen Tchetgen and Wang Miao and the contributions of Mark van der Laan. I will conclude with a discussion of the future of causal inference in the coming age of AI.



Plenary Talks



Tianxi Cai, Harvard University

Tianxi Cai is a major player in developing analytical tools for mining EHR data and predictive modeling with biomedical data. She provides statistical leadership on several large-scale projects, including the NIH-funded Undiagnosed Diseases Network at DBMI. Cai's research lab develops novel statistical and machine learning methods for several areas including clinical trials, real world evidence, and personalized medicine using genomic and phenomic data. Cai received her ScD in Biostatistics at Harvard and was an assistant professor at the University of Washington before returning to Harvard

as a faculty member in 2002.

<https://www.hsph.harvard.edu/profile/tianxi-cai/>

Time: July 11, 11:00-11:50

Venue: Golden Hall, Hangzhou Taixuhu Holiday Hotel

Title: *Robust Consensus Learning with Multi-Institutional EHR Data: Opportunities and Challenges*

Abstract:

The widespread adoption of electronic health records (EHR) has unlocked access to large-scale clinical datasets, creating valuable opportunities for discovery research and translational medicine. When integrated with biorepositories and other knowledge sources, EHR data can drive the development of real-world, data-driven models for precision healthcare. However, effectively utilizing multi-institutional EHR data presents considerable challenges, including data heterogeneity, privacy constraints, and temporal shifts in clinical practices, coding standards, and patient demographics. In this talk, I will explore consensus learning and representation learning strategies that harness knowledge sources and pre-trained language models to enhance robustness across diverse healthcare systems and evolving temporal trends. By integrating EHR data from multiple institutions, these approaches improve the reliability and generalizability of insights derived from distributed EHR data. I will illustrate these methods using datasets from institutions such as Mass General Brigham and the Veterans Health Administration, highlighting strategies to ensure the stability and applicability of real-world evidence in healthcare research.



Plenary Talks



Weinan E, Peking University

A renowned mathematician, Academician of the Chinese Academy of Sciences, Chair Professor at Peking University, Director of the National Engineering Laboratory for Big Data Analysis and Applications, Director of the International Center for Machine Learning at Peking University, President of the Beijing Institute of Scientific Intelligence, President of the Beijing Big Data Research Institute, Advisor to the Chinese Society for Industrial and Applied Mathematics, and Chair of the Academic Committee at the Wuhan Institute of Mathematics and Intelligence. He was formerly a professor in the Department of Mathematics and at the Program in Applied and Computational Mathematics

at Princeton University.

His primary research areas include computational mathematics, applied mathematics, machine learning, and their applications in fields such as mechanics, physics, chemistry, and materials science.

https://www.math.pku.edu.cn/jsdw/js_20180628175159671361/e_20180628175159671361/138270.htm

Time: July 12, 08:30-09:20

Venue: Golden Hall, Hangzhou Taixuhu Holiday Hotel

Title: *Towards an understanding of the principles behind deep learning*

Abstract:

The field of deep learning is evolving rapidly, driven by the availability of the vast amount of data and computing resources. Deep learning techniques have also evolved in several different ways, including different formulations such as GAN and the diffusion model, different architecture such as CNN and transformers, and different training protocols such as BERT and GPT. This evolution has largely been empirical. Consequently there are a lot of mysteries, surprises and “black magics” in this field. Is it possible to decipher some kind of guiding principles behind this? In this talk, we will discuss our thoughts along this line. Specifically, we will discuss how simple mathematical concepts such as symmetry and stability can be used as guiding principles for designing and understanding neural network models.

Plenary Talks



Jian Huang, The Hong Kong Polytechnic University

Jian Huang is The Chair Professor of Data Science and Analytics in the Departments of Data Science and AI, and Applied Mathematics at The Hong Kong Polytechnic University. He received his Ph.D. in Statistics from the University of Washington, Seattle.

His current research interests include deep learning, generative models, representation learning, leveraging large models for statistical analysis, and AI for science. He is recognized for his contributions to high-dimensional statistics, biostatistics, bioinformatics, and machine learning. He has been named as a highly cited researcher in Mathematics by Clarivate and is listed among the top

2% of the world's most cited scientists by Stanford University. Professor Huang is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics.

<https://www.polyu.edu.hk/ama/people/academic-staff/prof-huang-jian/>

Time: July 12 , 09:20-10:10

Venue: Golden Hall, Hangzhou Taixuhu Holiday Hotel

Title: *Statistics in the Era of Large Models*

Abstract:

The emergence of large-scale machine learning models, such as deep neural networks and foundation models, is fundamentally reshaping the field of statistics. In this talk, we explore how these powerful models can be leveraged to address contemporary statistical challenges. We will discuss applications such as employing large language model-based data agents for coding-free data analysis, leveraging large models to enhance statistical analysis, and applying generative models to nonparametric statistical learning problems. Through these examples, we will highlight the opportunities and challenges that large models present for statistical analysis and outline promising directions for future research at this dynamic intersection.



Plenary Talks



Will Cong, Cornell University

Will Cong is the Rudd Family Professor of Management, professor of finance, and founding director of the FinTech Initiative at Cornell University. He is also a finance editor at the Management Science, faculty scientist at the Initiative for Cryptocurrencies & Contracts (IC3), research associate at the NBER, founder of multiple international research forums, a former Kauffman Junior Fellow, Poets & Quants World Best Business School Professor, and 2022 Top 10 Quant Professor.

Cong's research spans financial economics, information economics, fintech, digital economy, and entrepreneurship. He and his coauthors have pioneered the introduction of goal-oriented search and interpretable AI for finance, laid the foundations of tokenomics (covering categorization of tokens, cryptocurrency pricing, central bank digital currencies/payment systems, and optimal token monetary policy design), analyzed centralization issues and dynamic incentives in blockchains and DeFi, and developed data analytics for detecting market manipulation and better fintech regulation among others.

<https://business.cornell.edu/faculty-research/faculty/lc898/>

Time: July 12 , 10:30-11:20

Venue: Golden Hall, Hangzhou Taixihu Holiday Hotel

Title: *Generative AI for Economic Equilibrium Analyses and Financial Applications*

Abstract:

I overview two core themes of modern AI: goal-oriented end-to-end optimization and generative modeling with deep learning. I then discuss non-text-based generative modeling involving transformer-based reinforcement learning or the novel panel trees for portfolio management, test asset creation, and detecting heterogeneity groups (e.g., asset clusters with differential return predictability). Finally, I introduce the concept of data-driven generative equilibrium for counterfactual analyses in economics, with an application to online lending markets.



Panel Discussions

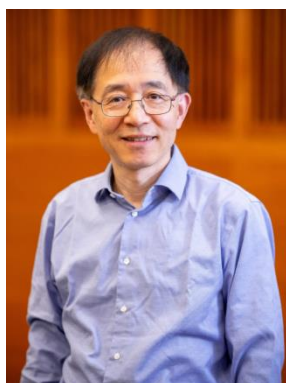
Strategies and Best Practices in Academic Writing

Time: July 12, 11:20-12:10

Venue: Golden Hall, Hangzhou Taixihu Holiday Hotel



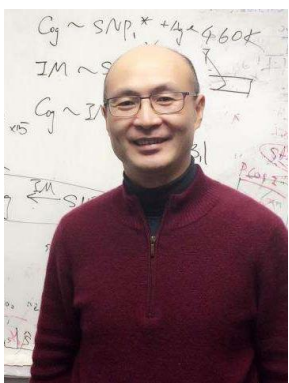
Jianqing Fan
Princeton University



Xuming He
Washington University
in St. Louis



Lan Wang
University of Miami



Heping Zhang
Yale University



Ji Zhu
University of Michigan



Panel Discussions

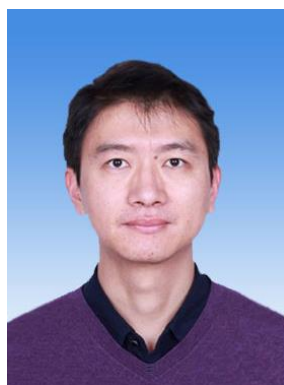
Strategies and Insights for Successful Grant Applications

Time: July 12, 18:30-19:30

Venue: Ziguang Hall C, Hangzhou Taixuhu Holiday Hotel



姚方
北京大学



张新雨
中国科学院



朱利平
中国人民大学



邹国华
首都师范大学



Poster Session

No.	Name	Affiliation	Title
1	张素婷	安徽财经大学	制造业企业数字化转型对碳排放影响研究
2	裴小钰	密歇根大学统计系	Clarifying the role of the Mantel-Haenszel Risk Difference Estimator in Randomized Clinical Trials
3	刘璇	营口理工学院	中国实体经济高质量发展水平测度、区域差异与时空演进
4	王泽盈	内蒙古财经大学	中国股市投资者情绪与羊群效应：基于市场动态的交互作用分析
5	刘春英	内蒙古财经大学	金融高质量发展的空间演变过程及障碍因子识别
6	陈星	内蒙古财经大学	中国新质生产力发展水平测度、时空演变及收敛性研究
7	金志东	内蒙古财经大学	新发展格局下我国居民消费潜力空间关联网络结构特征及区域差异分析
8	闵家祺	北京工商大学	A Regression Framework for Bidirectional Proximal Causal Inference
9	顾辰菲	上海财经大学	Online differentially private learning for support vector machine
10	沈梓梁	上海财经大学, 统计与数据科学学院	High-Dimensional Differentially Private Quantile Regression: Distributed Estimation and Statistical Inference
11	易思宇	四川大学	基于可泛化对比表示的图零样本学习
12	李冬煜	清华大学	细胞通讯网络的差异分析
13	曾浩	南方科技大学	Parametric Scaling Law of Tuning Bias in Conformal Prediction
14	李希	北京工业大学	应用于癫痫脑电数据的通道相似脑网络的稳健估计
15	于曙光	上海财经大学	Enhancing Prediction Performance through Influence Measure
16	阿卜杜乃比·吾普尔	新疆医科大学	基于 UKB 数据库的中老年人衰弱蛋白质风险评分预测模型构建及验证研究
17	陈可欣	嘉应学院	基于 Transformer-GRU-TCN 多模态融合模型的广州市交通流预测研究
18	李慧琳	天津中医药大学	基于 nycflights13 数据集的航班延误可视化探索与建议
19	李伊婧	安徽财经大学	县域新型城镇化政策对碳排放强度影响研究
20	陆春梅	内蒙古财经大学	多源数据下的游客需求层次与旅游偏好分析——以内蒙古热门景区为例

No.	Name	Affiliation	Title
21	杨丙玥	内蒙古财经大学	新质生产力驱动下区域经济韧性的测度及强化路径研究
22	李昕阳	北师大香港浸会大学	A Novel Approach Using Patient Regional Index To Ranking Clinical Specialties Based On Outpatient Big Data
23	李 多	吉林财经大学	市场激励型环境规制对企业绿色技术创新的影响
24	潘庆一	清华大学	LUNCH: Adaptive Balancing of Continual Learning via Hyperparameter Uncertainty
25	王 雪	北京工业大学	Properties and Estimation of a Novel Skewed Generalized Normal Distribution
26	马兴华	华南农业大学珠江学院	Identification and Prediction of the Knee-Point in the Capacity Degradation Curve of Lithium-Ion Batteries
27	王紫霄	哈佛大学	Identification and Estimation for Nonignorable Missing Data: A Data Fusion Approach
28	卢 珊	中央财经大学	GCN Inference on Functional Data with Generalized Graph Signal Processing
29	许琪琪	东北师范大学	基于共享低秩分解的矩阵数据聚类方法
30	彭 星	新疆医科大学	基于 NHANES 数据库的蘑菇摄入量和衰弱的关联性研究
31	Yi Luo	Washington University in St. Louis	Asymptotic Analysis of Adam-type Optimizers
32	Guanhao Zhou	University of Notre Dame	Factor Augmented Tensor-on-Tensor Neural Networks
33	Haixiao Wang	University of California, San Diego	Optimal and exact recovery on the general non-uniform Hypergraph Stochastic Block Model
34	Elisa Varini	National Research Council of Italy (CNR)	A Web Application for Crowdsourced Collection and Analysis of Building Exposure Data
35	李金昌	浙江财经大学	数据要素驱动战略性新兴产业的影响研究
36	姜佳佳	南方科技大学统计与数据科学系	Hierarchical structure-guided high-dimensional multi-view clustering
37	曾佳佳	内蒙古财经大学	风险冲击对内蒙古农村家庭多维相对贫困的影响研究
38	陈志芳	内蒙古财经大学	健康冲击、人力资本与农村家庭贫困脆弱性
39	孙雨茜	浙江财经大学	生育意愿嬗变与婚育行为转型对中国生育水平的驱动效应研究
40	孙荣忆	浙江大学	基于共形 q 值的结构自适应异常值探测方法
41	李海霞	内蒙古财经大学	中国数字经济核心产业规模的再测算研究



No.	Name	Affiliation	Title
42	马希炜	内蒙古财经大学	“双碳”目标下数字经济与减污降碳空间分异及驱动因素研究
43	王献苗	内蒙古财经大学	新质生产力与旅游业高质量发展耦合协调影响因素研究
44	王彬楠	北京大学	On Consistency of Signature Using Lasso
45	戴沛绢	内蒙古财经大学	新质生产力对碳排放的空间影响效应研究
46	张梦瑶	内蒙古财经大学	能源效率的动态演进趋势及影响因素的识别与优化--基于 SHAP 与贝叶斯优化算法的研究
47	李晓钰	内蒙古财经大学	政策驱动与市场驱动的行业风险分化及传导机制——基于新能源与半导体波动率动态的实证研究
48	潘霞	内蒙古财经大学	融合深度学习与自编程技术的土地覆被演变预测系统
49	陈云箫	内蒙古财经大学	政府公共转移支付对乡村家庭贫困脆弱性的影响——基于多时点 DID 的实证研究
50	刘世蔓	内蒙古财经大学	京津冀城市群新质生产力时空分异特征及影响因素研究——基于 XGBoost-SHAP 模型
51	胡志豪	内蒙古财经大学	新质生产力对全要素生产率的作用机制与空间效应——基于空间杜宾模型的实证分析
52	陈洁茹	内蒙古财经大学	Evaluating the Environmental Consequences of Digital Economy Growth: Evidence from Chinese Cities
53	徐昱昱	北京大学数学科学学院	Diffusion Factor Models: Generating High-Dimensional Returns with Factor Structure
54	朱学博	浙江财经大学	中国混合低收入程度的统计测度及分解 ——基于改进的分组数据还原法的分析
55	刘佳	内蒙古财经大学	高铁开通：开启农村减贫新征程？
56	安永芳	内蒙古财经大学	基于城市群的新质生产力测度及差异研究——以京津冀、长三角、珠三角城市群为例
57	姜雯心	内蒙古财经大学	黄河流域新质生产力发展水平测度、时空分异及收敛性研究
58	Antonella Peresan	National Institute of Oceanography and Applied Geophysics - OGS	Epidemic character of aftershock clusters: a statistical analysis
59	吴林桐	北京大学	Spectral Volume Models: Universal High-Frequency Periodicities in Intraday Trading Activities
60	Shu Xu	New York University	Can nicotine vape products help adults quit cigarette smoking: A Bayesian Additive Regression Tree analysis for Causal Inference?

