

Schedule

The 9th International Forum on Statistics 第九届中国人民大学国际统计论坛 July 14-15, 2023			
Date	Time	Venue	Event
13th (Thu.)	14:00-17:00	- Room 211, Mingde Main Building * (on campus) - Lobby of Building No.4, Beijing Friendship Hotel * (off campus)	Registration
14th (Fri.)	08:30-09:00	Mingde Hall*	Registration
	09:00-09:30		Opening Ceremony
	09:30-10:00		Break
	10:00-11:00		Plenary Talk: Zhiming Ma
	11:00-12:00		Plenary Talk: Zongben Xu
	12:00-13:30	North Canteen*	Lunch
	13:30-15:10	Mingde Building	Invited Sessions
	15:40-17:40	Mingde Hall	Distinguished Session - Tianxi Cai - Yazhen Wang - Ming Yuan
15th (Sat.)	09:00-10:00	Mingde Hall	Plenary Talk: Xihong Lin
	10:00-11:00		Plenary Talk: Michael I. Jordan
	11:00-11:20		Break
	11:20-12:20		Plenary Talk: Richard J. Samworth
	12:20-13:30	North Canteen	Lunch
	13:30-15:10	Mingde Building	Invited Sessions
	15:40-17:40	Mingde Hall	Distinguished Session - Heping Zhang - Regina Y. Liu - Cun-Hui Zhang
	17:40-18:00	Mingde Hall	Closing Ceremony

*Building No.4, Beijing Friendship Hotel : 北京友谊宾馆怡宾楼

*Mingde (Main) Building : 明德(主)楼 Mingde Hall: 明德堂 North Canteen: 北区食堂

Program

July 14 (Friday)		Venue
08:30-09:00	Registration	Mingde Hall
09:00-09:30	Opening Ceremony	
	<p>Donggang Zhang (Chair of the University Council of Renmin University of China)</p> <p>Zude Xian (Counselor, the State Council of China)</p> <p>T. Tony Cai (University of Pennsylvania)</p>	
09:30-10:00	Break	
	Plenary Talks	
10:00-11:00	<p>Chair: Rongming Wang (Shanghai University of International Business and Economics)</p> <p>Title: From Polar Cods to Entropic Central Limit Theorem</p> <p>Speaker: Zhiming Ma (Chinese Academy of Sciences)</p>	
11:00-12:00	<p>Chair: Jun Liu (Harvard University)</p> <p>Title: How to learn learning methodology? —the Essence of Big Models</p> <p>Speaker: Zongben Xu (Xi'an Jiaotong University)</p>	
Lunch 2 nd Floor, North Canteen		
13:30-15:10	Parallel Invited Sessions	
15:10-15:40	Break	
	<p>Distinguished Session</p> <p>Chair: Weiguo Wang (Dongbei University of Finance and Economics)</p> <p>Ying Fang (Xiamen University)</p>	Mingde Hall
15:40-16:20	<p>Title: Generating Robust Evidence with Multi-institutional EHR Data</p> <p>Speaker: Tianxi Cai (Harvard University)</p>	
16:20-17:00	<p>Title: Quantum Machine Learning</p> <p>Speaker: Yazhen Wang (University of Wisconsin-Madison)</p>	
17:00-17:40	<p>Title: Spectral Learning for High Dimensional Tensors</p> <p>Speaker: Ming Yuan (Columbia University)</p>	

July 15 (Saturday)		Venue
	Plenary Talks	Mingde Hall
09:00-10:00	Chair: Jianhua Guo (Beijing Technology and Business University) Title: Fast Distributed Principal Component Analysis of Large-Scale Federated Data Speaker: Xihong Lin (Harvard University)	
10:00-11:00	Chair: Tianxi Cai (Harvard University) Title: On Dynamics-Informed Blending of Machine Learning and Microeconomics Speaker: Michael I. Jordan (University of California, Berkeley)	
11:00-11:20	Break	
11:20-12:20	Chair: Dayue Chen (Peking University) Title: Optimal Nonparametric Testing of Missing Completely at Random, and Its Connections to Compatibility Speaker: Richard J. Samworth (University of Cambridge)	
Lunch 2 nd Floor, North Canteen		
13:30-15:10	Parallel Invited Sessions	
15:10-15:40	Break	
	Distinguished Session Chair: Xuguang Song (Beijing Normal University)	Mingde Hall
15:40-16:20	Title: Genetic Studies of Human Brain Imaging Data Speaker: Heping Zhang (Yale University)	
16:20-17:00	Title: Fusion and i-Fusion (Individualized Fusion) Learning Speaker: Regina Y. Liu (Rutgers University)	
17:00-17:40	Title: Adaptive Inference in Sequential Experiments Speaker: Cun-Hui Zhang (Rutgers University)	
	Closing Ceremony	
17:40-18:00	Chair: Yang Li (Deputy Dean of Graduate School, Renmin University of China) Speaker: Xiaojun Wang (Dean of School of Statistics, Renmin University of China)	

Invited Sessions

Session No.	Session Name
01	Advances in Machine Learning Theories and Methods
02	Advance in Design and Analysis of Omic and Observational Studies
03	Advance in Machine Learning
04	Advanced Genetic Analytics
05	Advanced in Complex Data Analysis
06	Advancement in Statistical Causal Inference and Applications
07	Aspects of Data Science: New and Old
08	Bio-Medical Data and Machine Learning: From Data, Model to Decision Making
09	Data Science in Medical Application
10	Digital Economy, Digital Life and Statistical Measurement
11	Financial Econometrics
12	Frontiers in Financial Statistics
13	Gradient Descent and its Statistical Theory
14	High Dimensional Methods for Estimation and Inference
15	High-Dimensional and Functional Learning
16	Image and Text Data Analysis with Application
17	Machine Learning for Functional Data and Causal Inference
18	Mathematical Statistics under The Big Data Era
19	MCMC and Clustering
20	Modern Statistical Learning and its Applications to Image Data Analysis
21	Network Analysis and Spatial Autoregressive Models
22	New Machine Learning Paradigms in Biomedical Studies
23	New Statistical Learning and Inferences in Data Science Applications
24	Probability and Statistical Methods in Science
25	Recent Advances in Analyzing Complex Structured Data
26	Recent Advances in High Dimensional Statistics
27	Recent Advances of High-Dimensional Inference and Statistical Learning
28	Some Theories about Deep Neural Networks
29	Special Invited Session for JDS
30	Statistical Methods for Healthcare and Biometrics
31	Statistical Methods for Network Data and Precision Health
32	Statistical Modeling for Complex Networks
33	Statistics and Machine Learning
34	Statistics and Machine Learning for Complex Data
35	Statistics in Finance and Risk Management
36	Statistics in Pharmaceutical Industry
37	Subgroup Analyses and Identification, Graphical Model and Differential Privacy
38	Subsampling Methods for Massive Data Analysis

