Statistics in the Age of AI
Tentative Program*

May 9, 2024 (Thursday)

8:00 – 9:15	Short Course Registration
9:15 – 12:00	**Jing Lei**: Short Course I: Conformal Prediction
12:00 – 1:30	Break
1:30 – 4:15	**Peng Ding:** Short Course II: Causal Inference

May 10, 2024 (Friday)

8:00 – 9:00	Conference Registration
9:00 – 9:10	Opening Remarks by **Pamela Norris**, GW Vice Provost for Research
9:10 – 10:25	**David Donoho**: TBA.
Session I	**Jianqing Fan**: Inferences on mixing probabilities and ranking in mixed-membership models.
	Richard Samworth: Optimal convex M-estimation via score matching.
10:25 – 10:45	Coffee Break
10:45 – 12:00	**Steve Marron**: Object oriented data analysis.
Session II	**Hongyu Zhao**: Foundations models in genomic data analysis.
	Naisyin Wang: Utilizing synthetic components to balance privacy protection and data utility.
12:00 – 1:30	Lunch
1:30 – 2:45	**Qiwei Yao**: Autoregressive networks and some stylized features of network data.
Session III	**Liza Levina**: Flexible and interpretable prediction on networks.
	Grace Yi: Label correction of crowdsourced noisy annotations with an instance-dependent noise transition model.
2:45 – 3:05	Coffee Break
3:05 – 4:20	**Lan Wang**: Doubly robust sequential quantile off-policy inference.
Session IV	**Mei-Ling Ting Lee**: First-hitting-time threshold regression and neural network.
	Byeong Park: Nonparametric causal additive models with smooth backfitting.

4:20 – 5:20 Panel I	**Haoda Fu, Jonas Mueller, Annie Qu, Xiaotong Shen, Judy Wang, Xiao Wang** Statistical Research in the Age of AI

May 11, 2024 (Saturday)

9:00 – 10:15 Session V	**Iain Johnstone**: Expectation propagation and maximum likelihood in generalized linear mixed models.
	Xihong Lin: Build a scalable data science ecosystem using statistics, ML and AI.
	Runze Li: How can statistics help students prepare for better-paid jobs?
10:15 – 10:35	Coffee Break
10:35 – 11:50 Session VI	**Taileng Hsing**: An RKHS approach for variable selection in high-dimensional functional linear models.
	Victor Panaretos: Graphical models in infinite dimensions.
	Yehua Li: Machine learning with functional predictors and applications to crop yield prediction.
12:00 – 2:00	Lunch and Poster Session
2:10 – 3:25 Session VII	**Haiyan Huang:** Integrative deep multi-learning for biclustering and predicting cancer drug responses: leveraging omics and drug molecular data.
	Lily Wang: Functional regression through distributed learning: an application to brain imaging studies.
	Johannes Schimidt-Hieber: A statistical analysis of an image classification problem.
3:25 – 3:45	Coffee Break
3:45 – 4:45 Panel II	**John Aston, Mina Karzand, Xuming He, Tian Zheng, Hongtu Zhu** Statistical Education and Practice in the Age of AI
4:45 – 5:00	Closing Remarks

*: subject to minor changes.