No.	Name	Affiliation	Title
61	宋无穷	上海对外经贸大学	High Dimensional Time Series Completion based on Dynamic Factor Models
62	任志远	浙江财经大学	兼容还是对立：扩大中等收入群体的生态效应研究
63	李易诚	清华大学	Understanding Neural Networks via Adaptive Features: Diagonal Over-parameterization and Beyond
64	董曼茹	北京物资学院	基于双层 Attention 机制的 LSTM 模型对 CPI 的预测研究
65	陈志芳	内蒙古财经大学	基于 BERT-BiLSTM 模型的投资者情绪对股价短期预测
66	王子纯	北京物资学院	我国物流业新质生产力的时空演进及影响因素分析
67	邓佩珊	北京物资学院	区域碳脱钩时空分布及演变特征研究
68	Di Zhang	National University of Singapore	Debiased Continuous Updating GMM with Many Weak Instruments
69	桂如明	北京物资学院	物流成本链关联网络结构演化特征及驱动因素
70	赵心然	北京物资学院	产业融合度对社会物流成本足迹效率空间溢出效应影响研究
71	胡东健	南开大学统计与数据科学学院	Error-quantified Conformal Inference for Time Series
72	李泽锦	北京物资学院	数字基础设施建设对高质量充分就业的影响研究
73	李轩宇	中国科学院大学	Semi-Supervised Double Deep Learning for Causal Inference
74	徐子雅	中国人民大学统计与大数据研究院	Robust multivariate Mendelian Randomization method in existence of pleiotropic and weak instruments
75	艾 鑫	上海财经大学统计与数据科学学院	Optimal weighted Fréchet random forest for random objects with Euclidean predictors



Scientific Program

2025-07-11 08:30-09:00

Opening Ceremony

Room: Golden Hall

Chair: Wenguang Sun, Zhejiang University

2025-07-11 09:00-09:50

Plenary Talk 1

Room: Golden Hall

Chair: Tony Cai, University of Pennsylvania

09:00 Physics-informed learning and uncertainty quantification
C. F. Jeff Wu, Chinese University of Hong Kong, Shenzhen

2025-07-11 10:10-11:00

Plenary Talk 2

Room: Golden Hall

Chair: Wang Miao, Zhejiang University

10:10 Causal Inference : History, Contributions, and Future
James M. Robins, Harvard University

2025-07-11 11:00-11:50

Plenary Talk 3

Room: Golden Hall

Chair: Heping Zhang, Yale University

11:00 Robust Consensus Learning with Multi-Institutional EHR Data: Opportunities and Challenges
Tianxi Cai, Harvard University

2025-07-11 12:00-13:30

China-Japan-Korea Academic Exchange Session (Invitation Only)

2025-07-11 13:30-15:10

Invited Session IS001: Causal Inference in Observational Studies

Room: Golden Hall 1+2

Chair: Ke Deng, Tsinghua University

Organizer: Zhi Geng, Beijing Technology and Business University

13:30 Causal Inference with Negative Controls when many negative control exposures exist
Jin Zhu Jia, Peking University

13:50 Imputation-Based Randomization Tests for Randomized Experiments with Interference
Ke Deng, Tsinghua University

14:10 Efficient Design-based Inference for the Stepped Wedge Design

Fan Xia, UCSF

14:30 Identification and estimation of causal peer effects using instrumental variables

Shanshan Luo, Beijing Technology and Business University

14:50 A generalized tetrad constraint for nonlinear models

Naiwen Ying, Peking University

Invited Session IS003: Recent Advances in Diffusion Models

Room: Golden Hall 3

Chair: Ji Zhu, University of Michigan

Organizer: Ji Zhu, University of Michigan

13:30 A Bayesian Approach for Fine-Tuning Diffusion Models

Yuan Gao, The Hong Kong Polytechnic University

13:55 Provable Diffusion Posterior Sampling for Bayesian Inversion

Yuling Jiao, Wuhan University

14:20 To Intrinsic Dimension and Beyond: Efficient Sampling in Diffusion Models

Yuting Wei, University of Pennsylvania

14:45 A Generative Embedding Approach for Hypergraphs

Gongjun Xu, University of Michigan

Invited Session IS005: Resampling Methods and Survival Data Analysis

Room: Xiangyun Hall

Chair: Depeng Jiang, University of Manitoba

Organizer: Niansheng Tang, Yunnan University

13:30 Robust subsampling via low influence functions in contaminated data

Niansheng Tang, Yunnan University

13:55 Efficient Multilevel Joint Modeling: Integrating Longitudinal and Survival Data with Auxiliary Poisson Approach

Depeng Jiang, University of Manitoba

14:20 Information Transfer Enhancing the Functional Regression

Zhiyang Zhou, University of Wisconsin-Milwaukee

14:45 Quantile regression for censored data with a cure fraction

Bo Han, Yunnan University



Invited Session IS013: Statistical Analysis of Complex Data

Room: Ziguang Hall A

Chair: Jiancheng Jiang, University of North Carolina at Charlotte

Organizer: Ming-Yen Cheng, Hong Kong Baptist University

- 13:30 Statistical Approaches to MLP Approximation in Efficient Language Models
Yifan Chen, Hong Kong Baptist University
- 13:55 Advancing Responsible Statistical and AI/ML Methods for Complex Electronic Health Records
Qi Long, University of Pennsylvania
- 14:20 Generalized Median of Means Principle for Bayesian Inference
Shunan Yao, Hong Kong Baptist University

Invited Session IS021: Latent Class Modeling and Missing Data

Room: Ziguang Hall B

Chair: Xiaohua Zhou, Peking University

Organizer: Xiaohua Zhou, Peking University

- 13:30 Mixture Survival Trees for Subgroup Discovery
Donglin Zeng, University of Michigan
- 13:55 Auxiliary Variable-Assisted Regularized Estimation: Semi-Supervised Modeling with Multi-Wave Sampling
Yong Chen, University of Pennsylvania
- 14:20 Tree-Regularized Bayesian Latent Class Analysis for Improving Weakly Separated Dietary Pattern Subtyping in Small-Sized Subpopulations
Zhenke Wu, University of Michigan, Ann Arbor
- 14:45 Dynamic Classification of Latent Disease Progression with Auxiliary Surrogate Labels
Zexi Cai, Columbia University

Invited Session IS051: Latest on Statistical and Machine Learning

Room: Ziguang Hall C

Chair: Songxi Chen, Tsinghua University

Organizer: Songxi Chen, Tsinghua University

- 13:30 Learning with Shared Representations: Statistical Rates and Optimal Algorithms
Pengkun Yang, Tsinghua University
- 13:55 Optimal Variable Clustering for High-Dimensional Matrix Valued Data
Yang Ning, Cornell University
- 14:20 Distributional learning via deep copula density weighting
Han Yan, Peking University
- 14:45 Supporting Evidences for the Adaptive Feature Approach
Qian Lin, Tsinghua University

Invited Session IS037: Comprehensive Evaluation and Statistical Decision Making based on big data

Room: Dongfang Hall A

Chair: Weihua Su, Zhejiang Gongshang University

Organizer: Weihua Su, Zhejiang Gongshang University

- 13:30 Support vector machines with probabilistic linguistic information
Chonghui Zhang, Zhejiang Gongshang University
- 13:50 Clustering Analysis of Text Interval Functional Data Based on the BERT Model: A Case Study of Live Stream Chat Messages
Lirong Sun, Zhejiang Gongshang University
- 14:10 Research on Group Consensus Evaluation Model Considering Non-cooperative Behavior in Dynamic Social Network Environments
Shouzheng Zeng, Ningbo University
- 14:30 公共数据产品定价和利润分配的非合作-合作两型博弈方法
Wenjin Zuo, Shanghai University of Finance and Economics Zhejiang College
- 14:50 Attribute preference weight estimation method of commodity evaluation based on online reviews and ratings
Na Zhang, Zhejiang Gongshang University

Invited Session IS045: Bernoulli Special Session on Theoretical Statistics

Room: Dongfang Hall B

Chair: Ajay Jasra, The Chinese University of Hong Kong (Shenzhen)

Organizer: Ajay Jasra, The Chinese University of Hong Kong (Shenzhen)

- 13:30 Non-Euclidean object filtering for large-scale discriminant analysis
Xin Chen, Southern University of Science and Technology
- 13:55 Heavy-Tailed Density Estimation
Sheng Jiang, The Chinese University of Hong Kong, Shenzhen
- 14:20 Efficient methods for species tree estimation and species delimitation using genomic sequence data
Xiyun Jiao, Southern University of Science and Technology
- 14:45 Range Penalization: Theoretical Insights with Applications in Federated Learning
Yiyuan She, Westlake University

Invited Session IS042: Advances in Machine Learning Methods for Clinical Studies

Room: Baiyuan Hall

Chair: Lu Tang, University of Pittsburgh

Organizer: Peter Song, University of Michigan



- 13:30 Modeling Emotional Expressions for Multiple Cancers via a Linguistic Analysis of an Online Health Community
Shuangge Ma, Yale University
- 13:55 Stage-Aware Learning for Dynamic Treatments
Annie Qu, University of California Santa Barbara
- 14:20 Multi-Objective Optimization for Causal Learning of Tolerant Dynamic Treatment Decision Rules
Lu Wang, University of Michigan
- 14:45 Robust transfer learning for individualized treatment rules in the presence of missing data
Lu Tang, University of Pittsburgh

Contributed Session CS001: Advances in Extreme Quantile Inference and High-Dimensional Testing

Room: Ziguang Hall E

Chair: Wei Luo, Zhejiang University

- 13:30 CTE2: Conditional tail expectation treatment effect at extreme levels
Deyuan Li, Fudan University
- 13:50 Mean-preserving rounding integer-valued ARMA models
Fukang Zhu, Jilin University
- 14:10 基于广义线性模型的大规模插补样本融合研究
Xiaoning Wang, Communication University of China
- 14:30 基于投影经验过程的渐近分布自由的超高维回归模型检验
Falong Tan, Hunan University
- 14:50 基于超均匀性的差分隐私多重假设检验
Wangli Xu, Renmin University of China

Invited Session IS068: Recent Advances in Complex Data Analysis

Room: Huaide Hall

Chair: Chen-Hung Kao, Institute of Statistical Science, Academia Sinica

Organizer: Chen-Hung Kao, Institute of Statistical Science, Academia Sinica

- 13:30 Mean shift for functional data: a scalable algorithm and convergence analysis
Su-Yun Huang, Academia Sinica
- 13:50 Bivariate Analysis of Distribution Functions Under Biased Sampling
Hsin-wen Chang, Institute of Statistical Science, Academia Sinica
- 14:10 Coordinate testing for general sufficient dimension reduction methods
Shih-Hao Huang, National Central University
- 14:30 Graphical modeling of multivariate inhomogeneous spatial point processes
Junho Yang, Institute of Statistical Science, Academia Sinica

- 14:50 Exploring the relationship between the geometry of a fixed embedding of image data and its underlying cluster structure
Chen-Hsiang Yeang, Academia Sinica

Contributed Session CS007: Advances in Causal Inference with Complex and Missing Data

Room: Xingde Hall

Chair: Hairong Xiao, Hunan Normal University

- 13:30 带协变量缺失的高维线性回归
Zihao Jiang, Southwestern University of Finance and Economics
- 13:50 Nonparametric Sensitivity Analysis for Unobserved Confounding with Survival Outcomes
Rui Hu, Shenzhen Technology University
- 14:10 基于缺失患者报告结局数据的亚组治疗效应检测
Shenran Deng, Renmin University of China
- 14:30 Transition and dynamic reconfiguration in late-life depression based on hidden Markov model
Hairong Xiao, Hunan Normal University
- 14:50 Assessing Global Border Controls as Responses to Pandemic Using Real-World Data and Target Trial Emulation
Zhiyao Li, Sun Yat-sen University

Invited Session IS076: Advances in Risk and Uncertainty: Modeling, Quantification, and Learning

Room: Zhongde Hall

Chair: Qihe Tang, UNSW Sydney

Organizer: Qihe Tang, UNSW Sydney

- 13:30 Distributional Regression & Uncertainty Quantification with Deep Learning
Patrick Laub, UNSW
- 13:55 Uncertainty Learning for Portfolio Optimization on Big Data
Yanrong Yang, Australian National University
- 14:20 A Risk Model with Stochastic Quadratic Intensity
Hongbiao Zhao, Shanghai University of Finance and Economics
- 14:45 Distributionally Robust Optimization against Ambiguity across Two Layers
Qihe Tang, UNSW Sydney

Invited Session IS084: Recent Advances in Statistical Learning and Machine Learning

Room: Meeting Room B

Chair: Dingke Tang, Washington University in St. Louis

Organizer: Dingke Tang, Washington University in St. Louis

- 13:30 Geodesic Causal Inference
Yidong Zhou, University of California, Davis



- 13:55 Interpretable Personalized Online Reinforcement Learning with Applications in Business and Healthcare
Ran Chen, Washington University in St. Louis
- 14:20 Privacy-Preserving Transfer Learning for Community Detection in Multiple Networks
Shujie Ma, University of California, Riverside
- 14:45 The synthetic instrument: From sparse association to sparse causation
Dingke Tang, Washington University in St. Louis

Invited Session IS053: Novel Methods for Large-scale Genetic and Health Data Analysis

Room: Zhicheng Room

Chair: Jianqiao Wang, Tsinghua University

Organizer: Jianqiao Wang, Tsinghua University

- 13:30 Local genetic correlation via knockoffs reduces confounding due to cross-trait assortative mating
Shiyang Ma, Shanghai Jiao Tong University
- 13:50 MultiSTAAR: a powerful multi-trait rare variant analysis framework for biobank sequencing data
Zilin Li, Northeast Normal University
- 14:10 Individualized dynamic latent factor model with application in mobile health data
Fei Xue, Purdue University
- 14:30 Deciphering proteins in Alzheimer's disease: A new Mendelian randomization method integrated with AlphaFold3 for 3D structure prediction
Zhonghua Liu, Columbia University
- 14:50 Heritability estimation with similarity representation
Jianqiao Wang, Tsinghua University

Contributed Session CS003: Recent Advances in Structured and High-Dimensional Time Series Modeling

Room: Wende Hall

Chair: Yashuang Li, Yunnan University

- 13:30 Chang-Point Detection in Network Vector Autoregressive Models
Yi Ding, University of International Business and Economics
- 13:50 Matrix Factor Model with Structural Breaks
Changwei Zhao, Xiamen University
- 14:10 Two-way Homogeneity Pursuit for Quantile Network Vector Autoregression
Wenyang Liu, Fudan University
- 14:30 Matrix Time Series Modeling: A Hybrid Framework Combining Autoregression and Common Factors
Zhiyun Fan, Shanghai Jiao Tong University
- 14:50 Exponentially Tilted Empirical Likelihood Inference for Quantile-GARCH Models
Yashuang Li, Yunnan University

Contributed Session CS004: Advances in Federated Learning and Distributed Statistical Inference

Room: Ziguang Hall D

Chair: Xuejun Ma, Soochow University

- 13:30 Testing For Heterogeneity in Distributed Statistical Learning
Zelin Xiao, Peking University
- 13:50 OmniFC: Rethinking Federated Clustering via Lossless and Secure Distance Reconstruction
Jie Yan, Central University of Finance and Economics
- 14:10 Factor-Assisted Federated Learning for Personalized Optimization with Heterogeneous Data
Huiyun Tang, Renmin University of China
- 14:30 Federated Learning based on Kernel Local Differential Privacy and Low Gradient Sampling
Yi Chen, Yunnan University
- 14:50 Quantile regression for a decentralized distributed system
Xuejun Ma, Soochow University

Contributed Session CS005: Innovative Approaches to Spatio-Temporal and High-Dimensional Data Analysis

Room: Meeting Room C

Chair: Jingxin Xi, Renmin University of China

- 13:30 Beyond the Surface: Advanced Estimation of Ocean Interior Velocities via Surface Observations
Xinru Ding, Peking University
- 13:50 融合多源信息的 TimeGPT-GARCH 族金融市场波动率预测模型
Haiqing Chen, Nanjing University Of Finance & Economics
- 14:10 A further review on the optimal fingerprinting approach for climate studies, the case of errors in fingerprints
Hanyue Chen, Peking University
- 14:30 Partial Functional Dynamic Structural Equation Model
Xinwen Liu, Yunnan University (Southwest United Graduate School)
- 14:50 Sparse Boosting for Additive Spatial Autoregressive Model with High Dimensionality
Jingxin Xi, Renmin University of China

Contributed Session CS006: Frontiers in Statistical Learning for Complex Time Series and Networks

Room: Meeting Room D

Chair: Zinan Zhao, Zhejiang University



- 13:30 Multiple Change-point Detection for High-dimensional Functional Time Series
Caixia Xu, Shanghai University of Finance and Economics
- 13:50 A Unified Principal Components Analysis for Stationary Functional Time Series
Zerui Guo, Sun Yat-Sen University
- 14:10 Random Fourier Features Based Gaussian Process Models for Stochastic Simulations
Ying Wu, The Chinese University of HongKong, Shenzhen
- 14:30 Statistical Inference for Community Detection in Dynamic Networks
Yangkuo Li, Zhejiang University of Finance and Economics
- 14:50 A Conformalized Empirical Bayes Method for Multiple Testing with Side Information
Zinan Zhao, Zhejiang University