July 14 (Friday)		July 15 (Saturday)	
Session No.	Venue	Session No.	Venue
03	MD-I 0103	01	MD-B 0302
04	MD-I 0106	02	MD-I 0206
07	MD-I 0304	05	MD-I 0103
08	MD-I 0204	06	MD-I 0106
09	MD-B 0402	10	MD-B 0402
12	MD-I 0205	11	MD-M 1037
13	MD-I 0206	16	MD-I 0207
14	MD-M 1030	17	MD-I 0304
15	MD-I 0207	19	MD-I 0308
18	MD-M 1037	20	MD-I 0305
21	MD-B 0302	23	MD-I 0204
22	MD-I 0306	25	MD-M 1030
24	MD-M 1016	26	MD-I 0306
29	MD-I 0308	27	MD-I 0205
30	MD-B 0301	28	MD-M 1016
31	MD-I 0307	33	MD-B 0401
32	MD-I 0305	35	MD-M 1031
34	MD-B 0401	36	MD-I 0307
37	MD-M 1031	38	MD-B 0301

Mingde International Building: MD-I

Mingde Business Building: MD-B

Mingde Main Building: MD-M

Invited Sessions Schedule

Friday, July 14 Time:13:30-15:10				
03-Advances in Machine Learning	04-Advanced Genetic Analytics	07-Aspects of Data Science: New and Old	08-Bio-Medical Data and Machine Learning: From Data, Model to Decision Making	09-Data Science in Medical Application
<u>Chair:</u> Jianxin Yin <u>Venue:</u> MD-I 0103	<u>Chair:</u> Min Li <u>Venue:</u> MD-I 0106	<u>Chair:</u> Yannis Yatracos <u>Venue:</u> MD-I 0304	<u>Chair:</u> Tao Sun <u>Venue:</u> MD-I 0204	<u>Chair:</u> Jing Zhou <u>Venue:</u> MD-B 0402
Weijie Su Ting Tian Wei Lin Jia Liu	Mengyun Wu Jialiang Li Kuangnan Fang Yize Zhao	Efstathia Bura Jinchi Lv Han Xiao Yannis Yatracos	Chuan Hong Zilin Li Yuan Cao Lihua Yao	Hongqiu Gu Xin Yang Qijie Wei Xiaotong Fu
12-Frontiers in Financial Statistics	13-Gradient Descent and its Statistical Theory	14-High Dimensional Methods for Estimation and Inference	15- High-Dimensional and Functional Learning	18-Mathematical Statistics under The Big Data Era
<u>Chair:</u> Yingying Li <u>Venue:</u> MD-I 0205	<u>Chair:</u> Xuening Zhu <u>Venue:</u> MD-I 0206	<u>Chair:</u> Dan Yang <u>Venue:</u> MD-M 1030	<u>Chair:</u> Long Feng <u>Venue:</u> MD-I 0207	<u>Chair:</u> Xinyan Fan <u>Venue:</u> MD-M 1037
Xin Tong Xinghua Zheng Yingying Li Zhengjun Zhang	Catherine Liu Haobo Qi Shuyuan Wu Yuan Gao	Lyouu Zhang Yong He Sai Li Zhanrui Cai	Takeru Matsuda Yuling Jiao Mengxi Yi Glen Wright Colopy	Junlong Zhao Zhonghua Liu Hanzhong Liu Chunyan Wang

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Friday, July 14 Time:13:30-15:10				
21-Network Analysis and Spatial Autoregressive Models	22- New Machine Learning Paradigms in Biomedical Studies	24-Probability and Statistical Methods in Science	29-Special Invited Session for JDS	30-Statistical Methods for Healthcare and Biometrics
<u>Chair:</u> Danyang Huang <u>Venue:</u> MD-B 0302	<u>Chair:</u> Canyi Chen <u>Venue:</u> MD-I 0306	<u>Chair:</u> Jun Deng <u>Venue:</u> MD-M 1016	<u>Chair:</u> Yichen Qin <u>Venue:</u> MD-I 0308	<u>Chair:</u> Cunjie Lin <u>Venue:</u> MD-B 0301
Wei Lan Xi Qu Xingbai Xu Wei Du	Hongzhe Li Lu Tang Jiwei Zhao Jian Kang	Min Qian Ben Wu Nianqiao Ju Lei Qin	Yichen Qin Tiandong Wang Marius Hofert Wei Chen	Ying Ding Wang Miao Wei Li Xu Guo
31- Statistical Methods for Network Data and Precision Health	32-Statistical Modeling for Complex Networks	34- Statistics and Machine Learning for Complex Data	37- Subgroup Analyses and Identification, Graphical Model and Differential Privacy	
<u>Chair:</u> Hongjian Zhu <u>Venue:</u> MD- I 0307	<u>Chair:</u> Ji Zhu <u>Venue:</u> MD-I 0305	<u>Chair:</u> Hui Huang <u>Venue:</u> MD-B 0401	<u>Chair:</u> Xueqin Wang <u>Venue:</u> MD-M 1031	
Annie Qu Jingfei Zhang Lucy Xia Xinzhou Guo	Jing Lei Bingyi Jing Xiaoyue Niu Hansheng Wang	Hui Huang Mingyang Ren Baihua He Wu Wang	Xueqin Wang Juan Shen Junhui Wang Yanqing Zhang	

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Saturday, July 15 Time:13:30-15:10				
01-Advances in Machine Learning Theories and Methods	02- Advance in Design and Analysis of Omic and Observational Studies	05-Advanced in Complex Data Analysis	06- Advancement in Statistical Causal Inference and Applications	10-Digital Economy, Digital Life and Statistical Measurement
<u>Chair:</u> Xiaoling Lu <u>Venue:</u> MD-B 0302	<u>Chair:</u> Heping Zhang <u>Venue:</u> MD-I 0206	<u>Chair:</u> Yuan Zhang <u>Venue:</u> MD-I 0103	<u>Chair:</u> Peng Ding <u>Venue:</u> MD-I 0106	<u>Chair:</u> Yilin Wu <u>Venue:</u> MD-B 0402
Xiangyu Chang Xuening Zhu Yixuan Qiu Feifei Wang	Jiayang Sun Pei Wang Jie Peng Xinping Cui	Feng Li Yanfei Kang Qi Long Yuan Zhang	Peng Ding Can Yang Zhichao Jiang Yingjie Feng	Yuezhou Cai Menggen Chen Jingping Li
11-Financial Econometrics	16-Image and Text Data Analysis with Application	17- Machine Learning for Functional Data and Causal Inference	19-MCMC and Clustering	20- Modern Statistical Learning and its Applications to Image Data Analysis
<u>Chair:</u> Ben Wu <u>Venue:</u> MD-M 1037	<u>Chair:</u> Qianhan Zeng <u>Venue:</u> MD-I 0207	<u>Chair:</u> Yuanyuan Zhang <u>Venue:</u> MD-I 0304	<u>Chair:</u> Efstathia Bura <u>Venue:</u> MD-I 0308	<u>Chair:</u> Long Feng <u>Venue:</u> MD-I 0305
Ping Li Jun Deng Zhi Liu Rui Pan	Qianhan Zeng Jing Zhou Ke Xu Xiao Wang	Huiming Zhang Ke Zhu Subhra Sankar Dhar Hengrui Cai	Weichen Wang Guanyang Wang Xinkai Zhou Weining Shen	Jian Huang Long Feng Ting Li Wenliang Pan