Invited Session IS091: From Experiments to Tensors: Innovations in High-Dimensional Statistical Methods

- Room: Xinde Hall
Chair: Shiyuan He, Beijing Technology and Business University
Organizer: Shiyuan He, Beijing Technology and Business University
- 13:30 The Promises of Multiple Experiments: Identifying Joint Distribution of Potential Outcomes
Peng Wu, Beijing Technology and Business University
- 13:55 Hyperspectral and Multispectral Image fusion with Functional Data Analysis Techniques
Lingxin Gongye, Northeast Normal University
- 14:20 Ordering factorial designs with good stratification properties
Hui Li, Beijing Technology and Business University
- 14:45 Group SLOPE Penalized Low-Rank Tensor Regression
Yang Chen, Beijing Technology and Business University

2025-07-11 15:30-17:10

Invited Session IS002: Recent Advances in Network Research

- Room: Golden Hall 1+2
Chair: Heping Zhang, Yale University
Organizer: Heping Zhang, Yale University
- 15:30 When can weak latent factors be statistically inferred?
Jianqing Fan, Princeton University
- 15:55 Counting Cycles with AI
Jiashun Jin, Southeast University

- 16:20 A new spectral approach to dynamic network analysis
Tracy Ke, Harvard University
- 16:45 Optimal Experimental Design for Neighborhood-Based Network Regression
Linglong Kong, University of Alberta

Invited Session IS004: Conformal Inference and Selective Inference

- Room: Golden Hall 3
Chair: Haojie Ren, Shanghai Jiao Tong University
Organizer: Wenguang Sun, Zhejiang University
- 15:30 Full-conformal novelty detection: A powerful and non-random approach
Zhimei Ren, University of Pennsylvania
- 15:55 Structured E-Value Filter for Set-Wise Inference, with Applications to Brain Imaging Studies
Wenguang Sun, Zhejiang University
- 16:20 Selective Randomization Inference for Adaptive Experiments
Qingyuan Zhao, University of Cambridge
- 16:45 Optimal Model Selection for Conformalized Robust Optimization
Changliang Zou, Nankai University

Invited Session IS006: Recent Development on High Dimensional and Spatial Data Analysis

- Room: Xiangyun Hall
Chair: Hengjian Cui, Capital Normal University
Organizer: Hengjian Cui, Capital Normal University
- 15:30 TBD
Zudi Lu, City University of Hong Kong
- 15:55 Parameter-transfer in spatial autoregressive models via model averaging
Xinyu Zhang, University of Chinese Academy of Sciences
- 16:20 A Gaussian Algorithmic Stability Framework for Post-Selection Inference
Wei Zhong, Xiamen University
- 16:45 Model-free feature screening for ultrahigh-dimensional classification data
Feng Zou, Zhongnan University of Economics and Law

Invited Session IS078: Research on the Frontier Issues of Complex System Networks in Economic and Social

- Room: Ziguang Hall A
Chair: Yanyun Zhao, Renmin University of China
Organizer: Yanyun Zhao, Renmin University of China
- 15:30 Net analysis in Chinese city production
Yafei Wang, Beijing Normal University



- 15:55 Research on Theoretical and Methodological Approaches for Statistical Analysis of Economic Complex System Networks
Yanyun Zhao, Renmin University of China
- 16:20 The Evolution of China's Logistics Cost Footprint Spatial Network and Analysis of Influencing Factors
Qian Guo, Beijing Wuzi University
- 16:45 Research on the Measurement and Network Structure of China's Logistics Industry in the Context of Dual Circulation
Song Han, Beijing Wuzi University

Invited Session IS022: Advanced Modelling Techniques for Complex Structures

- Room: Ziguang Hall B
Chair: Xueqin Wang, University of Science and Technology of China
Organizer: Xueqin Wang, University of Science and Technology of China
- 15:30 Two-way latent matching model for network analysis
Ting Li, Hong Kong Polytechnic University
- 15:55 A dynamic network autoregressive model for time-varying network-link data
Jingnan Zhang, University of Science and Technology of China
- 16:20 A Semiparametric Regression Model for Spatiotemporal Processes with Nonseparable Covariance Structures
Hui Huang, Renmin University of China
- 16:45 Change point detection for tensor data with low-rank and sparse structure
Ning Wang, Beijing Normal University

Invited Session IS030: Recent Advancements in Deep Learning Theory

- Room: Ziguang Hall C
Chair: Yuling Jiao, Wuhan University
Organizer: Yuling Jiao, Wuhan University
- 15:30 Learning guarantee of reward modeling using deep neural networks
Ruijian Han, The Hong Kong Polytechnic University
- 15:55 Model Free Prediction with Uncertainty Assessment
Lican Kang, Wuhan University
- 16:20 Wasserstein Distributionally Robust Nonparametric Regression
Changyu Liu, The Hong Kong Polytechnic University
- 16:45 Rates for least squares using over-parameterized neural networks
Yunfei Yang, Sun Yat-sen University

Invited Session IS038: Recent Advances in Modeling Structured Data

- Room: Dongfang Hall A
Chair: Jingfei Zhang, Emory University
Organizer: Jingfei Zhang, Emory University
- 15:30 MOSAICA with application to global factor investment
Haipeng Shen, HKU Business School
- 15:55 Change surface regression for nonlinear subgroup identification
Jialiang Li, National University of Singapore
- 16:20 TBD
Wen Zhou, New York University
- 16:45 A General Latent Embedding Approach for Modeling Non-uniform High-dimensional Sparse Hypergraphs with Multiplicity
Shihao Wu, University of Michigan

Invited Session IS046: Advances in Statistical Methods for Genetic and Omics Data Analysis

- Room: Dongfang Hall B
Chair: Pei Wang, Icahn School of Medicine at Mount Sinai
Organizer: Pei Wang, Icahn School of Medicine at Mount Sinai
- 15:30 A Generalized Integration Approach to Association Analysis', focusing on epi side of tumor association analysis
Li Hsu, Fred Hutchinson Cancer Center
- 15:55 Evidence-based practice for Epi-transcriptomic data harmonization
Lixuan Qin, Memorial Sloan Kettering Cancer Center
- 16:20 Integrative multi-omics analysis elucidates molecular links underlying genetic effects on complex traits
Lin S. Chen, University of Chicago
- 16:45 Learning ligands and receptors networks using directed acyclic graphical models with mixed variables
Jie Peng, University of California at Davis

Invited Session IS054: New machine and deep learning tools in neuroscience, wearable device and genetics data

- Room: Baiyuan Hall
Chair: Annie Qu, University of California Santa Barbara
Organizer: Annie Qu, University of California Santa Barbara
- 15:30 Conformal prediction after efficiency-oriented model selection
Wanrong Zhu, University of California, Irvine
- 15:55 Improve Fairness with Shift-Adjusted Neyman-Pearson Classifiers via Single Index Modeling (SACSI)
Yingqi Zhao, Fred Hutchinson Cancer Center



- 16:20 Statistical analysis of 3D path data in Minecraft
Weining Shen, University of California, Irvine
- 16:45 Investigating Causal Effects of Wearable Device Usage in Diabetes Management
Jin Zhou, University of California, Los Angeles

Invited Session IS061: Quantile Regression and Beyond for High-dimensional and Complex Data

Room: Ziguang Hall E

Chair: Ben Dai, The Chinese University of Hong Kong

Organizer: Xinyuan Song, The Chinese University of Hong Kong

- 15:30 Heterogeneous Quantile Treatment Effect Estimation with High-Dimensional Confounding
Huichen Zhu, The Chinese University of Hong Kong
- 15:55 Generalized quantile regression for recurrent event data with covariate measurement error
Haijin He, Shenzhen University
- 16:20 Statistical Inference for High-dimensional Linear Regression Based on Feature Transfer Learning
Jiayu Huang, Central China Normal University
- 16:45 Sample Efficient Nonparametric Regression via Low-Rank Regularization
Jiakun Jiang, Beijing Normal University

Invited Session IS029: Foundations and Applications of Modern Machine Learning

Room: Huaide Hall

Chair: Ting Li, Shanghai University of Finance and Economics

Organizer: Hongtu Zhu, The University of North Carolina at Chapel Hill

- 15:30 Statistical Generative Models for Unstructured Image Data
Guohao Shen, The Hong Kong Polytechnic University
- 15:55 D-CDLF: Decomposition of Common and Distinctive Latent Factors for Multi-view High-dimensional Data
Hai Shu, New York University
- 16:20 Doubly robust alignment for large language models
Chengchun Shi, London school of economics and political science

Contributed Session CS013: Bayesian Frontiers in High-Dimensional and Structured Data Analysis

Room: Xingde Hall

Chair: Yijing Li, King's College London

- 15:30 A Modified Normalized Power Prior Approach for Bayesian Adaptive Borrowing in Item Response Theory Models
Qiang Zhang, Central University of Finance and Economics

- 15:50 Data-Adaptive Transformation Screening with FDR Control for Structural Sparsity Problems: Applications to Brain MRI Analysis
Han Su, Beijing Normal University
- 16:10 Structure Identification and Learning for Ultra-High-Dimensional Generalized Partially Linear Spatially Varying Coefficient Models
Yuanyuan Zhang, Soochow University
- 16:30 Unveiling Genetic Complexity: Fine Mapping with h2-D2 Bayesian Approach in Multi-Ancestry Settings
Yan Dora Zhang, The University of Hong Kong
- 16:50 Bayesian empirical likelihood procedure for evaluating racial disproportionality of policing Stop & Search in London
Yijing Li, King's College London

Invited Session IS077: Modern Approaches to High-Dimensional Analysis

Room: Zhongde Hall

Chair: Seyoung Park, Yonsei University

Organizer: Seyoung Park, Yonsei University

- 15:30 Transfer Learning for Benignly Overfitted Minimum Norm Interpolator
Yeichan Kim, Yonsei University
- 15:55 Adaptation and Generalization in High-Dimensional Ising Models Using Transfer Learning
Joonho Kim, Yonsei University
- 16:20 Iterative Nuclear Norm Minimization for Parameter Estimation in High-Dimensional Multiple Response Models
Hongshin Choi, Yonsei University

Invited Session IS085: Modern Bayesian Computation and Applications

Room: Meeting Room B

Chair: Cheng Zhang, Peking University

Organizer: Cheng Zhang, Peking University

- 15:30 On the Particle Approximation of Lagged Feynman-Kac Formulae
Ajay Jasra, The Chinese University of Hong Kong (Shenzhen)
- 15:55 Financial forecasting with voice time series data
Feng Li, Peking University
- 16:20 Approximate Bayesian computation methods for complex data
Shijia Wang, ShanghaiTech University
- 16:45 Generative or Discriminative? Rethinking Image Generation under Complex Conditions
Tianyang Hu, National University of Singapore



Contributed Session CS008: Advances in Causal Inference for Fair and Robust Decision Making

Room: Zhicheng Room

Chair: Xin Lu, Tsinghua University

- 15:30 Individualized Inference for Causal Fairness through Conformal Mediation Analysis
Cheng Yu, Tsinghua University
- 15:55 Deep Orthogonal Learner for Conditional Quantile Treatment Effect Estimation
Qixian Zhong, Xiamen University
- 16:20 Heterogeneous Quantile Treatment Effect Estimation for Longitudinal Data with High-Dimensional Confounding
Zhixin Qiu, East China Normal University
- 16:45 Rerandomization for covariate balance mitigates \$p\$-hacking in regression adjustment
Xin Lu, Tsinghua University

Contributed Session CS009: Recent Advances in Time Series, Risk Modeling, and High-Dimensional Regression

Room: Wende Hall

Chair: Junlong Zhao, Beijing Normal University

- 15:30 On smooth transition interval autoregressive models
Kai Yang, Changchun University of Technology
- 15:55 Semiparametric marginal promotion time cure model for clustered survival data
Yi Niu, Dalian University of Technology
- 16:20 Fast Multinomial Logistic Regression with Group Sparsity
Sheng Fu, Nankai University
- 16:45 Approximation Error from Discretizations and Its Applications
Junlong Zhao, Beijing Normal University

Contributed Session CS010: Advances in Factor-Augmented and Financial Modeling

Room: Ziguang Hall D

Chair: Xiaoyang Wei, East China Normal University

- 15:30 Matrix-factor-augmented regression
Xinlei Wu, Beijing Normal-HongKong Baptist University
- 15:55 Robust matrix auto-regressions and digital finance analysis in Yangtze River Economic Belt
Xuemei Hu, Chongqing Technology and Business University
- 16:20 Anomaly or Risk Factor? A Stepwise Evaluation
Jun Zhang, Southeast University
- 16:45 Factor-augmented Convolution Smoothed Quantile Regression
Xiaoyang Wei, East China Normal University

Contributed Session CS011: Advances in Personalized and Survival Data Analysis

Room: Meeting Room C

Chair: Zhengyang Yu, Capital University of Economics and Business

- 15:30 Learning individualized treatment rules for a target population with right-censored survival outcomes
Peiyu He, Peking University
- 15:50 Efficient Risk Assessment of Time-to-Event Targets With Adaptive Information Transfer
Jie Ding, Dalian University of Technology
- 16:10 Semiparametric Bayesian regularized quantile regression to mixed effect model for health insurance data
Zhongzheng Wang, ZheJiang university of finance and economics
- 16:30 MM-LSNet: A Multi-Level Multi-Task Framework for Laser Spot Analysis in UWF-OCTA Images
Yuting Liao, Sun Yat-sen University
- 16:50 Transfer learning for accelerated failure time model with microarray data
Zhengyang Yu, Capital University of Economics and Business

Contributed Session CS012: Modern Approaches to Robust Learning and Inference

Room: Meeting Room D

Chair: Yuheng Ma, Renmin University of China

- 15:30 A Multi-Method Integration Framework for Wind Speed Prediction Using Optimized Deep Neural Networks
Xinyi Xu, North Minzu University
- 15:55 Defense Against Syntactic Textual Backdoor Attacks with Token Substitution
Yao Li, University of North Carolina at Chapel Hill
- 16:20 e-GAI: e-value-based Generalized α -Investing for Online False Discovery Rate Control
Yifan Zhang, Shanghai Jiao Tong University
- 16:45 Locally Private Nonparametric Contextual Multi-armed Bandits with Transfer Learning
Yuheng Ma, Renmin University of China

Invited Session IS092: Statistical Analysis of Network Data

Room: Xinde Hall

Chair: Kuangnan Fang, Xiamen University

Organizer: Kuangnan Fang, Xiamen University

- 15:30 Functional Dependence of Network Data: An Approach without Metric Space
Xingbai Xu, Xiamen University



- 15:55 Network Assisted Approximate Factor Model Estimation
Xinyan Fan, Renmin University of China
- 16:20 Estimation of a Spatial Autoregressive Model with Endogenous Group Formation
Dan Pu, Southwestern University of Finance and Economics
- 16:45 Network Cross-Validation for Nested Models by Edge-Splitting
Yuanxing Chen, Tsinghua University

2025-07-11 18:00-19:30**Poster Session**Room: Poster Exhibition Area (2nd floor)**2025-07-11 19:00-20:30****Launch Ceremony of ECPH Encyclopedia of Statistics**

Room: Ziguang Hall C

Chair: Hong Ji, Capital University of Economics and Business

2025-07-12 08:30-09:20**Plenary Talk 4**

Room: Golden Hall

Chair: Jiashun Jin, Southeast University

- 08:30 Towards an understanding of the principles behind deep learning
Weinan E, Peking University

2025-07-12 09:20-10:10**Plenary Talk 5**

Room: Golden Hall

Chair: Bingyi Jing, Southern University of Science and Technology

- 09:20 Statistics in the Era of Large Models
Jian Huang, The Hong Kong Polytechnic University

2025-07-12 10:30-11:20**Plenary Talk 6**

Room: Golden Hall

Chair: Jianqing Fan, Princeton University

- 10:30 Generative AI for Economic Equilibrium Analyses and Financial Applications
Will Cong, Cornell University

2025-07-12 11:20-12:10**Panel Discussion: Strategies and Best Practices in Academic Writing**

Room: Golden Hall

Chair: Jia Gu, Zhejiang University

- 11:20 Strategies and Best Practices in Academic Writing
Jianqing Fan, Princeton University
Xuming He, Washington University in St. Louis
Lan Wang, University of Miami
Heping Zhang, Yale University
Ji Zhu, University of Michigan

2025-07-12 13:30-15:10**Invited Session IS007: Causal Inference**

Room: Xiangyun Hall

Chair: Xiaohua Zhou, Peking University

Organizer: Xiaohua Zhou, Peking University

- 13:30 Doubly Robust Sequential Quantile Off-Policy Inference
Lan Wang, University of Miami
- 13:55 Non-greedy Tree-based Learning for Estimating Global Optimal Dynamic Decision Rules With Continuous Treatment Dosage
Lu Wang, University of Michigan
- 14:20 Causal Inference for all: Marginal causal effects for all outcomes truncated by death
Linbo Wang, University of Toronto
- 14:45 *Min Zhang*, Tsinghua University

Invited Session IS015: Recent Advances in Statistical Network Analysis

Room: Ziguang Hall A

Chair: Ji Zhu, University of Michigan

Organizer: Ji Zhu, University of Michigan

- 13:30 Pseudo-Likelihood Ratio Screening based on Network Data with Applications
Danyang Huang, Renmin University of China
- 13:55 BASIC: Bipartite Assisted Spectral-clustering for Identifying Communities in Large-scale Networks
Jingyuan Liu, Xiamen University
- 14:20 Nonparametric learning of heterogeneous graphical model on network-linked data
Yuwen Wang, Chinese University of Hong Kong
- 14:45 A preferential latent space model for text networks
Jingfei Zhang, Emory University

Invited Session IS023: Recent Methods in High-Dimensional Inference and Machine Learning

Room: Ziguang Hall B

Chair: Yumou Qiu, Peking University

Organizer: Yumou Qiu, Peking University

- 13:30 Robust Rank Canonical Correlation Analysis for Multivariate Survival Data
Di He, Nanjing University



- 13:55 Estimation of Multiple Large Precision Matrices and Its Application to High-Dimensional Quadratic Discriminant Analysis
Yingli Qin, University of Waterloo
- 14:20 Adaptive Block-Based Change-Point Detection for Sparse Spatially Clustered Data with Applications in Remote Sensing Imaging
Zhengyuan Zhu, Iowa State University
- 14:45 Semiparametric sieve estimation for survival data with two-layer censoring
Yudong Wang, University of Pennsylvania

- 13:30 Theoretical Guarantees for Alternative Least Square Algorithm in Tensor CP Decomposition
Anru Zhang, Duke University
- 13:55 Statistical Inference for Low-Rank Tensor Models
Yuefeng Han, University of Notre Dame
- 14:20 Robust and Optimal Tensor Estimation via Robust Gradient Descent
Xiaoyu Zhang, Tongji University
- 14:45 Robust Matrix Estimation with Kronecker Product Structures via Scaled Projected Gradient Descent
Di Wang, Shanghai Jiao Tong University

Invited Session IS031: AI for Financial Economics

Room: Ziguang Hall C

Chair: Jianqing Fan, Princeton University

Organizer: Jianqing Fan, Princeton University

- 13:30 Learning the Stochastic Discount Factor
Yingying Li, The Hong Kong University of Science and Technology
- 13:55 Neural Tangent Kernel in Implied Volatility Forecasting: A Nonlinear Functional Autoregression Approach
Ying Chen, National University of Singapore
- 14:20 Let the tables talk!
Qingfu Liu, Fudan University
- 14:45 Learning Volatility Roughness from Options
Chenxu Li, Peking University

Invited Session IS039: 健康医疗大数据分析

Room: Dongfang Hall A

Chair: Xiuhua Guo, Capital Medical University

Organizer: Xiuhua Guo, Capital Medical University

- 13:30 Sparse sample-specific matrix factor regression for interpretable phenotype prediction in scRNA-seq data
Mengyun Wu, Shanghai University of Finance and Economics
- 13:55 EpiRiskNet: incorporating graph structure and static data as prior knowledge for improved time-series forecasting
Xiaoyong Sai, Chinese People's Liberation Army (PLA) General Hospital
- 14:20 两异质人群背景下基于迁移学习的孟德尔随机化方法
Fuzhong Xue, Shandong University
- 14:45 基于时间尺度的动态预测模型——应用到阿尔茨海默病病程进展
Zheng Chen, Southern Medical University

Invited Session IS047: Recent Advances in Tensor Data Analysis

Room: Dongfang Hall B

Chair: Di Wang, Shanghai Jiao Tong University

Organizer: Di Wang, Shanghai Jiao Tong University

Invited Session IS055: Bernoulli Special Session on Applied Probability

Room: Baiyuan Hall

Chair: Ajay Jasra, The Chinese University of Hong Kong (Shenzhen)

Organizer: Ajay Jasra, The Chinese University of Hong Kong (Shenzhen)

- 13:30 Convergence and Inference of Stream SGD, with Applications to Queueing Systems and Inventory Control
Xinyun Chen, The Chinese University of Hong Kong, Shenzhen
- 13:55 Fourier dimension of the graph of fractional Brownian motion with $H > 1/2$
Cheuk Yin Lee, The Chinese University of Hong Kong, Shenzhen
- 14:20 Convolution Bounds on Quantile Aggregation
Yang Liu, The Chinese University of Hong Kong, Shenzhen
- 14:45 Maximum Entropy Estimator for Hidden Markov Models
Xinyu Wang, Zhongnan University of Economics and Law

Invited Session IS062: Statistical Methods Elevated by Modern Computation and Massive Data

Room: Ziguang Hall E

Chair: Jiwei Zhao, University of Wisconsin-Madison

Organizer: Yanyuan Ma, Penn State University

- 13:30 Drawing inference from predicted data
Jiwei Zhao, University of Wisconsin-Madison
- 13:55 Functional principal component analysis with informative observation times
Peijun Sang, University of Waterloo
- 14:20 Accurate Inference for Penalized Logistic Regression
Yuming Zhang, Harvard University



14:45 Regret Minimization and Statistical Inference in Online Decision Making with High-dimensional Covariates
Congyuan Duan, The Hong Kong University of Science and Technology

Invited Session IS070: Economic Statistics and High Quality Economic Development

Room: Huaide Hall
Chair: Weiyang Ping, Jiangxi University of Finance and Eco
Organizer: Weiyang Ping, Jiangxi University of Finance and Eco

13:30 How Digital Economy Promotes Rural Revitalization: The Road to Transform the County Industrial Structure under Rural E-commerce Policies
Yong Wang, Dongbei University of Finance and Economics

13:55 Innovation Propensity and Corporate Performance
Lingbing Feng, Jiangxi University of Finance and Economics

14:20 How Valuable are Chinese Patents?——An Innovative Measurement Distinguishing Private Value and Social Value
Aiting Xu, Zhejiang Gongshang University

14:45 Real-time Monitoring of Economic Climate Based on High-dimensional Multisource Data
Xiaobin Tang, University of international Business and Economics

Contributed Session CS019: Empirical Advances in Economic Policy and Machine Learning Applications

Room: Xingde Hall
Chair: Gefang Xu, Zhengzhou University

13:30 共同富裕促进代际收入流动吗——基于微观家庭数据的经验研究
Saihong Huang, Anhui University of Finance and Economics

13:55 AI 智能体能否成为智能投顾新助手
Zhanye Luo, University of Chicago

14:20 数据要素市场化配置对企业新质生产力的影响研究——基于 A 股上市公司的经验证据
Zhumeng Li, Jilin University of Finance and Economics

14:45 基于协变量自适应随机化的多重政策分位数处理效应模型及其应用
Gefang Xu, Zhengzhou University

Invited Session IS089: Statistics for Reliable AI

Room: Zhongde Hall
Chair: Ching-Kang Ing, National Tsing Hua University
Organizer: Yuhong Yang, Tsinghua University

13:30 MAP: Multi-Human-Value Alignment Palette for Safe and Personalized Generative AI
Jie Ding, University of Minnesota

13:55 Adversarial Learning for Nonparametric Regression: Minimax Rate and Adaptive Estimation
Jingfu Peng, Tsinghua University

14:20 Greedy Algorithms for High-Dimensional Generalized Linear UnderCovariate Shift
Ching-Kang Ing, National Tsing Hua University

Invited Session IS086: Theory and Methodologies in Orthogonal Experimental Design

Room: Meeting Room B
Chair: Zujun Ou, Jishou University
Organizer: Hong Qin, Zhongnan University of Economics and Law

13:30 Grouped Orthogonal Arrays
C.Devon Lin, Queen's University

13:55 混合水平强正交表的构造及其应用
Shanqi Pang, Henan Normal University

14:20 Multi-resolution subsampling for linear classification with massive data
Jun Yu, Beijing Institute of Technology

14:45 Theory of J-characteristics of four-level designs under quaternary codes
Zujun Ou, Jishou University

Contributed Session CS014: Advances in High-Dimensional Learning and Optimization

Room: Zhicheng Room
Chair: Zhaohui Xu, University of Science and Technology

13:30 Fundamental Bias in Inverting Random Sampling Matrices with Application to Sub-sampled Newton
Zhenyu Liao, Huazhong University of Science and Technology

13:50 Kernel Ridge Regression with Predicted Feature Inputs and Applications to Factor-Based Nonparametric Regression
Chao Wang, Shanghai University of Finance and Economics

14:10 Random k conditional nearest neighbor for high-dimensional data
JiaXuan Lu, Western University

14:30 Optimal and exact recovery on general non-uniform Hypergraph Stochastic Block Model
Haixiao Wang, University of California, San Diego

14:50 Deep batch learning in high-dimensional nonparametric contextual bandits
Zhaohui Xu, University of Science and Technology



Invited Session IS090: Recent Advances in Complex Network

Room: Wende Hall

Chair: Jingli Wang, Nankai University

Organizer: Jingli Wang, Nankai University, Jialiang Li, National University of Singapore

- 13:30 Subsampling Based Inference for Large Networks
Yuguo Chen, University of Illinois Urbana-Champaign
- 13:55 数据结合--网络数据指导下的高维特征最优选取方法
Wanjie Wang, National University of Singapore
- 14:20 UBSea: A unified community detection framework
Hao Chen, University of California, Davis
- 14:45 Exact Minimax Optimality of Spectral Methods in Phase Synchronization and Orthogonal Group Synchronization
Anderson Ye Zhang, University of Pennsylvania

Contributed Session CS016: Advances in Spatial and Causal Inference with Robust Statistical Methods

Room: Ziguan Hall D

Chair: Chong Ding, Northeast Normal University

- 13:30 Statistical inference of spatial heterogeneity regression models
Chuanhua Wei, Minzu University of China
- 13:50 Estimation and Inference of Spatial Autoregressive Model under Complex Network Structure
Shitao Wang, Sun Yat-sen University
- 14:10 Robust Estimation for Dynamic Spatial Autoregression Models with Nearly Optimal Rates
Chunbai Tao, Fudan University
- 14:30 Double Robust Estimation for mixed linear effects models
Haiqiang Ma, Jiangxi University of Finance and Economics
- 14:50 Estimation of Treatment Effects based on Kernel Matching
Chong Ding, Northeast Normal University

Contributed Session CS017: Innovative Statistical Approaches for Complex Biomedical Challenges

Room: Meeting Room C

Chair: Mengyu Li, Renmin University of China

- 13:30 Intersubject functional variability of gray and white matter in autism spectrum disorder
Wei Zhao, Hunan Normal University
- 13:50 Designing Trials with Multiple Objectives using Graphical Approach for Multiple Scenarios
Samuel Wu, University of South Florida
- 14:10 Compound Poisson mixed models for subject-specific multivariate data with left censoring
Guohua Yan, University of New Brunswick

- 14:30 基于相似性动态利用多个真实世界数据源进行疗效估计
Meihua Long, Peking University
- 14:50 Double Optimal Transport for Differential Gene Regulatory Network Inference with Unpaired Samples
Mengyu Li, Renmin University of China

Contributed Session CS018: Advances in Statistical Learning for Complex Clinical and Neuroimaging Data

Room: Meeting Room D

Chair: Zhen Meng, Capital University of Economics and Business

- 13:30 Renewable prediction of model averaging in the Cox proportional hazards model with streaming data
Mengyu Li, Dalian University of Technology
- 13:50 基于随机效应模型对全球多中心临床试验的一致性评价和区域样本量计算
Xinru Ren, East China Normal University
- 14:10 GWM-HFN: 一种用于功能连接组的新型灰白质异构融合网络
Zeqiang Linli, Guangdong University of Foreign Studies
- 14:30 Using Model-Assisted Calibration Methods to Improve Efficiency of Regression Analyses by Integrating Multiple Data Sources
Lingxiao Wang, University of Virginia
- 14:50 On P-value Combination Procedures
Zhen Meng, Capital University of Economics and Business

Invited Session IS093: Statistical Model and Machine Learning Methods for Single Cell Data Analysis

Room: Xinde Hall

Chair: Minghua Deng, Peking University

Organizer: Minghua Deng, Peking University

- 13:30 Identifying Cellular Niches in Spatial Transcriptomics: An Investigation into the Capabilities of Large Language Models
Xiting Yan, Yale University
- 13:55 细胞通讯网络的统计推断
Lin Hou, Tsinghua University
- 14:20 Disentangling single-cell perturbation responses with causality-aware generative model
Lin Wan, Chinese Academy of Sciences
- 14:45 scPLAN: a hierarchical computational framework for single transcriptomics data annotation, integration and cell-type label refinement
Minghua Deng, Peking University

2025-07-12 15:30-17:10

**Invited Session IS008: Recent Developments of Prediction and Inference for High-dimensional Models**

Room: Xiangyun Hall

Chair: Wei Luo, Zhejiang University

Organizer: Hui Zou, University of Minnesota

- 15:30 Minimax Detection Boundary and Sharp Optimal Test for Gaussian Graphical Model
Yumou Qiu, Peking University
- 15:55 Partial penalized quasi-likelihood with covariance matrix misspecification
Jing Zhou, University of East Anglia
- 16:20 A Robust Combination Test Based on EDF Statistics for Goodness-of-Fit
Le Zhou, Hong Kong Baptist University
- 16:45 Covariate-Adjusted Generalized Factor Analysis with Application to Testing Fairness
Ouyang Jing, The University of Hong Kong

Invited Session IS016: Recent Progress in Statistical Machine Learning

Room: Ziguang Hall A

Chair: Mengchu Zheng, Rutgers University

Organizer: Zijian Guo, Rutgers University, Wenguang Sun Zhejiang University

- 15:30 Causal Invariance Learning via Efficient Optimization of a Nonconvex Objective
Yifan Hu, Rutgers Stats
- 15:55 TBD
Yuansi Chen, ETH Zürich
- 16:20 A Unified Framework for Large-Scale Classification: Error Rate Control and Optimality
Yin Xia, Fudan University
- 16:45 Robust Reinforcement Learning under Diffusion Models for Data with Jumps
Yazhen Wang, University of Wisconsin-Madison

Invited Session IS024: 大数据计量经济模型:理论与应用

Room: Ziguang Hall B

Chair: Weiguo Wang, Dongbei University of Finance and Economics

Organizer: Weiguo Wang, Dongbei University of Finance and Economics

- 15:30 Understanding the Effects of Arousal in Online Reviews on Product Demand from New Versus Returning Customers
Jian Xu, Dongbei University of Finance and Economics
- 15:55 基于混频时变 DFM 实时监测宏观经济状况
Tingguo Zheng, Xiamen University
- 16:20 Profile GMM estimation of dynamic spatial panels with multidimensional endogeneity and interactive fixed effects
Xiaoyi Han, Xiamen University

- 16:45 Bridging Factor and Sparse Models in Time-varying Environments

Lingyun Zhou, Tsinghua University**Invited Session IS032: Statistical Learning in Medicine**