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Saturday, July 15 Time:13:30-15:10				
23-New Statistical Learning and Inferences in Data Science Applications	25-Recent Advances in Analyzing Complex Structured Data	26- Recent Advances in High Dimensional Statistics	27- Recent Advances of High-Dimensional Inference and Statistical Learning	28- Some Theories about Deep Neural Networks
<u>Chair:</u> Regina Liu <u>Venue:</u> MD-I 0204	<u>Chair:</u> Changcheng Li <u>Venue:</u> MD-M 1030	<u>Chair:</u> Zeng Li <u>Venue:</u> MD-I 0306	<u>Chair:</u> Yandi Shen <u>Venue:</u> MD-I 0205	<u>Chair:</u> Qian Lin <u>Venue:</u> MD-M 1016
Yubai Yuan Yuexia Zhang Zijian Guo Ji Zhu	Changcheng Li Qingning Zhou Zhao Chen Zhaoxing Gao	Bowen Gang Xiaoyi Wang Zeng Li	Xiaodong Li Dan Yang Yandi Shen	Jianfa Lai Chuanlong Xie Weihao Lu
33- Statistics and Machine Learning	35- Statistics in Finance and Risk Management	36-Statistics in Pharmaceutical Industry	38-Subsampling Methods for Massive Data Analysis	
<u>Chair:</u> Wu Wang <u>Venue:</u> MD-B 0401	<u>Chair:</u> Zhengyan Xiao <u>Venue:</u> MD-M 1031	<u>Chair:</u> Shuping Jiang <u>Venue:</u> MD-I 0307	<u>Chair:</u> Xuetong Li <u>Venue:</u> MD-B 0301	
Shang Wu Guorong Dai Feiyu Jiang Bin Liu	Xiangyu Cui Huiling Yuan Zaichao Du Xin Zang	Linda Sun Hao Mei Hong Tian Yang Zhao	Xuetong Li Jun Yu Yingqiu Zhu Yingying Ma	

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Friday, July 14

Parallel Invited Session 03: Advances in Machine Learning	
Chair: Jianxin Yin (Renmin University of China) Venue: MD-I 0103	
13:30--13:55	Title: A "Physical" Law of Data Separation in Deep Learning Authors: Weijie Su (University of Pennsylvania)
13:55--14:20	Title: Ocean 3D Variable Field Inversion Based on Improved Physics-Informed Neural Networks Authors: Zhixi Xiong, Yukang Jiang, Wenfang Lu, Xueqin Wang, Ting Tian (Sun Yat-sen University)
14:20--14:45	Title: Nonasymptotic Theory for Two-Layer Neural Networks: Beyond the Bias-Variance Trade-off Authors: Huiyuan Wang, Wei Lin (Peking University)
14:45--15:10	Title: Mining Consumer Complaints for Recall Management: A Topic Model for Decision Automation Authors: Wen Shi, Yujie Qu, Jia Liu (The Hong Kong University of Science and Technology)

Parallel Invited Session 04: Advanced Genetic Analytics	
Chair: Min Li (Central South University) Venue: MD-I 0106	
13:30--13:55	<p>Title: Bi-level Structured Functional Analysis for Genome-wide Association Studies</p> <p>Authors: Mengyun Wu(Shanghai University of Finance and Economics) Fan Wang, Yeheng Ge, Shuangge Ma, Yang Li</p>
13:55--14:20	<p>Title: A Network Approach to Compute Hypervolume under ROC Manifold for Multi-class Biomarkers</p> <p>Authors: Jiali Li(National University of Singapore)</p>
14:20--14:45	<p>Title: Pathological Imaging-assisted Cancer Gene-environment Interaction Analysis</p> <p>Authors: Kuangnan Fang(Xiamen University)</p>
14:45--15:10	<p>Title: Genetic Underpinnings of Brain Structural Connectome for Young Adults</p> <p>Authors: Yize Zhao(Yale University), Changgee Chang, Jingwen Zhang, Zhengwu Zhang</p>

Parallel Invited Session 07: Aspects of Data Science: New and Old	
Chair: Yannis Yatracos (Tsinghua University) Venue: MD-I 0304	
13:30--13:55	<p>Title: Exact and Approximate Moment Derivation for Probabilistic Loops with Non-polynomial Assignments</p> <p>Authors: Andrey Kofnov, Efstathia Bura (TU Wien), Ezio Bartocci</p>
13:55--14:20	<p>Title: Optimal Nonparametric Inference with Two-Scale Distributional Nearest Neighbors</p> <p>Authors: Jinchi Lv(University of Southern California)</p>
14:20--14:45	<p>Title: Cointegrated Matrix Autoregressive Models</p> <p>Authors: Zebang Li, Han Xiao(Rutgers University)</p>
14:45--15:10	<p>Title: Breiman's Samplers or Models? There is a little but important difference: Models can be wrong!</p> <p>Authors: Yannis Yatracos(Tsinghua University)</p>

Parallel Invited Session 08: Bio-Medical Data and Machine Learning: From Data, Model to Decision Making	
Chair: Tao Sun (Renmin University of China) Venue: MD-I 0204	
13:30--13:55	<p>Title: KESER: Clinical Knowledge Extraction via Sparse Embedding Regression with EHR data</p> <p>Authors: Chuan Hong (Harvard Medical School), Everett Rush, Molei Liu, Tianxi Cai</p>
13:55--14:20	<p>Title: STAARpipeline: an All-in-one Rare-variant Analysis Tool for Biobank-scale Whole-genome Sequencing Data</p> <p>Authors: Zilin Li (Northeast Normal University), Xihao Li, Xihong Lin</p>
14:20--14:45	<p>Title: Understanding Adaptive Gradient Methods in Training Neural Networks: Risk Bounds and Practical Implications</p> <p>Authors: Difan Zou, Yuan Cao (The University of Hong Kong), Yuanzhi Li, Quanquan Gu</p>
14:45--15:10	<p>Title: Prediction of Cognitive Impairment Using Higher Order Item Response Theory and Machine Learning Models</p> <p>Authors: Lihua Yao (Northwestern University Feinberg School of Medicine), Emily Ho, Aaron Kaat, Richard Gershon</p>