Room: Ziguang Hall C

Chair: Jialiang Li, National University of Singapore

Organizer: Jialiang Li, National University of Singapore

- 15:30 Exploring the Heterogeneity in Recurrent Episode Lengths Based on Quantile Regression
Limin Peng, Emory University
- 15:55 A Scalable Distribution-Free Test for Detecting Spatially Variable Genes in Large-Scale Spatial Transcriptomics
Xin Yuan, Shanghai Jiao Tong University
- 16:20 Imputation-based Q-learning with regression trees for censored survival data
Yu Cheng, University of Pittsburgh
- 16:45 Kernel-Profile Efficient Estimation in Generalized Partially Linear Models With Missing Outcomes in Longitudinal Studies
Zhongzhe Ouyang, Guangzhou University

Invited Session IS040: Handling Imperfect Data in Complex Problems

Room: Dongfang Hall A

Chair: Grace Yi, University of West Ontario

Organizer: Yanyuan Ma, Penn State University

- 15:30 Goodness-of-fit tests in functional-coefficient autoregressive models with measurement error
Pei Geng, University of New Hampshire
- 15:55 A Unified Framework of Analyzing Missing Data and Variable Selection using Regularized Likelihood
Wenqing He, University of West Ontario
- 16:20 A Debiased Approach to Sparse Function-on-Scalar Regression with Covariate Measurement Error
Grace Yi, University of West Ontario

Invited Session IS048: Recent advances in statistical learning and machine learning

Room: Dongfang Hall B

Chair: Zhanrui Cai, The University of Hong Kong

Organizer: Zhanrui Cai, The University of Hong Kong

- 15:30 Privacy Introduces Minor Trade-Offs in Fine-Tuning: A Representation Learning Perspective
Chendi Wang, Xiamen University
- 15:55 Generalizability through the Lens of Distributional Learning
Xinwei Shen, ETH Zurich
- 16:20 Multi-source stable variable importance measure via adversarial machine
Molei Liu, Peking University



16:45 Sparsity-Induced Global Matrix Autoregressive Model with Auxiliary Network Data
Dan Yang, The University of Hong Kong

Invited Session IS056: 医疗器械临床试验统计方法学

Room: Baiyuan Hall

Chair: Wei Li, National Center for Cardiovascular Diseases, Yuxiu Liu, PLA Eastern Theater General Hospital

Organizer: Wei Li, National Center for Cardiovascular Diseases

15:30 器械真实世界研究作为产品上市支持性证据的统计学考量

Yang Wang, National Center for Cardiovascular Diseases

15:50 混合设计和贝叶斯统计支持监管决策案例分享

Yan Hou, Peking University

16:10 脑电数据的自动标记与统计分析

Peifeng Tong, Peking University

16:30 Win Ratio 方法及其在医疗器械试验中的应用

Yanyan Zhao, National Center for Cardiovascular Diseases

16:45 Discussant

Invited Session IS063: Advanced Statistical Methods for Clinical and Biomedical Data Analysis

Room: Ziguang Hall E

Chair: Haijin He, Shenzhen University

Organizer: Xinyuan Song, The Chinese University of Hong Kong

15:30 Inference on Potentially Identified Subgroups in Clinical Trials

Xinzhou Guo, The Hong Kong University of Science and Technology

15:55 A Longitudinal Multi-Domain Latent Structure Model for Domain-specific Disease Progression

Kai Kang, Sun Yat-sen University

16:20 Distributed Proportional Likelihood Ratio Model with Application to Data Integration Across Clinical Sites

Jiasheng Shi, The Chinese University of Hong Kong (Shenzhen)

16:45 Deep Mutual Density Ratio Estimation with Bregman Divergence and its Applications

Dongxiao Han, Nankai University

Invited Session IS071: Statistical Methods in Deep Learning

Room: Huaide Hall

Chair: Hongxin Wei, Southern University of Science and Technology

Organizer: Hongxin Wei, Southern University of Science and Technology

15:30 Understanding Neural Network Training: A Dynamical Stability Perspective

Lei Wu, Peking University

15:55 Accelerating Convergence in Bayesian Few-Shot Classification

Feng Zhou, Renmin University of China

16:20 基于 SLeM 框架的学习率自适应方法

Jun Shu, Xi'an Jiaotong University

16:45 矩阵信息论视角下的表征学习

Weiran Huang, Shanghai Jiao Tong University

Contributed Session CS023: Advances in High-Dimensional Inference and Graphical Modeling

Room: Xingde Hall

Chair: Jing Lv, Southwest University

15:30 High-dimensional graphical inference via partially penalised regression

Ni Zhao, University of Science and Technology of China

15:50 Time-lagged marginal expected shortfall

Yuwei Zhao, Xi'an Jiaotong-Liverpool University

16:10 Bayesian Grouping-Gibbs Sampling Estimation of High-dimensional Linear Model with Non-sparsity

Shanshan Qin, Tianjin University of Finance and Economics

16:30 Group Sparse β -Model: Multi-Magnitude Core Node Influence

Zhonghan Wang, Beijing Normal University

16:50 Robust Model Averaging Prediction of Longitudinal Response with Ultrahigh-dimensional Covariates

Jing Lv, Southwest University

Invited Session IS079: Statistical inference with complex data

Room: Zhongde Hall

Chair: TBA

Organizer: Byeong U. Park, Seoul National University

15:30 Efficient and accurate additive regression for high-dimensional data

Seyoung Park, Yonsei University

15:55 Statistical Inference for Topological Data Analysis

Jisu Kim, Seoul National University

16:20 Reduced varying coefficients of regional quantile for multiple responses

Eun Ryung Lee, Sungkyunkwan University

16:45 Joint estimation of monotone curves via functional principal component analysis

Yei Eun Shin, Seoul National University

Invited Session IS087: 均匀设计理论与方法

Room: Meeting Room B

Chair: Yongdao Zhou, Nankai University

Organizer: Hong Qin, Zhongnan University of Economics and Law



- 15:30 Deterministic Construction Methods for Uniform Designs
Yongdao Zhou, Nankai University
- 15:55 A Stratified L₂-Discrepancy with Application to Space-Filling Designs
Ye Tian, Beijing University of Posts and Telecommunications
- 16:20 Design of Order-of-Addition Two-Level Factorial Experiments
Fasheng Sun, Northeast Normal University
- 16:45 Recent works on absolute discrepancy in uniform designs
Yao Xiao, Beijing Institute of Technology

Contributed Session CS041: Advances in Statistical Theory and Methods for Complex Dependence Structures

Room: Zhicheng Room

Chair: Yingying Zhang, Yunnan University

- 15:30 Moment-integrated Bias-adjusted Spectral Method for Community Detection in Multi-layer Networks
Xuefei Wang, Beijing Normal University
- 15:50 Valid Inference for Clustering via Algorithmic Stability
Jiajun Sun, Xiamen University
- 16:10 Composite Kernel Two-Sample Tests
Shurui Lv, Beijing University of Technology
- 16:30 Expectation Identity of the Negative Binomial Distribution and Its Application in the Calculations of High-Order Origin Moments
Yingying Zhang, Yunnan University
- 16:50 Safe, Always-Valid Alpha-Investing Rules For Doubly Sequential Online Inference
Zeyu Yao, Zhejiang University

Contributed Session CS015: Next-Generation Statistical Methods for Complex Data Integration

Room: Wende Hall

Chair: MingShuo Liu, UCDavis

- 15:30 Physics-informed Statistical Data Fusion for Reconstructing Current Fields of An Oceanic Eddy
He Li, Peking University
- 15:50 Semi-supervised multiple testing with weighted false discovery rate control
Zhengkai Wu, Zhejiang University
- 16:10 A Generalized Framework for Approximate Co-Sufficient Sampling
Jie Xie, National University of Singapore
- 16:30 A joint model for graded responses and response times
Xinyu Zhang, Northeast Normal University
- 16:50 Generalized Independence Test for Modern Data
MingShuo Liu, UCDavis

Contributed Session CS020: Innovations in Flexible Modeling for Digital Economies and Network Structures

Room: Ziguang Hall D

Chair: Yimeng Ren, Fudan University

- 15:30 Significance Testing for index in Varying Coefficient models
Haojiao Zhao, Peking University
- 15:50 Stylized facts of metaverse non-fungible tokens
Stephen Chan, American University of Sharjah
- 16:10 Minimax Optimal Design with Spillover and Carryover Effects
Haoyang Yu, Tsinghua University
- 16:30 Mixed-input Gaussian Process Regression: An Errors-in-variables Approach
Penghui Fu, The Chinese University of Hong Kong, Shenzhen
- 16:50 Multi-relational Network Autoregression Model with Latent Group Structures
Yimeng Ren, Fudan University

Contributed Session CS021: Innovations in Statistical Learning for Multimodal Data Analysis

Room: Meeting Room C

Chair: Shenghao Cao, Shanghai Jiao Tong University

- 15:30 Detecting Food Adulteration Using chemical test and Graph-based Semi Supervised Framework
Tongyuan Bai, Beijing Normal - Hongkong Baptist University
- 15:50 Exploring Heavy-Tailed Data in EDA: Visualization Strategies with R Package DeepWater
Yuqing Xue, Tianjin University of Traditional Chinese Medicine
- 16:10 保形预测框架下的心电去噪对抗生成与因果推断的整合
Xing Wang, Renmin University of China
- 16:30 Regime-specific Return Predictability in Quantiles
Xinling Xie, Southwestern University of Finance and Economics
- 16:50 运用人工智能大语言模型技术构建基于空间转录组数据的计算细胞模型
Shenghao Cao, Shanghai Jiao Tong University

Contributed Session CS022: Advances in Bayesian and Machine Learning Methods for Biomedical Data Science

Room: Meeting Room D

Chair: Ke Zhang, Northeast Normal University

- 15:30 Bayesian Integrative Region Segmentation in Spatially Resolved Transcriptomic Studies
Yinqiao Yan, Beijing University of Technology
- 15:50 Mitigating Bias in Analyzing Privacy-Preserved Survival Data
Yi Xiong, State University of New York, Buffalo



- 16:10 PhyloVAE: Unsupervised Learning of Phylogenetic Trees via Variational Autoencoders
Tianyu Xie, Peking University
- 16:30 A spatial-correlated multitask linear mixed-effects model for imaging genetics
Zhibin Pu, ShanghaiTech University
- 16:50 Robust Subgroup Analysis under Rank Regression
Ke Zhang, Northeast Normal University

Invited Session IS094: Recent advancement of adaptive experiments

- Room: Xinde Hall
Chair: Jingshen Wang, UC Berkeley
Organizer: Jingshen Wang, UC Berkeley
- 15:30 Covariate-adaptive design: An overview and recent advances
Wei Ma, Renmin University of China
- 15:55 Optimal Treatment Allocation for Efficient Policy Evaluation in Sequential Decision Making
Ting Li, Shanghai University of Finance and Economics
- 16:20 Dynamic Subgroup Identification in Covariate-adjusted Response-adaptive Randomization Experiments
Yanping Li, UC Berkeley

2025-07-12 18:30-19:30

Panel Discussion: Strategies and Insights for Successful Grant Applications

- 18:30 Strategies and Insights for Successful Grant Applications
Fang Yao, Peking University
Xinyu Zhang, University of Chinese Academy of Sciences
Liping Zhu, Renmin University of China
Guohua Zou, Capital Normal University

2025-07-13 08:30-10:10

Invited Session IS009: Inference for High Dimensional Data

- Room: Xiangyun Hall
Chair: Binyan Jiang, The Hong Kong Polytechnic University
Organizer: Ming-Yen Cheng, Hong Kong Baptist University
- 08:30 Normal-Reference Tests for High-Dimensional Hypothesis Testing
JinTing Zhang, National University of Singapore
- 08:55 SOFARI-R: High-Dimensional Manifold-Based Inference for Latent Responses
Zemin Zheng, University of Science and Technology of China
- 09:20 Local Information for Global Network Estimation in Latent Space Models
Lijia Wang, City University of Hong Kong

- 09:45 Inference for possibly misspecified generalized linear models with non-polynomial dimensional nuisance parameters
Haofeng Wang, Department of Mathematics
Hong Kong Baptist University

Invited Session IS017: Statistical and Federated Learning for Survival Analysis

- Room: Ziguang Hall A
Chair: Kai Kang, Sun Yat-sen University
Organizer: Xinyuan Song, The Chinese University of Hong Kong
- 08:30 Analysis of Competing Risks Data with Censored Covariates
Liming Xiang, Nanyang Technological University
- 08:55 SurGAN: A Generative Adversarial Network Model for Tabular Survival Data
Hong Wang, Central South University
- 09:20 Variable Selection in Partially Functional Accelerated Failure Time Model
Chunjie Wang, Changchun University of Technology
- 09:45 Estimation and Variable Selection for Interval-censored Failure Time Data with Random Change Point and Application to Breast Cancer Study
Mingyue Du, Jilin University

Invited Session IS025: The Statistician's Role in Generative AI Security: Theory, Algorithms, and Open Challenges

- Room: Ziguang Hall B
Chair: Jinhan Xie, Yunnan University
Organizer: Hongtu Zhu, The University of North Carolina at Chapel Hill
- 08:30 A Statistical Hypothesis Testing Framework for Data Misappropriation Detection in Large Language Models
Linjun Zhang, Rutgers University
- 08:55 Denoising Diffusions with Optimal Transport: Localization, Curvature, and Multi-Scale Complexity
Tengyuan Liang, University of Chicago
- 09:20 Do Large Language Models Need Statistical Foundations?
Weijie Su, University of Pennsylvania

Invited Session IS033: Recent Developments of Bayesian Methods for Modern Biomedical Data Analysis

- Room: Ziguang Hall C
Chair: Guanyu Hu, University of Texas Health Science Center at Houston
Organizer: Guanyu Hu, University of Texas Health Science Center at Houston, Meng Li, Rice University



- 08:30 A Reinforcement Learning Framework for Learning Optimal Oxygen Treatments in Patients with Acute Respiratory Distress Syndrome
Yanxun Xu, The Johns Hopkins University
- 08:55 Radial Neighbors for Provably Accurate Scalable Approximations of Gaussian Processes
Cheng Li, National University of Singapore
- 09:20 BACT: nonparametric Bayesian cell typing for single-cell spatial transcriptomics data
Xiangyu Luo, Renmin University of China
- 09:45 Variational bagging: a robust approach for Bayesian uncertainty quantification
Lizhen Li, The University of Maryland

Invited Session IS041: Model Averaging and Related Topics

- Room: Dongfang Hall A
Chair: Xinyu Zhang, University of Chinese Academy of Sciences
Organizer: Xinyu Zhang, University of Chinese Academy of Sciences
- 08:30 PEARL: Performance-enhanced Aggregated Representation Learning
Wenhui Li, Academy of Mathematics and Systems Science
- 08:55 Optimal Multi-Machine Learning Assisted Semi-Supervised Inference
Baihua He, The University of Science and Technology of China
- 09:20 Handling model uncertainty in the EM algorithm by model averaging
Guangyuan Cui, City University of Hong Kong
- 09:45 Prediction-Powered Prediction
Fuzhi Xu, University of Science and Technology of China

Invited Session IS049: Changepoint detection, risk control, and clustering under social networks

- Room: Dongfang Hall B
Chair: Yehua Li, University of California, Riverside
Organizer: Catherine Liu, The Hong Kong Polytechnic University
- 08:30 Tracing the impacts of Mount Pinatubo eruption on regional climate using spatially-varying changepoint detection
Bo Li, Washington University in St. Louis
- 08:50 Domain adaptation with risk control
Sai Li, Renmin University of China
- 09:10 CeViT: Copula-Enhanced Vision Transformer in multi-task learning with bi-group image covariates
Catherine Liu, The Hong Kong Polytechnic University

- 09:30 Survival Mixed Membership Block model
Yingying Wei, The Chinese University of Hong Kong
- 09:50 Discussant
Yehua Li, University of California, Riverside

Invited Session IS057: Recent Advances in Causal Inference

- Room: Baiyuan Hall
Chair: Lin Liu, Shanghai Jiao Tong University
Organizer: Kean Ming Tan, University of Michigan
- 08:30 Causal attribution with confidence
Ping Zhang, Peking University
- 08:55 Connections as treatment: Causal inference with edge interventions in networks
Shuli Chen, Sun Yat-sen University
- 09:20 Instrumental variable analysis with multivariate point process treatments
Shizhe Chen, University of California, Davis
- 09:45 Covariate adjustment in randomized experiments motivated by HOIF
Lin Liu, Shanghai Jiao Tong University

Invited Session IS064: Statistical and Machine Learning Advances

- Room: Ziguang Hall E
Chair: Shuyan Chen, University of Science and Technology of China
Organizer: Xueqin Wang, University of Science and Technology of China
- 08:30 Bayesian connectivity-to-shape model in preclinical Alzheimer's disease
Yize Zhao, Yale University
- 08:55 Enhanced Fused Sufficient Representation Learning for Neuroimaging Data
Wenliang Pan, Chinese Academy of Sciences
- 09:20 Asymptotic Uncertainty of False Discovery Proportion
Yuan Jiang, Oregon State University
- 09:45 Developing and Evaluating Lung Cancer Risk Prediction Models
Fenghai Duan, Brown University School of Public Health

Invited Session IS072: Recent Advancement in Causal Inference

- Room: Huaide Hall
Chair: Xiaozhu Zhang, University of Washington
Organizer: Zijian Guo, Rutgers University, Matteo Bonvini Rutgers University
- 08:30 Learning control variables and instruments for causal analysis in observational data
Nicolas Apfel, University of Innsbruck



08:55 Bias reduction in g-computation for covariate adjustment in randomized clinical trials

Xin Zhang, Pfizer Inc.

09:20 Average Direct and Indirect Causal Effects of Persuasion

Xiaowu Dai, University of California, Los Angeles

Contributed Session CS030: Advanced Learning Methods for Dynamic Treatment and Disease Progression

Room: Xingde Hall

Chair: Yaqing Xu, Shanghai Jiao Tong University

08:30 基于结构方程模型的矩阵张量分解方法在脑电与量表数据融合中的应用

Simin Du, Southern University of Science and Technology

08:50 Regression-based methods for estimating the optimal treatment regimes with unmeasured confounding

Weijie Liang, Peking University

09:10 Disease progression trajectory curves to estimate saved time in Alzheimer's disease trials

Guogen Shan, University of Florida

09:30 Bayesian Learning of Optimal Real-Time Dynamic Treatment Regimes

Haiyan Zhu, East China Normal University

09:50 AdaBoost-rDNN: A boosting ensemble of deep neural networks with regularization for disease outcomes

Yaqing Xu, Shanghai Jiao Tong University School of Medicine

Invited Session IS080: Network Structure & Model: New Insights and Applications

Room: Zhongde Hall

Chair: Binghui Liu, Northeast Normal University

Organizer: Binghui Liu, Northeast Normal University

08:30 Network Varying Coefficient Model

Wei Lan, Southwestern University of Finance and Economics

08:55 A Large-scale Citation Network with Applications in Academic Literature Recommendation

Rui Pan, Central University of Finance and Economics

09:20 Two-way Node Popularity Model for Directed and Bipartite Networks

Jiangzhou Wang, Shenzhen University

09:45 Inference in Semiparametric Formation Models for Directed Networks

Lianqiang Qu, Central China Normal University

Contributed Session CS024: Advances in Statistical Modeling and Inference for Complex Data Structures

Room: Meeting Room B

Chair: Jingcheng He, Zhejiang University

08:30 Estimation for partially linear additive spatial autoregressive model with covariate measurement errors and missing response variables under restricted conditions

Xiaoqian Zheng, Anhui University

08:50 A unified approach to Gaussian process modeling with qualitative and quantitative factors

Linsui Deng, The Chinese University of Hong Kong, Shenzhen

09:10 An Online Change Point Detection Algorithm Based on Local Outlier Factor Weighted Mechanism

Renjie Chu, Zhejiang University of Finance and Economics

09:30 The Joint Law of the Terminal Value, Running Maximum and Running Minimum of a Scalar Diffusion Process with Time-Inhomogeneous Drift

Jixin Wang, Imperial College London

09:50 Adaptive Closed Testing with E-values for Simultaneous False Discovery Proportion Control

Jingcheng He, Zhejiang University

Contributed Session CS025: Modern Statistical Learning for High-Dimensional and Structured Data

Room: Zhicheng Room

Chair: Zhoufu Ye, Zhejiang University

08:30 Multi-source Targeted Learning by High-dimensional Empirical Likelihood

Haoxiang Zhan, Peking University

08:50 Truncated fusion learning on supervised clustering and its fast stagewise algorithm

Letian Li, usc

09:10 Feature Selection for P300 Detection Improvement

Bing Tian, Xiamen University

09:30 Pursuing homogeneity and sparsity in simultaneous quantile regression

Zhen Zeng, Nanjing University of Finance and Economics

09:50 On non-redundant and linear operator-based nonlinear dimension reduction

Zhoufu Ye, Zhejiang University

Contributed Session CS026: Digital Transformation and Financial Econometrics: Methods and Applications

Room: Wende Hall

Chair: Xin Lan, Northwest A & F University



- 08:30 互联网赋能消费升级的异质性效应研究 ——基于中国家庭追踪调查数据的经验证据
Yaning Xue, Jilin University of Finance and Economics
- 08:50 人工智能赋能数实融合的机理与路径研究 ——基于多重中介效应模型的实证分析
Liying Yao, Anhui University of Finance and Economics
- 09:10 GAS-Adam 模型及其在股指波动率和 VaR 预测中的应用
Yinfang Shen, Zhejiang University of Finance and Economics
- 09:30 中国上市公司融资约束的测度研究
Jingping Li, Renmin University of China
- 09:50 基于动态藤 Copula CoES 模型的人民币离岸市场与股票市场之间的风险传染机制研究
Xin Lan, Northwest A & F University

Contributed Session CS027: Modern Statistical Methods for High-Dimensional and Networked Data Analysis

Room: Ziguang Hall D

Chair: Qian Hui, Fudan University

- 08:30 A General U-Statistic Framework for High-Dimensional Multiple Change-Point Analysis
Bin Liu, Fudan University
- 08:50 Estimation of high-dimensional dynamic factor models based on two-way information of auto-covariance
Zhigen Gao, Northeast Normal University
- 09:10 Stacking factorizing partitioned expressions in hybrid Bayesian network models
Peng Lin, Capital university of economics and business
- 09:30 The interplay between cryptocurrencies and phishing crimes
Yuanyuan Zhang, American University of Sharjah
- 09:50 Systemic Risk Management via Maximum Independent Set in Extremal Dependence Networks
Qian Hui, Fudan University

Contributed Session CS028: Modern Statistical Methods for High-Dimensional Biomedical Data

Room: Meeting Room C

Chair: Yaqi Cao, Minzu University of China

- 08:30 Integrated Bayesian non-parametric spatial modeling for cross-sample identification of spatially variable genes
Meng Zhou, Shanghai University of Finance and Economics
- 08:55 High-Dimensional Generalized Varying Coefficient Models with Longitudinal Covariates
Lizhe Sun, Shanxi University of Finance and Economics

- 09:20 Covariate-adjusted win statistics in randomized clinical trials with ordinal outcomes
Zhiqiang Cao, Shenzhen Technology University
- 09:45 基于新型重分类指标评估新型预测因子对统计模型预测性能的提升效果
Yaqi Cao, Minzu University of China

Contributed Session CS029: Advances in Spatio-Temporal and Financial Forecasting

Room: Meeting Room D

Chair: Juan Liu, Hunan Institute of Technology

- 08:30 Urban Traffic Flow Forecasting Based on Multi-Graph Fusion and Spatial-Temporal Attention Mechanism
Bingbing Tang, Guizhou University of Finance and Economics
- 08:50 Enhancing Temporal Knowledge Graph Prediction through Multi-task Transformer and Structured Count Representation
Xiangni Tian, Yunnan University
- 09:10 REdeepAR: 一种用于股票预测的集成方法
Tianqi Zheng, Minzu University of China
- 09:30 基于时变参数向量自回归 (TVP-VAR) 与深度学习模型的汇率溢出效应的动态预测
Juan Liu, Hunan Institute of Technology
- 09:50 多源数据驱动下基于 TCN-LSTM-ABKDE 模型的黄金期货价格区间预测研究
Chen Wei, Lanzhou University of Finance and Economics

Invited Session IS095: 地球物理学中的前沿统计方法

Room: Xinde Hall

Chair: Yumou Qiu, Peking University

Organizer: Songxi Chen, Department of Statistics and Data Science, Tsinghua University

- 08:30 Online stochastic generators using Slepian bases for regional bivariate wind speed ensembles from ERA5
Yan Song, King Abdullah University of Science and Technology
- 08:55 高维地学数据的聚类与信号恢复算法
Wu Su, Peking University
- 09:20 Effects of Spatial Dependence and Non-Gaussianity on Errors-in-Variables Regression Models
Jingkun Qiu, Peking University
- 09:45 融合卫星遥感和现场观测的海洋三维温度场构建
Furong Li, Ocean University of China

2025-07-13 10:30-12:10



Invited Session IS010: Large Language Model and Deep Learning

Room: Xiangyun Hall

Chair: Wenguang Sun, Zhejiang University

Organizer: Wenguang Sun, Zhejiang University

- 10:30 Trustworthy assessment of heterogeneous treatment effect estimator via analysis of relative error
Zijun Gao, University of Southern California
- 10:55 Semiparametric M-estimation with Overparameterized Neural Networks
Fang Yao, Peking University
- 11:20 LAMBDA: A Large Model Based Data Agent
Yancheng Yuan, The Hong Kong Polytechnic University
- 11:45 $p=N^2$ Assures Optimality
Shurong Zheng, Northeast Normal University

Invited Session IS018: High-dimensional Data Analysis: Estimation and Inference

Room: Ziguang Hall A

Chair: Xuejun Jiang, South University of Science and Technology of China

Organizer: Xuejun Jiang, South University of Science and Technology of China

- 10:30 Semiparametric single-index structural equation model
Fei Chen, Yunnan Normal University
- 10:55 Adaptive adequacy testing of high-dimensional factor-augmented regression model
Xu Guo, Beijing Normal University
- 11:20 A Robust Covariate-Balancing Method for Estimating Individualized Treatment with Censored Data
Wensheng Zhu, Yunnan University
- 11:45 Homogeneity Pursuit in Ranking Inferences based on Pairwise Comparison Data
Yuxin Tao, Southern University of Science and Technology

Invited Session IS026: Generalizability and distribution shift

Room: Ziguang Hall B

Chair: Xinwei Shen, ETH Zurich

Organizer: Xinwei Shen, ETH Zurich

- 10:30 Model-assisted and Knowledge-guided Transfer Regression for the Underrepresented Population
Doudou Zhou, National University of Singapore
- 10:55 New Evidence for the Predictive Role of Covariate Shift in Treatment Effect Generalization
Ying Jin, University of Pennsylvania
- 11:20 Distributionally robust risk evaluation with an isotonic constraint
Yu Gui, University of Chicago

11:45

A New and Efficient Debiased Estimation of General Treatment Models by Balanced Neural Networks Weighting
Wei Huang, University of Melbourne

Invited Session IS034: Advanced Computational Methods for Omics Data Analysis and Disease Understanding

Room: Ziguang Hall C

Chair: Pingzhao Hu, Western University

Organizer: Pingzhao Hu, Western University

- 10:30 Dependency-aware deep generative models for multitasking analysis of spatial omics data
Zhi Wei, New Jersey Institute of Technology
- 10:50 Error-controlled interaction discovery in generic machine learning models
Yang Lu, University of Waterloo
- 11:10 Sparse Learning for Assessing the Association Between Gut Microbiome and Parkinson's Disease
Longhai Li, University of Saskatchewan
- 11:30 A new phylogeny-aware microbiome data generator
Juxin Liu, University of Saskatchewan
- 11:50 Representation Learning for Drug-Target Interaction Prediction
Pingzhao Hu, Western University

Invited Session IS073: Innovative Statistical Learning Approaches in Data Science

Room: Dongfang Hall A

Chair: Xiangnan Feng, Fudan University

Organizer: Xinyuan Song, The Chinese University of Hong Kong

- 10:30 Deep nonparametric approaches to domain generalization
Yuanyuan Lin, The Chinese University of Hong Kong
- 10:55 Word-Level Maximum Mean Discrepancy Regularization for Word Embedding
Ben Dai, The Chinese University of Hong Kong
- 11:20 Sparse representation learning for scalable single-cell RNA sequencing data analysis
Zhixiang Lin, The Chinese University of Hong Kong
- 11:45 Interpretable Deep Regression Models with Interval-Censored Failure Time Data
Shuwei Li, Guangzhou University

**Invited Session IS050: High dimensional statistics and tensor analysis**

Room: Dongfang Hall B

Chair: Xingdong Feng, Shanghai University of Finance and Economics

Organizer: Xingdong Feng, Shanghai University of Finance and Economics

- 10:30 Calibrating weights for improved estimation in factor models for high-dimensional time series
Xinghao Qiao, The University of Hong Kong
- 10:55 High dimensional inference for extreme value indices
LiuJun Chen, University of Science and Technology of China
- 11:20 Tensor additive quantile regression
WenQi Lu, Nankai University
- 11:45 CP factor models of high dimensional tensor time series
Long Yu, Shanghai University of Finance and Economics

Invited Session IS058: Causal discovery and causal inference

Room: Baiyuan Hall

Chair: Xueli Wang, Beijing Technology and Business University

Organizer: Xueli Wang, Beijing Technology and Business University

- 10:30 Identification of Subgroup Causal Effects in Randomized Trials under Nonignorable Missingness of Covariates and Outcome Variables Simultaneously
Xueli Wang, Beijing Technology and Business University
- 10:50 On the Representation of Pairwise Causal Background Knowledge and its Applications in Causal Inference
Yangbo He, Peking University
- 11:10 MR-MAGIC: Robust Causal Inference Using Many Weak Genetic Interactions
Baoluo Sun, National University of Singapore
- 11:30 Local Identifying Causal Relations in the Presence of Latent Variables
Feng Xie, Beijing Technology and Business University
- 11:50 Some rate optimal adaptive estimators and the necessary and sufficient conditions for phase transition in structured sparsity regime
Jianxin Yin, Renmin University of China

Invited Session IS065: Statistical modeling and inference for complex time series data

Room: Ziguang Hall E

Chair: Qianqian Zhu, Shanghai University of Finance and Economics

Organizer: Qianqian Zhu, Shanghai University of Finance and Economics

- 10:30 Model Diagnostic Checking for the Autoregressive Optimal Transport Model
Feiyu Jiang, Fudan University
- 10:55 A Two-Step Estimating Approach for Heavy-Tailed Ar Models with Non-Zero Median Garch-Type Noises
Rui She, Southwestern University of Finance and Economics
- 11:20 Linear Functional Quantile AR process
Songhua Tan, University of Science and Technology of China
- 11:45 When asynchronicity meets price staleness: Robust estimation of high-frequency covariance
Haibin Zhu, Jinan University

Invited Session IS088: Data Privacy Protection and High Dimensional Data Analysis

Room: Huaide Hall

Chair: Jia Gu, Zhejiang University

Organizer: Jia Gu, Zhejiang University

- 10:30 Privacy protection and statistical efficiency trade-off for federated learning
Haobo Qi, Beijing Normal University
- 10:55 Covariance estimation for high-dimensional tensor data
HaoXuan Sun, Peking University
- 11:20 High Dimensional Multigrid Ensemble Kalman Filter with Optimal Selection
Shouxia Wang, Shanghai University of Finance and Economics
- 11:45 Privacy-Protected Spatial Autoregressive Models with Applications
Shuyuan Wu, Shanghai University of Finance and Economics

Contributed Session CS036: Emerging Frontiers in Digital Economy and Regional Development

Room: Xingde Hall

Chair: Chaofeng Yuan, Heilongjiang University

- 10:30 中国省域新质生产力的空间关联网络特征与驱动因素探究
Jitong He, Inner Mongolia University of Finance and Economics
- 10:50 数字经济与共同富裕：促增长还是调分配
Jiaoyang Jiang, JiLin University of Finance and Economics