Parallel Invited Session 09: Data Science in Medical Application	
Chair: Jing Zhou (Renmin University of China) Venue: MD-B 0402	
13:30--13:55	<p>Title: Recent Advances and Applications of Digital Health in Stroke</p> <p>Authors: Hongqiu Gu (Beijing Tiantan Hospital)</p>
13:55--14:20	<p>Title: AI for Medical Ultrasound: Imaging, Analysis and Generalization in the Wild</p> <p>Authors: Xin Yang (Shenzhen University)</p>
14:20--14:45	<p>Title: Domain Adaptation for Data-Efficient Fundus Disease Recognition</p> <p>Authors: Qijie Wei (Renmin University of China)</p>
14:45--15:10	<p>Title: Adaptive Fusion of Radiomics and Deep Features for Lung Adenocarcinoma Subtype Recognition</p> <p>Authors: Jing Zhou, Xiaotong Fu (Renmin University of China), Xirong Li, Ying Ji</p>

Parallel Invited Session 12: Frontiers in Financial Statistics	
Chair: Yingying Li (Hong Kong University of Science and Technology) Venue: MD-I 0205	
13:30--13:55	Title: Individual-centered Partial Information in Social Networks Authors: Xiao Han, Rachel Wang, Xin Tong (University of Southern California)
13:55--14:20	Title: High-Dimensional Covariance Matrices Under Dynamic Volatility Models: Asymptotics and Shrinkage Estimation Authors: Yi Ding, Xinghua Zheng (HKUST)
14:20--14:45	Title: Estimating Efficient Frontier with All Risky Assets Authors: Leheng Chen, Yingying Li (HKUST), Xinghua Zheng
14:45--15:10	Title: Currency Exchange Rate Predictability: the New Power of Bitcoin Prices Authors: Wenjun Feng, Zhengjun Zhang (University of Chinese Academy of Sciences)

Parallel Invited Session 13: Gradient Descent and its Statistical Theory	
Chair: Xuening Zhu (Fudan University) Venue: MD-I 0206	
13:30--13:55	Title: Joint Feature Screening Incorporating Network Structure Among Responses Authors: Xu Zhang, Xiangeng Fang, Sheng Xu, Xuening Zhu, Catherine Liu (The Hong Kong Polytechnic University)
13:55--14:20	Title: Statistical Analysis of Fixed Mini-Batch Gradient Descent Estimator Authors: Haobo Qi (Beijing Normal University), Feifei Wang, Hansheng Wang
14:20--14:45	Title: Network Gradient Descent Algorithm for Decentralized Federated Learning Authors: Shuyuan Wu (Shanghai University of Finance and Economics), Danyang Huang, Hansheng Wang
14:45--15:10	Title: An Asymptotic Analysis of Random Partition Based Minibatch Momentum Methods for Linear Regression Models Authors: Yuan Gao (Peking University), Xuening Zhu, Haobo Qi, Guodong Li, Riquan Zhang, Hansheng Wang

Parallel Invited Session 14: High Dimensional Methods for Estimation and Inference	
Chair: Dan Yang (The University of Hong Kong) Venue: MD-M 1030	
13:30--13:55	Title: High Dimensional Clustering via Latent Semiparametric Mixture Models Authors: Lyuou Zhang (Shanghai University of Finance and Economics), Lulu Wang, Wen Zhou, Boxiang Wang, Hui Zou
13:55--14:20	Title: Robust Statistical Inference for Large-dimensional Matrix-valued Time Series via Iterative Huber Regression Authors: Yong He (Shandong University), Xinbing Kong, Dong Liu, Ran Zhao
14:20--14:45	Title: Multi-dimensional Domain Generalization with Low-rank Structures Authors: Sai Li (Renmin University of China), Linjun Zhang
14:45--15:10	Title: Adaptive False Discovery Rate Control with Privacy Guarantee Authors: Zhanrui Cai (University of Hong Kong)

Parallel Invited Session 15: High-Dimensional and Functional Learning	
Chair: Long Feng (The University of Hong Kong) Venue: MD-I 0207	
13:30--13:55	Title: Matrix Estimation via Singular Value Shrinkage Authors: Takeru Matsuda (University of Tokyo & RIKEN Center for Brain Science)
13:55--14:20	Title: Error Analysis on Pre-Training and Fine-tuning in Based on Deep Sufficient and Invariant Representation Learning Authors: Yuling Jiao (Wuhan Univeristy)
14:20--14:45	Title: Robust Regularized Covariance Matrices Authors: Mengxi Yi (Beijing Normal University), David E. Tyler, Klaus Nordhausen
14:45--15:10	Title: Algriculture: Harnessing Statistical & Deep Learning for Precision Monitoring in Hydroponic Farms Authors: Jishnu Mukhoti, Mohammed Alezzabi, Glen Wright Colopy (Wildfell Software LLC, Alesca Life Technologies)

Parallel Invited Session 18: Mathematical Statistics under The Big Data Era	
Chair: Xinyan Fan (Renmin University of China) Venue: MD-M 1037	
13:30--13:55	<p>Title: Estimation of Linear Functionals in High Dimensional Linear Models: From Sparsity to Non-sparsity</p> <p>Authors: Junlong Zhao (Beijing Normal University)</p>
13:55--14:20	<p>Title: Semiparametric Efficient G-estimation with Invalid Instrumental Variables</p> <p>Authors: Baoluo Sun, Zhonghua Liu (Columbia University), Eric Tchetgen</p>
14:20--14:45	<p>Title: Design-based Theory for Cluster Rerandomization</p> <p>Authors: Xin Lu, Tianle Liu, Hanzhong Liu (Tsinghua University), Peng Ding</p>
14:45--15:10	<p>Title: Order-of-addition Experiments</p> <p>Authors: Chunyan Wang (Renmin University of China), Dennis K. J. Lin</p>

Parallel Invited Session 21: Network Analysis and Spatial Autoregressive Models	
Chair: Danyang Huang (Renmin University of China) Venue: MD-B 0302	
13:30--13:55	<p>Title: Testing Stochastic Block Models Via the Maximum Sampling Entry-Wise Deviation</p> <p>Authors: Wei Lan (Southwestern University of Finance and Economics)</p>
13:55--14:20	<p>Title: Estimating Social Network Models with Missing Links</p> <p>Authors: Arthur Lewbel, Xi Qu (Shanghai Jiao Tong University), Xun Tang</p>
14:20--14:45	<p>Title: Application of Functional Dependence to Spatial Econometrics</p> <p>Authors: Zeqi Wu, Wen Jiang, Xingbai Xu (Xiamen University)</p>
14:45--15:10	<p>Title: Cryptocurrency Market Risk: a Network-centric Approach for Cryptocurrency Price trend Prediction</p> <p>Authors: Wei Du (Renmin University of China)</p>

Parallel Invited Session 22: New Machine Learning Paradigms in Biomedical Studies	
Chair: Canyi Chen (Renmin University of China) Venue: MD-I 0306	
13:30--13:55	<p>Title: Transfer Learning with Applications in Genomics</p> <p>Authors: Hongzhe Li (University of Pennsylvania)</p>
13:55--14:20	<p>Title: Robust Transfer Learning of Individualized Treatment Rules</p> <p>Authors: Lu Tang (University of Pittsburgh)</p>
14:20--14:45	<p>Title: ELSA: Efficient Label Shift Adaptation through the Lens of Semiparametric Models</p> <p>Authors: Jiwei Zhao (University of Wisconsin-Madison)</p>
14:45--15:10	<p>Title: Deep Kernel Learning Based Gaussian Processes for Bayesian Image Regression Analysis</p> <p>Authors: Jian Kang (University of Michigan)</p>

Parallel Invited Session 24: Probability and Statistical Methods in Science	
Chair: Jun Deng (University of International Business and Economics) Venue: MD-M 1016	
13:30--13:55	<p>Title: Regularized greedy gradient Q-learning with mobile health applications</p> <p>Authors: Min Qian (Columbia University)</p>
13:55--14:20	<p>Title: Bayesian Spatially Varying Weight Neural Networks with the Soft-Thresholded Gaussian Process Prior</p> <p>Authors: Ben Wu (Renmin University of China), Keru Wu, Jian Kang</p>
14:20--14:45	<p>Title: Data Augmentation MCMC for Bayesian Inference from Privatized Data</p> <p>Authors: Niangqiao Ju (Purdue University), Ruobin Gong, Jordan Awan, Vinayak Rao</p>
14:45--15:10	<p>Title: Gender Differences in the Non-specific and Health-specific Use of Social Media Before and During the COVID-19 Pandemic: Trend Analysis Using HINTS 2017-2020 Data</p> <p>Authors: Linglong Ye, Yang Chen, Yongming Cai, Yi-Wei Kao, Yuanxin Wang, Mingchih Chen, Ben-Chang Shia, Lei Qin (University of International Business and Economics)</p>

Parallel Invited Session 29: Special Invited Session for JDS	
Chair: Yichen Qin (University of Cincinnati) Venue: MD-I 0308	
13:30--13:55	<p>Title: Iterative Connecting Probability Estimation for Networks</p> <p>Authors: Yichen Qin (University of Cincinnati)</p>
13:55--14:20	<p>Title: Changepoint Detection in Preferential Attachment Networks</p> <p>Authors: Daniel Cirkovic, Tiandong Wang (Fudan University), Xianyang Zhang</p>
14:20--14:45	<p>Title: Dependence model assessment and selection with DecoupleNets</p> <p>Authors: Marius Hofert (The University of Hong Kong), Avinash Prasad, Mu Zhu</p>
14:45--15:10	<p>Title: Model-based Doublet Detection in Single-cell Multi-omics Data</p> <p>Authors: Wei Chen (University of Pittsburgh)</p>

Parallel Invited Session 30: Statistical Methods for Healthcare and Biometrics	
Chair: Cunjie Lin (Renmin University of China) Venue: MD-B 0301	
13:30--13:55	<p>Title: A Flexible Pseudo Outcome Regression Framework for Analyzing Treatment Heterogeneity in Survival Outcomes</p> <p>Authors: Na Bo, Ying Ding (University of Pittsburgh)</p>
13:55--14:20	<p>Title: Introducing the Specificity Score: a Measure of Causality Beyond P Value</p> <p>Authors: Wang Miao (Peking University)</p>
14:20--14:45	<p>Title: Sparse Causal Mediation Analysis with Unmeasured Mediator-outcome Confounding</p> <p>Authors: Kang Shuai, Lan Liu, Yangbo He, Wei Li (Renmin University of China)</p>
14:45--15:10	<p>Title: Semiparametric Efficient Estimation of Genetic Relatedness with Machine Learning Methods</p> <p>Authors: Xu Guo (Beijing Normal University), Yiyuan Qian, Hongwei Shi, Weichao Yang, Niwen Zhou</p>

Parallel Invited Session 31: Statistical Methods for Network Data and Precision Health	
Chair: Hongjian Zhu (AbbVie Inc.) Venue: MD- I 0307	
13:30--13:55	<p>Title: A Model-Agnostic Graph Neural Network Integrating Heterogeneous Network Data</p> <p>Authors: Wenzhuo Zhou , Annie Qu (UCI), Keiland Cooper , Norbert Fortin , Babak Shalbaba</p>
13:55--14:20	<p>Title: Estimating cell-type-specific gene co-expression networks from bulk gene expression data</p> <p>Authors: Emma Jingfei Zhang (Emory University)</p>
14:20--14:45	<p>Title: Fairness-adjusted Neyman-Pearson Classifiers</p> <p>Authors: Ziqing Guo, Xin Tong, Lucy Xia (HKUST)</p>
14:45--15:10	<p>Title: Inference on Potentially Identified Subgroups in Clinical Trials</p> <p>Authors: Shuoxun Xu, Xinzhou Guo (HKUST)</p>

Parallel Invited Session 32: Statistical Modeling for Complex Networks	
Chair: Ji Zhu (University of Michigan) Venue: MD-I 0305	
13:30--13:55	<p>Title: Spectral Clustering for Heterophilic Stochastic Block Models with Dynamic Node Memberships</p> <p>Authors: Jing Lei (Carnegie Mellon University), Kevin Lin</p>
13:55--14:20	<p>Title: Point of Interest Recommendation</p> <p>Authors: Bingyi Jing (Southern University of Science and Technology)</p>
14:20--14:45	<p>Title: A Dynamic Additive and Multiplicative Effects Network Model with Application to the United Nations Voting Behaviors</p> <p>Authors: Bomin Kim, Xiaoyue Niu (Penn State University), David Hunter, Xun Cao</p>
14:45--15:10	<p>Title: Network Gradient Descent Algorithm for Decentralized Federated Learning</p> <p>Authors: Shuyuan Wu, Danyang Huang, Hansheng Wang (Peking University)</p>

Parallel Invited Session 34: Statistics and Machine Learning for Complex Data	
Chair: Hui Huang (Sun Yat-sen University) Venue: MD-B 0401	
13:30--13:55	<p>Title: Dynamic Models for Correcting Numerical Model Outputs</p> <p>Authors: Yewen Chen, Xiaohui Chang, Hui Huang (Sun Yat-sen University)</p>
13:55--14:20	<p>Title: Transfer DAG Learning</p> <p>Authors: Mingyang Ren (The Chinese University of Hong Kong), Junhui Wang</p>
14:20--14:45	<p>Title: Transfer Learning by Optimal Model Averaging for Censored Data</p> <p>Authors: Baihua He (University of Science and Technology of China), Jiping Wang, Shuangge Ma, Lixing Zhu, Xinyu Zhang</p>
14:45--15:10	<p>Title: Latent Group Detection in Partially Functional Linear Regression Models</p> <p>Authors: Wu Wang (Renmin University of China), Ying Sun, Huixia Judy Wang</p>