- 11:10 加密货币系统拥堵会影响用户交易行为吗?基于比特币
手续费替换策略的视角
Lulu Qiu, Hefei University of Technology
- 11:30 长三角地区数字经济产业链研究——基于投入产出表
Jiale Lin, Jilin University of Finance and
Economics
- 11:50 马尔可夫转移矩阵因子模型及其应用
Chaofeng Yuan, Heilongjiang University

Invited Session IS081: Data Science in Statistical Seismology

- Room: Zhongde Hall
Chair: Jiancang Zhuang, The Institute of Statistical
Mathematics, Japan
Organizer: Jiancang Zhuang, The Institute of Statistical
Mathematics, Japan
- 10:30 On the Development of the ETAS Model in
Seismicity Modeling: Achievements and
Challenges
Jiancang Zhuang, The Institute of Statistical
Mathematics, Japan
- 10:55 Application of machine learning for earthquake
early warning and aftershock prediction.
Stephen Wu, The Institute of Statistical
Mathematics
- 11:20 Bayesian analysis of temporal variations in
seismic parameter probability model: Insights
into the seismic cycle
Elisa Varini, National Research Council of Italy,
Institute for Applied Mathematics and
Information Technologies (CNR-IMATI)
- 11:45 Investigating aseismic drivers of swarm-like
seismicity through nonstationary ETAS
modeling: Insights from the 4-year Mt. Pollino
sequence
Giuseppe Petrillo, Nanyang Technological
University

Contributed Session CS002: Advances in Generative Modeling and Bayesian Computation

- Room: Meeting Room B
Chair: Shitao Fan, University of Maryland
- 10:30 Likelihood Matching for Diffusion Models
Lei Qian, Peking University
- 10:50 Generalization Bounds of Gradient Descent in
Over-parameterized Vision Transformers
Xuewei Cheng, Hunan Normal University
- 11:10 Functional Gradient Flows for Constrained
Sampling
Shiyue Zhang, Peking University
- 11:30 Fine-tuning diffusion processes with function
approximations: a PDE learning approach
Wenlong Mou, University of Toronto

- 11:50 Amortized Structured Variational Inference
Shitao Fan, University of Maryland

Contributed Session CS031: Advances in Graph-Based Learning and Network Analysis

- Room: Zhicheng Room
Chair: Yuchen Zhu, Northwestern Polytechnical University
- 10:30 Identification of influential nodes in complex
networks based on graph autoencoder
Yukai Zhou, Northwestern Polytechnical
University
- 10:55 A Wasserstein distance-based spectral clustering
method for transaction data analysis
Yingqiu Zhu, University of International Business
and Economics
- 11:20 Network Perturbation Aggregation in Graphon
Estimation
Huimin Cheng, Boston University
- 11:45 HALO: Hardness-Aware Bilevel-Inspired
Contrastive Graph Clustering
Yuchen Zhu, Northwestern Polytechnical
University

Contributed Session CS032: Advances in Transfer Learning and Multi-Task Learning

- Room: Wende Hall
Chair: Yang Sui, Shanghai University of Finance and Economics
- 10:30 Automatic Transfer Learning for High-
Dimensional Linear Regression
Xinhao Qu, University of California, Riverside
- 10:55 Generative and Explainable Data Augmentation
for Single-Domain Generalization
CS033Yuting Lan, Shanghai University of
Finance and Economics
- 11:20 Knowledge Transfer for Sparse Partial Linear
Models with Privacy Guarantee: Estimation,
Inference and Simultaneous Testing
Zhengyu Zhu, East China Normal University
- 11:45 Multi-task Learning for Heterogeneous Data via
Integrating Shared and Task-Specific Encodings
Yang Sui, Shanghai University of Finance and
Economics

Contributed Session CS033: Methodological Advances in Environmental and Policy Evaluation

- Room: Ziguang Hall D
Chair: Wenjing Li, Inner Mongolia University of Finance and
Economics
- 10:30 基于光滑近似的异质性模型算法及其应用
Wu Wang, Renmin University of China
- 10:50 减污降碳视角下环境协同治理的健康效应
Yuankun Luo, Anhui University of Finance and
Economics



- 11:10 “四好农村路” 试点政策与草原生态效率的因果识别
Wenjing Li, Inner Mongolia University of Finance and Economics
- 11:30 人口普查漏登问题估计研究
Li Qi, Chongqing Technology and Business University
- 11:50 环境政策不确定性对能源企业投资的影响研究
Jiangtao Zhao, Jilin University of Finance and Economics

Contributed Session CS034: Advanced Statistical Learning for Clinical Decision Making and Brain Disorders

Room: Meeting Room C

Chair: Jiayi Liu, Hunan Normal University

- 10:30 Semi-supervised D-Learning for Optimal Individual Treatment Regimes
Xintong Li, East China Normal University
- 10:50 Revisiting the Phenolog Prediction Problem
Hongyi Sun, Tsinghua University
- 11:10 Binary Regression and Classification with Covariates in Metric Spaces
Yinan Lin, National Center for Applied Mathematics in Chongqing
- 11:30 Additive Deep Semiparametric Modeling for Case I Interval-Censored Data with Time-Dependent and Time-Independent Covariates
Jiaqi Zhao, Wuhan University
- 11:50 Associations of brain functional network with schizophrenia and bipolar disorder: A cross-disease bi-directional two-sample mendelian randomization study
Jiayi Liu, Hunan Normal University

Contributed Session CS035: Cutting-Edge Methods for Causal and High-Dimensional Biomedical Analysis

Room: Meeting Room D

Chair: Shucong Zhang, University of International Business and Economics

- 10:30 Individualized Dynamic Mediation Analysis Using Latent Factor Models
Yijiao Zhang, Fudan University
- 10:50 Dysfunction in the hierarchy of morphometric similarity network in Alzheimer's disease and its correlation with cognitive performance and gene expression profiles
Chuchu Zheng, Shanxi Medical University
- 11:10 Causal Inference for a Hidden Treatment
Ying Zhou, University of Connecticut
- 11:30 A Debiased High-dimensional Regression Calibration Method for Errors-in-variables Log-contrast Models
Huali Zhao, Tsinghua University

- 11:50 SVEM: Stochastic Variational EM Algorithm for High Dimensional Multinomial Data
Shucong Zhang, University of International Business and Economics

Invited Session IS096: Asymptotic Theory for Dependent Random Variables

Room: Xinde Hall

Chair: Zhuosong Zhang, Southern University of Science and Technology

Organizer: Zhuosong Zhang, Southern University of Science and Technology

- 10:30 Self-normalized Cramer type moderate deviations for martingales and applications
Xiequan Fan, Northeastern University at Qinhuangdao
- 10:55 Conditional central limit theorems for exponential random graphs
Xiaolin Wang, School of Mathematical Sciences, Zhejiang University
- 11:20 Cramer type moderate deviations of nonparameter estimations in white noise model
Hui Jiang, Nanjing University of Aeronautics and Astronautics
- 11:45 Normal approximation for exponential random graphs
Songhao Liu, Southern University of Science and Technology

2025-07-13 13:30-15:10

Invited Session IS011: Recent Advances of Adaptive Designs

Room: Xiangyun Hall

Chair: Feifang Hu, George Washington University

Organizer: Feifang Hu, George Washington University

- 13:30 The Impact of Unobserved covariates on Covariate Adaptive Randomized Experiments
Yang Liu, Institute of Statistics and Big Data, Renmin University of China
- 13:55 Sequential Monitoring of Covariate Adaptive Randomized Clinical Trials with Nonparametric Approaches
HongJian Zhu, Systimmune Inc.
- 14:20 Statistical Inference with Mixed-Effect Model for Covariate-Adaptive Randomized Experiments
Lucy Xia, The Hong Kong University of Science and Technology
- 14:45 Addressing model uncertainty in treatment effect estimation under covariate-adaptive randomization: a cross-validated model averaging approach
Fuyi Tu, Chongqing University of Posts and Telecommunications



Invited Session IS019: Machine Learning and AI Methods for Single-Cell and Spatial Genomics

Room: Ziguang Hall A

Chair: Jin Liu, The Chinese University of Hong Kong (Shenzhen)

Organizer: Jin Liu, The Chinese University of Hong Kong (Shenzhen)

- 13:30 AI4Science and Science4AI
Luonan Chen, University of Chinese Academy of Sciences
- 13:55 Toward Gene Language Model via Multi-omics Data
Xiaobo Sun, Zhongnan University of Economics and Law
- 14:20 A unified framework for identification of cell type-specific spatially variable genes in spatial transcriptomic studies
Can Yang, Hong Kong University of Science and Technology
- 14:45 Towards AI Virtual Cells through Dynamical Generative Models
Peijie Zhou, Peking University

Invited Session IS027: Advances in Modern Statistical Learning and Inference

Room: Ziguang Hall B

Chair: Yanlin Tang, East China Normal University

Organizer: Huixia Judy Wang

- 13:30 Statistical Inference for Differentially Private Stochastic Gradient Descent
Zhanrui Cai, The University of Hong Kong
- 13:55 Data-Utilization at the Core: A Unified Conformalized Multiple Testing Framework
Haojie Ren, Shanghai Jiao Tong University
- 14:20 Boosting In-Context Learning in LLMs Through the Lens of Classical Supervised Learning
Zhengling Qi, George Washington University

Invited Session IS035: New Developments of Statistical Learning for the Analysis of Complex Biomedical Data

Room: Ziguang Hall C

Chair: Lu Wang, University of Michigan

Organizer: Peter Song, University of Michigan

- 13:30 OPERA: An Interpretable Algorithm for Patient Stratification based on Partially Ordered Risk Factors
Menggang Yu, University of Michigan
- 13:55 BELIEF in Dependence: Leveraging Atomic Linearity in Data Bits for Rethinking Generalized Linear Models
Kai Zhang, UNC Chapel Hill
- 14:20 Scalable Manifold Learning for Complex Imaging Data Analysis
Jian Kang, University of Michigan

- 14:45 A foundation model for generalizable cancer diagnosis and survival prediction from histopathological images
Zhangsheng Yu, Shanghai Jiao Tong University

Invited Session IS043: High Dimensional Statistics

Room: Dongfang Hall A

Chair: Jialiang Li, National University of Singapore

Organizer: Ming-Yen Cheng, Hong Kong Baptist University

- 13:30 Adaptive Testing and Estimation for High-Dimensional Covariance Change-Points
Xiaoyi Wang, Beijing Normal University at Zhuhai
- 13:55 Target Inference for High-Dimensional Quantile Regression
Jiancheng Jiang, Department of Mathematics and Statistics & School of Data Science, University of North Carolina at Charlotte
- 14:20 False Discovery Rate Control Via Bi-Gaussian Mirrors
Binyan Jiang, The Hong Kong Polytechnic University
- 14:45 Functional data analysis via neural networks
Jun Fan, Hong Kong Baptist University

Invited Session IS069: Recent Advancements in Uncertainty Quantification

Room: Dongfang Hall B

Chair: Molei Liu, Peking University

Organizer: Zijian Guo, Rutgers University, Molei Liu, Peking University

- 13:30 TBD
Alexander Giessing, National University of Singapore
- 13:55 A Resampling-based Mendelian Randomization Framework for Robust Proteome-Wide Causal Inference in Alzheimer's Disease
Mengchu Zheng, Rutgers University
- 14:20 Inference for High Dimensional Predictive Regressions
Ziwei Mei, The Chinese University of Hong Kong
- 14:45 Quantifying uncertainty and stability among highly correlated predictors: a subspace perspective
Xiaozhu Zhang, University of Washington

Invited Session IS059: Statistical Inference Meets Decision Making

Room: Baiyuan Hall

Chair: Wenxin Zhou, University of Illinois Chicago

Organizer: Wenxin Zhou, University of Illinois Chicago



- 13:30 Conformal Prediction Beyond the Horizon:
Distribution-Free Inference for Policy Evaluation
Yingying Zhang, East China Normal University
- 13:55 Robust High-dimensional Inference for Causal
Effects Under Unmeasured Confounding and
Invalid Instruments with an Application to
Multivariable Mendelian Randomization Analysis
Yunan Wu, Yau Mathematical Sciences Center,
Tsinghua University
- 14:20 Online policy learning and inference by matrix
completion
Dong Xia, Hong Kong University of Science and
Technology
- 14:45 Online Estimation and Inference for Robust
Policy Evaluation in Reinforcement Learning
Yichen Zhang, Purdue University

Invited Session IS066: The Interface of Statistics, Optimization, and Artificial Intelligence

Room: Ziguang Hall E

Chair: Xingdong Feng, Shanghai University of Finance and Economics

Organizer: Xingdong Feng, Shanghai University of Finance and Economics

- 13:30 WGFormer: A Wasserstein Gradient Flow-Driven
SE(3)-Transformer for Deep Molecular Modeling
Hongteng Xu, Renmin University of China
- 13:55 FZOO: Fast Zeroth-Order Optimizer for Fine-
Tuning Large Language Models towards Adam-
Scale Speed
Haishan Ye, Xi'an Jiaotong University
- 14:20 Minimax Rates for Distribution Regression
Under Manifold Assumption
Rong Tang, The Hong Kong University of
Science and Technology
- 14:45 The Sparse-Plus-Low-Rank Quasi-Newton
Method for Entropic-Regularized Optimal
Transport
Yixuan Qiu, Shanghai University of Finance and
Economics

Invited Session IS075: Complex Data Analysis with Applications

Room: Huaide Hall

Chair: Xinbing Kong, Nanjing Audit University

Organizer: Xinbing Kong, Nanjing Audit University

- 13:30 Community Detection in Weighted Networks via
Expectation Profile-Pseudo Likelihood
Maximization
Binghui Liu, Northeast Normal University
- 13:55 A Novel Statistic Guided by Clinical Experience
for Assessing the Progression of Lung Nodules
Jing Zhou, Renmin University of China

- 14:20 Statistical Methods for Correcting Measurement
Errors in High-dimensional Microbiome
Compositional Data
Xiang Zhan, Southeast University
- 14:45 Quantile Regression through Structured
Information Transfer
Yifan Jiang, The Pennsylvania State University

Contributed Session CS043: Advances in Robust and Interpretable Causal Inference with Complex Data

Room: Xingde Hall

Chair: Jiajing Xue, Xiamen University

- 13:30 Covariate-Elaborated Robust Partial Information
Transfer with Conditional Spike-and-Slab Prior
Ruqian Zhang, Fudan University
- 13:50 Generalized Estimating Equations in
Longitudinal Data Analysis following Covariate-
adaptive Randomization
Ruichen Fu, Renmin University of China
- 14:10 Improving Design and Normalization of
Multiplex Proteomics Study
Huaying Fang, Capital Normal University
- 14:30 Flexible and Interpretable Estimation of
Heterogeneous Treatment Effects in Censored
Data
Xiaoqi Jiao, East China Normal University
- 14:50 Joint Modeling of Mixed Outcomes Using a
Rank-Based Sparse Neural Network
Jiajing Xue, Xiamen University

Invited Session IS082: Advancing Learning Techniques and Diagnostic Methods for Analyzing Complex Survival Data

Room: Zhongde Hall

Chair: Yu Cheng, University of Pittsburgh

Organizer: Yu Cheng, University of Pittsburgh

- 13:30 Neural network for interval-censored data with
application to Alzheimer's disease
Tao Sun, Renmin University of China
- 13:55 Statistical methods for transfer learning in
survival analysis
Yu Gu, University of Hong Kong
- 14:20 Evaluating discrimination accuracy of prognostic
models with competing risk outcomes
Yang Qu, Central South University
- 14:45 Regression Trees and Ensembles for Cumulative
Incidence Functions
Youngjoo Cho, Konkuk University

Contributed Session CS037: Advances in Deep Learning Architectures and Applications

Room: Meeting Room B

Chair: Qiwei Han, Zhejiang Gongshang University



- 13:30 3D CT Image Segmentation Using the U-TES Framework
Jidong Tian, Sun Yat-sen University
- 13:55 聚焦损失函数的深度聚类方法研究与展望
Xiaobo Huang, Guizhou University of Finance and Economics
- 14:20 A Multi-Modal Bearing Fault Diagnosis Model Based on Multi-Scale Mamba Gating and Dynamic Low-Rank Multi-Head Cross Attention
Guangpeng Sun, North Minzu University
- 14:45 Double-Penalty Supervised AutoEncoder and Its Extension in Mixed-Frequency Processing: An Optimal Dimensional Reducer for Stock Returns Forecasting?
Qiwei Han, Zhejiang Gongshang University