Parallel Invited Session 37: Subgroup Analyses and Identification, Graphical Model and Differential Privacy	
Chair: Xueqin Wang (University of Science and Technology of China) Venue: MD-M 1031	
13:30--13:55	<p>Title: Best Subset Selection: Theory and Algorithm</p> <p>Authors: Xueqin Wang (University of Science and Technology of China)</p>
13:55--14:20	<p>Title: Bayesian Variable Selection on Structured Logistic-Mixture Models for Subgroup Analysis</p> <p>Authors: Juan Shen (Fudan University)</p>
14:20--14:45	<p>Title: Chain Graph Models: Identifiability, Estimation and Asymptotics</p> <p>Authors: Junhui Wang (Chinese University of Hong Kong), Ruixuan Zhao, Haoran Zhang</p>
14:45--15:10	<p>Title: Differentially Private Data Release for Mixed-type Data via Latent Factor Models</p> <p>Authors: Yanqing Zhang (Yunnan University), Qi Xu, Niansheng Tang, Annie Qu</p>

Saturday, July 15

Parallel Invited Session 01: Advances in Machine Learning Theories and Methods	
Chair: Xiaoling Lu (Renmin University of China) Venue: MD-B 0302	
13:30--13:55	Title: 2D-Shapley: A Framework for Fragmented Data Valuation Authors: Zhihong Liu, Hoang Anh Just, Xiangyu Chang (Xi'an Jiaotong University), Xi Chen, Ruoxi Jia
13:55--14:20	Title: Consistent Selection of the Number of Groups in Panel Models via Sample-Splitting Authors: Xuening Zhu (Fudan University)
14:20--14:45	Title: Efficient, Stable, and Analytic Differentiation of the Sinkhorn Loss Authors: Yixuan Qiu (Shanghai University of Finance and Economics), Haoyun Yin, Xiao Wang
14:45--15:10	Title: Peer-Label Assisted Hierarchical Text Classification Authors: Feifei Wang (Renmin University of China)

Parallel Invited Session 02: Advance in Design and Analysis of Omic and Observational Studies	
Chair: Heping Zhang (Southern University of Science and Technology) Venue: MD-I 0206	
13:30--13:55	<p>Title: Sampling Bias: Impact and Tests</p> <p>Authors: Jiayang Sun (George Mason University), Michael Woodroffe, Zixiang Xu, Mary Meyer</p>
13:55--14:20	<p>Title: Learning Directed Acyclic Graphs for Ligands and Receptors Based on Spatially Resolved Transcriptomic Analysis</p> <p>Authors: Pei Wang (Icahn School of Medicine at Mount Sinai)</p>
14:20--14:45	<p>Title: Learning Directed Acyclic Graphs with Mixed Variables</p> <p>Authors: Jie Peng (University of California, Davis), Pei Wang, Shrabanti Chowdhury</p>
14:45--15:10	<p>Title: Error Rate 2.0 and Targeted Therapies for Personalized/Precision Medicine</p> <p>Authors: Xinping Cui (University of California, Riverside), Jason Hsu, Song Zhai</p>

Parallel Invited Session 05: Advanced in Complex Data Analysis	
Chair: Yuan Zhang (Renmin University of China) Venue: MD-I 0103	
13:30--13:55	<p>Title: Optimal Reconciliation with Immutable Forecasts</p> <p>Authors: Feng Li (Central University of Finance and Economics)</p>
13:55--14:20	<p>Title: Forecast Combinations: Modern Perspectives and Approaches</p> <p>Authors: Yanfei Kang (Beihang University), Xiaoqian Wang, Bohan Zhang, Li Li, Wei Cao, Xixi Li, Rob Hyndman, Fotios Petropoulos, Feng Li, Anastasios Panagiotelis</p>
14:20--14:45	<p>Title: Accounting for Network Noise in Graph-guided Bayesian Modeling of High-dimensional -omics Data</p> <p>Authors: Wenrui Li, Changgee Chang, Suprateek Kundu, Qi Long (University of Pennsylvania)</p>
14:45--15:10	<p>Title: Scaling Limit of DLA on a Long Line Segment</p> <p>Authors: Eviatar B. Procaccia, Yingxin Mu, Jiayan Ye, Yuan Zhang (Renmin University of China)</p>

Parallel Invited Session 06: Advancement in Statistical Causal Inference and Applications	
Chair: Peng Ding (University of California Berkeley) Venue: MD-I 0106	
13:30--13:55	Title: Interpretable Sensitivity Analysis for the Baron-Kenny Approach to Mediation with Unmeasured Confounding Authors: Peng Ding (University of California Berkeley)
13:55--14:20	Title: Strengthen Causal Inference by Leveraging Genetic Data Authors: Can Yang (The Hong Kong University of Science and Technology)
14:20--14:45	Title: Policy Learning with Asymmetric Utilities Authors: Eli Ben-Michael, Kosuke Imai, Zhichao Jiang (Sun Yat-sen University)
14:45--15:10	Title: Uncertainty Quantification in Synthetic Controls with Staggered Treatment Adoption Authors: Matias Cattaneo , Yingjie Feng (Tsinghua University), Filippo Palomba, Rocio Titiunik

Parallel Invited Session 10: Digital Economy, Digital Life and Statistical Measurement	
Chair: Yilin Wu (Renmin University of China) Venue: MD-B 0402	
13:30--13:55	Title: Mechanism Analysis and Impact Measurement of the Platform Economy's Social Welfare Effect: An Empirical Study based on the Questionnaire Survey of Merchants on MT Take-out Platform Authors: Yuezhou Cai (Chinese Academy of Social Sciences), Yuchen GU
13:55--14:20	Title: The Influence of Digital Finance Development on Bank Efficiency: Evidence from China Authors: Menggen Chen (Beijing Normal University), Qiao Zhang
14:20--14:45	Title: Gig Economy in China: Measurement and Features Authors: Jingping Li (Renmin University of China), Mingze Zhang
14:45--15:10	

Parallel Invited Session 11: Financial Econometrics	
Chair: Ben Wu (Renmin University of China) Venue: MD-M 1037	
13:30--13:55	<p>Title: Some Financial Applications of Dynamic Copulas</p> <p>Authors: Ping Li (Beihang University), Jie Li, Yingwei Han</p>
13:55--14:20	<p>Title: Disclosing and Cooling-Off: An Analysis of Insider Trading Rules</p> <p>Authors: Jun Deng (University of International Business and Economics), Huifeng Pan, Hongjun Yan, Liyan Yang</p>
14:20--14:45	<p>Title: Limiting Behaviour of Realized Covariation in the Presence of Price Staleness</p> <p>Authors: Zhi Liu (University of Macau), Haibin ZHU</p>
14:45--15:10	<p>Title: A Latent Space Model for Bipartite Networks with Applications in Interlocking Directorates in Chinese Companies</p> <p>Authors: Yan Zhang, Feifei Wang, Kuangnan Fang, Rui Pan (Central University of Finance and Economics), Hansheng Wang</p>

Parallel Invited Session 16: Image and Text Data Analysis with Application	
Chair: Qianhan Zeng (Peking University) Venue: MD-I 0207	
13:30--13:55	<p>Title: A Semiparametric Gaussian Mixture Model for Chest CT Based 3D Blood Vessel Reconstruction</p> <p>Authors: Qianhan Zeng (Peking University), Jing Zhou, Ke Xu, Xiao Wang</p>
13:55--14:20	<p>Title: An Ensemble Deep Learning Model for Risk Stratification of Invasive Lung Adenocarcinoma Using Thin-Slice CT</p> <p>Authors: Jing Zhou (Renmin University of China)</p>
14:20--14:45	<p>Title: "This Crime is Not That Crime" — Classification and Evaluation of Four Common Crimes</p> <p>Authors: Ke Xu (University of International Business and Economics), Hangyu Liu, Fang Wang, Hansheng Wang</p>
14:45--15:10	<p>Title: A Geometrical Model with Stochastic Error for Abnormal Motion Detection of Portal Crane Bucket Grab</p> <p>Authors: Baichen Yu, Xiao Wang (Qingdao University), Hansheng Wang</p>

Parallel Invited Session 17: Machine Learning for Functional Data and Causal Inference	
Chair: Yuanyuan Zhang (Soochow University) Venue: MD-I 0304	
13:30--13:55	<p>Title: Distribution Estimation of Contaminated Data via DNN-based MoM-GANs</p> <p>Authors: Huiming Zhang (Beihang University), Fang Xie, Lihu Xu, Qiuran Yao</p>
13:55--14:20	<p>Title: Design-based Theory for Lasso Adjustment in Randomized Block Experiments and Rerandomized Experiments</p> <p>Authors: Ke Zhu (Tsinghua University), Hanzhong Liu, Yuehan Yang</p>
14:20--14:45	<p>Title: Comparison of the Slops in Functional Regression under Arbitrary Transformations</p> <p>Authors: Pratim Guha Niyogi, Subhra Sankar Dhar (IIT Kanpur)</p>
14:45--15:10	<p>Title: Towards Trustworthy Explanation: On Causal Rationalization</p> <p>Authors: Hengrui Cai (University of California Irvine)</p>

Parallel Invited Session 19: MCMC and Clustering	
Chair: Efstathia Bura (TU Wien) Venue: MD-I 0308	
13:30--13:55	<p>Title: Ranking Inferences Based on the Top Choice of Multiway Comparisons</p> <p>Authors: Jianqing Fan, Zhipeng Lou, Weichen Wang (The University of Hong Kong), Mengxin Yu</p>
13:55--14:20	<p>Title: Snake Algorithm: A Rejection-Free Sampler for Binary Matrices with Fixed Margins</p> <p>Authors: Zipei Nie, Guanyang Wang (Rutgers University), Peng Zhang</p>
14:20--14:45	<p>Title: Proximal MCMC for Bayesian Inference of Constrained and Regularized Estimation</p> <p>Authors: Xinkai Zhou (Johns Hopkins University), Eric C. Chi, Qiang Heng, Hua Zhou</p>
14:45--15:10	<p>Title: Bayesian Biclustering and Its Application in Education Data Analysis</p> <p>Authors: Weining Shen (UC Irvine)</p>

Parallel Invited Session 20: Modern Statistical Learning and its Applications to Image Data Analysis	
Chair: Long Feng (University of Hong Kong) Venue: MD-I 0305	
13:30--13:55	<p>Title: Wasserstein Generative Regression</p> <p>Authors: Tong Wang, Shanshan Song, Guohao Shen, Yuanyuan Lin, Jian Huang (The Hong Kong Polytechnic University)</p>
13:55--14:20	<p>Title: Deep Kronecker Network</p> <p>Authors: Long Feng (University of Hong Kong), Guang Yang</p>
14:20--14:45	<p>Title: Ball Impurity: Measuring Heterogeneity in General Metric Spaces</p> <p>Authors: Ting Li (The Hong Kong Polytechnic University)</p>
14:45--15:10	<p>Title: FPLS-DC: Functional partial least squares through distance covariance for imaging genetics</p> <p>Authors: Wenliang Pan (Chinese Academy of Sciences), Yue Shan, Chuang Li, Shuai Huang, Tengfei Li, Yun Li, Hongtu Zhu</p>

Parallel Invited Session 23: New Statistical Learning and Inferences in Data Science Applications	
Chair: Regina Liu (Rutgers University) Venue: MD-I 0204	
13:30--13:55	<p>Title: De-confounding Causal Inference Using Latent Multiple-mediator Pathways</p> <p>Authors: Yubai Yuan (The Pennsylvania State University), Annie Qu</p>
13:55--14:20	<p>Title: Exploring the Causal Relationship between Geriatric Depression and Alzheimer's Disease</p> <p>Authors: Yuexia Zhang (The University of Texas at San Antonio), Yubai Yuan, Fei Xue, Qi Xu, Annie Qu</p>
14:20--14:45	<p>Title: Statistical Inference for Maximin Effects: Identifying Stable Associations across Multiple Studies</p> <p>Authors: Zijian Guo (Rutgers University of USA)</p>
14:45--15:10	<p>Title: Network Community Detection Using Higher-Order Structures</p> <p>Authors: Xianshi Yu, Ji Zhu (University of Michigan)</p>

Parallel Invited Session 25: Recent Advances in Analyzing Complex Structured Data	
Chair: Changcheng Li (Dalian University of Technology) Venue: MD-M 1030	
13:30--13:55	Title: Causal Structural Learning and Application in Epidemiology Authors: Le Bao, Changcheng Li (Dalian University of Technology), Runze Li, Songshan Yang
13:55--14:20	Title: Semi-supervised Estimation of Event Rate with Doubly- censored Survival Data Authors: Yang Wang, Qingning Zhou (University of North Carolina at Charlotte), Xuan Wang, Tianxi Cai
14:20--14:45	Title: Distributed Nonparametric Regression via Prediction-Based Aggregation Authors: Yikai Xu, Zhao Chen (Fudan University), Runze Li
14:45--15:10	Title: Determination of the Effective Cointegration Rank in High-dimensional Time-series Predictive Regressions Authors: Fuyi Fang, Zhaoxing Gao (Zhejiang University), Ruey Tsay