Contributed Session CS038: Recent Advances in High-Dimensional Robust Regression

- Room: Zhicheng Room
Chair: Yan Zhong, East China Normal University
- 13:30 Efficient distributed estimation for expectile regression in increasing dimensions
Xiaoyan Li, Chongqing Technology and Business University
- 13:50 Estimation and inference in quantile regression for high-dimensional partially linear models
Wangcheng Li, Beijing Normal University
- 14:10 Communication-Efficient and Distributed-Oracle Estimation for High-Dimensional Quantile Regression
Yifan Gu, Renmin University of China
- 14:30 线性极值分位数回归的半监督学习
Rong Jiang, Shanghai University of International Business and Economics
- 14:50 Reduced-rank clustered coefficient regression for addressing multicollinearity in heterogeneous coefficient estimation
Yan Zhong, East China Normal University

Contributed Session CS039: AI-Driven Solutions for Economic and Environmental Challenges

- Room: Wende Hall
Chair: Ruoxu Tan, Tongji University
- 13:30 人工智能与碳排放边际减排成本——基于中国企业的微观证据
Chan Chen, Anhui University of Finance and Economics
- 13:55 基于多元函数型聚类及深度强化学习的最优资产配置策略
Zhe He, Lanzhou University of Finance and Economics

- 14:20 基于 NBEATSx 改进模型与多源时空数据融合的九寨沟客流量预测
Xinyuan Nie, JiLin University of Finance and Economics
- 14:45 Supervised Manifold Learning for Functional Data
Ruoxu Tan, Tongji University

Contributed Session CS040: Advances in Statistical Learning for Economic and Financial Modeling

- Room: Ziguang Hall D
Chair: Chaoxia Yuan, Shanghai Maritime University
- 13:30 Multimodal Data Fusion for Inflation Forecasting: A Sparse Cooperative Learning Approach with Macroeconomic and News Data
Xiaoying Wang, Xiamen University
- 13:50 离散观测下高斯过程驱动的 Vasicek 模型的参数估计
Xiaopeng Chen, Shantou University
- 14:10 函数型时间序列的变平面分析及其可持续投资中的应用
Baolin Chen, Capital University of Economics and Business
- 14:30 周期非对称幂变换 GARCH 模型的基于数据驱动的加权分位数回归估计
Peiqi Jia, Shanxi University
- 14:50 几何模型平均
Chaoxia Yuan, Shanghai Maritime University

Contributed Session CS042: Emerging Methods in Causal Inference and Multi-Omics Integration

- Room: Meeting Room D
Chair: Nayang Shan, Capital University of Economics and Business
- 13:30 基于孟德尔随机化的防晒行为、晒黑容易程度与泛肿瘤的因果推断及中介效应分析
Dier Tang, The University of Hong Kong
- 13:50 Bayesian Simultaneous Credible Bands for Polynomial Regression
Fei Yang, The University of Manchester
- 14:10 Online Kernel Projection for Ordinary Differential Equations in Diabetes Management
Li Ma, Xiamen University
- 14:30 Joint Modeling Approach for censored predictors in generalized linear model due to detection limit with applications to metabolites data
Fengxue Li, Tulane University
- 14:50 Multi-omic genetic scores for risk prediction of complex human diseases
Nayang Shan, Capital University of Economics and Business

**Invited Session IS097: 拉丁超方设计方法与应用**

Room: Xinde Hall

Chair: Yu Tang, Soochow University

Organizer: Hong Qin, Zhongnan University of Economics and Law

- 13:30 Construction of maximum projection Latin hypercube designs using number-theoretic methods
Yaping Wang, East China Normal University
- 13:55 大样本量最优拉丁超方设计的构造
Xu He, Chinese Academy of Sciences
- 14:20 Construction of high-level factorial designs via level amplification
Yu Tang, Soochow University
- 14:45 Construction of (nearly) orthogonal symmetric Latin hypercube design
Liuqing Yang, Central South University

2025-07-13 15:30-17:10**Invited Session IS012: Networks, Inference and Predictions**

Room: Xiangyun Hall

Chair: Dan Yang, The University of Hong Kong

Organizer: Linda Zhao, University of Pennsylvania

- 15:30 Optimal Assortment and Pricing Via Generalized MNL Models with Novel Poisson Arrivals
Qitao Huang, Tsinghua University
- 15:55 Regularizing BELIEF with Sequency Lasso
Wan Zhang, The AMSS Center of Forecasting Science
- 16:20 Equity Network: Government Ownership in Business Groups
Xian Gu, Durham University
- 16:45 Interpretable Factors of Firm Characteristics
Wu Zhu, Tsinghua University

Invited Session IS020: Machine Learning and its Application

Room: Ziguang Hall A

Chair: Bingyi Jing, Southern University of Science and Technology

Organizer: Bingyi Jing, Southern University of Science and Technology

- 15:30 Distributional Off-Policy Evaluation with Deep Quantile Process Regression
Fan Zhou, Shanghai University of Finance and Economics
- 15:55 Your Pre-trained LLM is Secretly an Unsupervised Confidence Calibrator
Hongxin Wei, Southern University of Science and Technology
- 16:20 Theoretical Modeling of LLM Self-Improvement Training Dynamics Through Solver-Verifier Gap
Jiaye Teng, Shanghai University of Finance and Economics

Invited Session IS028: Novel Inference and Computing Developments in Modern Statistics

Room: Ziguang Hall B

Chair: Hao Chen, University of California, Davis

Organizer: Mingxie Xie, Rutgers University

- 15:30 Latent Noise Injection for Private and Statistically Aligned Synthetic Data Generation
Lu Tian, Stanford University
- 15:55 Inference under Treatment Misclassification in Real-World COVID-19 Vaccine Effectiveness Studies
Qiong Wu, University of Pittsburgh
- 16:20 Antithetic Noise in Diffusion Models
Guanyang Wang, Rutgers University

Invited Session IS036: Best Practice of the Hawkes Process and its Variants

Room: Ziguang Hall C

Chair: Jiancang Zhuang, The Institute of Statistical Mathematics, Japan

Organizer: Jiancang Zhuang, The Institute of Statistical Mathematics, Japan

- 15:30 Coarse-grained Hawkes processes
Shinsuke Koyama, Institute of Statistical Mathematics
- 15:55 Bayesian inference of spatiotemporal Hawkes processes with Gaussian-process Priors
Yuanyuan Niu, The Institute of Statistical Mathematics
- 16:20 Likelihood-Free Estimation of Hawkes Processes from Binned Count Data
Feng Chen, UNSW Sydney
- 16:45 Latent Network Structure Learning from High-Dimensional Multivariate Point Processes
Biao Cai, City University of Hong Kong

Invited Session IS044: Recent Advances in Statistical Learning

Room: Dongfang Hall A

Chair: Jiashun Jin, Southeast University

Organizer: Jiashun Jin, Southeast University

- 15:30 High-Dimensional Bias Propagation in Multi-Temporal Covariance Dynamics: A Random Matrix Theory Approach
Zhenggang Wang, Southeast University
- 15:55 Network Goodness-of-Fit for the block-model family
Jingming Wang, University of Virginia
- 16:20 Ensuring Fairness in Machine Learning Through Data Selection Strategies
Yixuan Zhang, Southeast University



Invited Session IS052: Recent developments in decision-making and policy learning

Room: Dongfang Hall B

Chair: Zhengling Qi, George Washington University

Organizer: Zhengling Qi, George Washington University, Xingyuan Fang, Duke University

- 15:30 Synergetic Random Forests for Off-Policy Evaluation in Reinforcement Learning
Ruoqing Zhu, University of Illinois Urbana Champaign
- 15:55 A Semiparametric Instrumented Difference-in-Differences Approach to Policy Learning
Pan Zhao, University of Cambridge
- 16:20 Statistical Efficiency of Distributional Temporal Difference Learning
Liangyu Zhang, Shanghai University of Finance and Economics
- 16:45 Residual permutation test for regression coefficient testing
Yuhao Wang, Tsinghua University

Invited Session IS060: Variational Bayesian inference and complicated data analysis

Room: Baiyuan Hall

Chair: Yanqing Zhang, Yunnan University

Organizer: Niansheng Tang, Yunnan University

- 15:30 Variational Bayesian Logistic Tensor Regression with Application to Image Recognition
Yanqing Zhang, Yunnan University
- 15:55 Construction of orthogonal equivalent estimation split-plot designs
Po Yang, University of Manitoba
- 16:20 Scalable inference in functional linear regression with streaming data
Jinhan Xie, Yunnan University
- 16:45 Network alternating direction method of multipliers for ultrahigh-dimensional decentralised federated learning
Wei Dong, Zhengzhou University

Invited Session IS067: Matrix Data Analysis and its Applications

Room: Ziguang Hall E

Chair: Wang Zhou, National University of Singapore

Organizer: Wang Zhou, National University of Singapore

- 15:30 Edgeworth corrections for the largest eigenvalues in the spiked model
Jiang Hu, Northeast Normal University
- 15:55 TransPCA for Large-dimensional Factor Analysis with Weak Factors: Power Enhancement via Knowledge Transfer
Yalin Wang, Shandong University

- 16:20 High-Dimensional Statistical Inference Methods Based on Random Matrix Theory under Missing Observations.
Haotian Cheng, Chongqing University
- 16:45 On Reward Transferability in Adversarial Inverse Reinforcement Learning: Insights from Random Matrix Theory
Yangchun Zhang, Shanghai University

Contributed Session CS049: Innovative Approaches to Modern Data Challenges

Room: Huaide Hall

Chair: Huiyi Xia, Nanfang College Guangzhou

- 15:30 Privacy-Preserving Estimation of Weighted Average Treatment Effects via Bootstrap
Yangyang Li, Civil Aviation Flight University of China
- 15:50 Change point detection in temporal networks based on graph snapshot similarity measure
Yao Hu, Guizhou University
- 16:10 丝路药香 铸魂润疆：挖掘新疆多元中医药文化的发展潜能——以乌鲁木齐为例
Weitao Tan, Xinjiang University
- 16:30 样本效率评价与排序模型及应用研究
Zhiqiang Xu, JiLin University of Finance and Economics
- 16:50 大模型成功原因的探讨
Huiyi Xia, Nanfang College Guangzhou

Contributed Session CS051: Innovations in Experimental Design and Statistical Inference

Room: Xingde Hall

Chair: Yang Tian, Zhejiang University

- 15:30 Response-adaptive design leveraging real-world data with interval-censored survival outcomes
Hao Mei, Renmin University of China
- 15:55 半参数模型中未知参数的方向估计
Jinyue Han, Northeast Normal University
- 16:20 Orthogonal Projection-Based Specification Testing in Complex Survey Sampling
Mengmeng Xu, Yunnan University
- 16:45 Conformalized multiple testing with unknown null distribution.
Yang Tian, Zhejiang University

Invited Session IS083: Financial Statistics and its Application

Room: Zhongde Hall

Chair: Zhi Liu, University of Macau

Organizer: Zhi Liu, University of Macau

- 15:30 Distribution of continuous-time stochastic volatility
Zhi Liu, University of Macau



15:55 Large covariance matrix estimation with factor-assisted variable clustering

Dong Li, Tsinghua University

16:20 Martingal Difference Divergence Tests for Granger Causality in Quantiles

Muyi Li, Xiamen University

Contributed Session CS045: Advanced Learning Methods for Complex Decision Systems

Room: Meeting Room B

Chair: Minhao Qi, Zhejiang University

15:30 基于异质注意力图神经网络的中国股市高频交易量预测研究

Shaohua Ge, Zhongnan University of Economics and Law

15:50 住房反向抵押保险定价机制优化研究

Yuan Lu, Hainan University

16:10 基于组合机器学习模型的我国长期护理保险产品定价策略

Gongpin Cheng, Nanjing University of Finance and Economics

16:30 A Nudging-based Ocean Data Assimilation System Using Blocked Ensemble Kalman Filter with Multiple Inflation

Binghao Wang, Peking University

16:50 人工智能的职业替代风险研究 —— 基于 XGBoost-SHAP 的多维特征非线性效应分析

Yuwen Zhong, Jiangxi University of Finance and Economics

Contributed Session CS046: Advances in High-Dimensional Statistical Learning and Inference

Room: Zhicheng Room

Chair: Qilong Lu, Peking University

15:30 Signal-Adaptive Joint Graphical Model Learning via Dynamic Regularization

Shixiang Liu, Renmin University of China

15:50 Iterative Sure Screening Rules with Application to Accelerated Optimization of Regularized Regression

Ning Zhang, Shanghai University of International Business and Economics

16:10 Distributed Reconstruction from Compressive Measurements: Nonconvexity and Heterogeneity

Erbo Li, Renmin University of China

16:30 Causal Structure Learning of High-Dimensional Directed Acyclic Graphs with False Discovery Rate Control

Xueqian Kang, Xiamen University

16:50 Versatile Differentially Private Learning for General Loss Functions

Qilong Lu, Peking University

Contributed Session CS047: Policy Evaluation and Economic Modeling in Sustainable Development

Room: Wende Hall

Chair: Guorong Li, Jilin University of Finance and Economics

15:30 人口老龄化背景下延迟退休政策对城镇职工养老保险平衡性影响分析

Xuemin Hu, Inner Mongolia university of finance and economics

15:50 绿色金融、供应链韧性与重污染企业生态效率 —— 基于多层统计分析模型

Lei Yang, Nanchang University

16:10 全球疫苗与医疗设备贸易中的变点解析：基于拓扑演化与跨商品耦合效应研究

Yuwei Kang, Guizhou University of Finance and Economics

16:30 绿色氛围对绿色智能家电意愿的影响研究 —— 基于态度和主观规范的平行中介作用

Yuxin Dai, Beijing University of Chemical Technology

16:50 中国城市数字经济对实体经济效率的影响研究

Guorong Li, Jilin University of Finance and Economics

Contributed Session CS048: Advances in Model Selection and Specification Testing

Room: Ziguan Hall D

Chair: Zhe Li, Fudan University

15:30 Data-driven Smooth Test for the Equality of Distributions

Peiwen Jia, Peking University

15:55 Ranking Model Averaging

Ziheng Feng, Beijing University of Technology

16:20 Information Failure, Public Risk and the Acceptance of Artificial Intelligence: An Experimental Survey Study Focused on Intelligent Investment Advisors

Yilei Chen, Shihezi University

16:45 Consistent Selection of the Number of Groups in Panel Models via Cross-Validation

Zhe Li, Fudan University

Contributed Session CS050: Modern Statistical Methods for Precision Medicine and Genomics

Room: Meeting Room D

Chair: Chunyu Wang, Zhejiang University

15:30 Nonparametric tests of predictive variable with treatment interaction in randomized experiments

Kunhai Qing, East China Normal University

15:50 Sparse minimum distance kernel estimation for high-dimensional linear models

Mingqiu Wang, Qufu Normal University

16:10 X-chromosome Multilocus Association Studies for Common and Rare Variants

Bo Chen, Nankai University



16:30 Integrative analysis of microbial 16S gene and
shotgun metagenomic sequencing data improves
statistical efficiency in testing differential
abundance

Yicong Mao, Peking University

16:50 模型选择在估计最优动态治疗方案中的应用

Chunyu Wang, Zhejiang University

**Contributed Session CS044: Advances in Optimization and
Variable Selection Methods**

Room: Xinde Hall

Chair: Yuan Le, Fuzhou University

15:30 Research on the extension of convex clustering
Jianxi Zhao, Beijing Information Science and
Technology University

15:55 Asymptotic Analysis of Adam-type Optimizer
Yi Luo, Washington University in St. Louis

16:20 Rethinking Hard Thresholding Pursuit: Full
Adaptation and Sharp Estimation
Yanhang Zhang, Renmin University of China

16:45 Reinforced variable selection
Yuan Le, Fuzhou University