Parallel Invited Session 26: Recent Advances in High Dimensional Statistics	
Chair: Zeng Li (Southern University of Science and Technology) Venue: MD-I 0306	
13:30--13:55	Title: Large-Scale Multiple Testing of Composite Null Hypotheses Under Heteroskedasticity Authors: Bowen Gang (Fudan University), Trambak Banerjee
13:55--14:20	Title: Block-Diagonal Test for High-Dimensional Covariance Matrices Authors: Jiayu Lai, Xiaoyi Wang (Beijing Normal University), Kaige Zhao, Shurong Zheng
14:20--14:45	Title: Robust Estimation of Number of Factors in High Dimensional Factor Modeling via Spearman's rank Correlation Matrix Authors: Jiaxin Qiu, Zeng Li (Southern University of Science and Technology), Jianfeng Yao
14:45--15:10	

Parallel Invited Session 27: Recent Advances of High-Dimensional Inference and Statistical Learning	
Chair: Yandi Shen (University of Chicago) Venue: MD-I 0205	
13:30--13:55	<p>Title: Selecting the Number of Communities for Weighted Networks with Stepwise Variance Profile Scaling</p> <p>Authors: Xiaodong Li (University of California, Davis), Xiaohan Hu</p>
13:55--14:20	<p>Title: Network Regression and Supervised Centrality Estimation</p> <p>Authors: Junhui Cai, Dan Yang (The University of Hong Kong), Wu Zhu, Haipeng Shen, Linda Zhao</p>
14:20--14:45	<p>Title: Empirical Bayes estimation: When does g-modeling beat f-modeling in theory (and in practice)?</p> <p>Authors: Yandi Shen (University of Chicago), Yihong Wu</p>
14:45--15:10	

Parallel Invited Session 28: Some Theories about Deep Neural Networks	
Chair: Qian Lin (Tsinghua University) Venue: MD-M 1016	
13:30--13:55	<p>Title: Generalization Ability of Wide Neural Networks on \mathbb{R}^S</p> <p>Authors: Jianfa Lai (Tsinghua University), Manyun Xu, Rui Chen, Qian Lin</p>
13:55--14:20	<p>Title: ZooD: Exploiting Model Zoo for Out-of-Distribution Generalization</p> <p>Authors: Qishi Dong, Awais Muhammad, Fengwei Zhou, Chuanlong Xie (Beijing Normal University), Tianyang Hu, Yongxin Yang, Sung-Ho Bae, Zhenguo Li</p>
14:20--14:45	<p>Title: Optimality of Wide Neural Networks in Large Dimensions</p> <p>Authors: Weihao Lu (Tsinghua University), Haobo Zhang, Manyun Xu, Qian Lin</p>
14:45--15:10	

Parallel Invited Session 33: Statistics and Machine Learning	
Chair: Wu Wang (Renmin University of China) Venue: MD-B 0401	
13:30--13:55	Title: Reinforcement Learning via Nonparametric Smoothing in a Continuous-Time Stochastic Setting with Noisy Data Authors: Shang Wu (Fudan University)
13:55--14:20	Title: A General Framework for Treatment Effect Estimation in Semi-Supervised and High Dimensional Settings Authors: Abhishek Chakraborty, Guorong Dai (Fudan University), Eric Tchetgen
14:20--14:45	Title: High-Dimensional Dynamic Pricing under Non-Stationarity: Learning and Earning with Change-Point Detection Authors: Feiyu Jiang (Fudan University), Zifeng Zhao, Yi Yu, Xi Chen
14:45--15:10	Title: Change Point Inference for High-Dimensional Linear Models Authors: Bin Liu (Fudan University), Xinsheng Zhang, Yufeng Liu

Parallel Invited Session 35: Statistics in Finance and Risk Management	
Chair: Zhenyan Xiao (Renmin University of China) Venue: MD- M 1031	
13:30--13:55	Title: Research on Nonlinear State-dependent Conditional Risk Premium Estimation Authors: Xiangyu Cui (Shanghai University of Finance and Economics), Guan Zheng, Shi Yun
13:55--14:20	Title: HAR-Itô Models and High-dimensional HAR Modeling for High-frequency Data Authors: Huiling Yuan (East China Normal University)
14:20--14:45	Title: Robust Backtests for Expected Shortfall Authors: Zaichao Du (Fudan University), Xuhui Wang
14:45--15:10	Title: Random Distortion Risk Measures Authors: Xin Zang (Beijing Jiaotong University), Fan Jiang, Chenxi Xia, Jingping Yang

Parallel Invited Session 36: Statistics in Pharmaceutical Industry	
Chair: Shuping Jiang (MRL China of MSD) Venue: MD-I 0307	
13:30--13:55	<p>Title: Be More Efficient? - Weighted Parametric Multiple Test Procedures in Group Sequential Design (WPGSD)</p> <p>Authors: Keaven Anderson, Zifang Guo, Jing Zhao, Yujie Zhao, Qi Liu, Linda Z. Sun (Merck & Co., Inc.)</p>
13:55--14:20	<p>Title: Network and Covariate Adjusted Response-Adaptive Design for Binary Response</p> <p>Authors: Hao Mei (Renmin University of China), Jiaxin Xie, Yichen Qin, Yang Li</p>
14:20--14:45	<p>Title: Unleash the Power of Data - Statistics in the Pharmaceutical Industry: Today and Tomorrow</p> <p>Authors: Hong Tian (BeiGene USA, Inc.)</p>
14:45--15:10	<p>Title: Immortal Time Bias in Real World Data Analysis</p> <p>Authors: Yang Zhao (Nanjing Medical University)</p>

Parallel Invited Session 38: Subsampling Methods for Massive Data Analysis	
Chair: Xuetong Li (Peking University) Venue: MD-B 0301	
13:30--13:55	<p>Title: Distributed Logistic Regression for Massive Data with Rare Events</p> <p>Authors: Xuetong Li (Peking University), Xuening Zhu, Hansheng Wang</p>
13:55--14:20	<p>Title: A Selective Introduction to Design-inspired Subsampling Methods</p> <p>Authors: Jun Yu (Beijing institute of Technology)</p>
14:20--14:45	<p>Title: A Sequential Addressing Subsampling Method for Massive Data Analysis under Memory Constraint</p> <p>Authors: Yingqiu Zhu (University of International Business and Economics), Rui Pan, Baishan Guo, Xuening Zhu, Hansheng Wang</p>
14:45--15:10	<p>Title: Optimal Subsampling Bootstrap for Massive Data</p> <p>Authors: Yingying Ma (Beihang University), Chenlei Leng, Hansheng Wang</p>