STANFORD SCHOOL OF MEDICINE
Stanford University Medical Center

Center for Innovative Study Design (CISD)

Stanford | SCPKU Stanford Center at Peking University

Workshop on Innovative Statistical Methods in Precision Medicine and Big Data

3/23/2017

北京大学斯坦福中心（SCPKU），北京大学

（Tang Scholar Hall）

- 8:45-9:00 am **Mixing**

- 9:00-9:15 am **Opening Remarks** Professor Tze L. Lai (Stanford University)

- 9:15-11:15 am **Advances on Modern Clinical Trial Design** (Chaired by Jiqian Fang)
    1. Inference on Clinical Trials with Outcomes Truncated by Death, Andrew Zhou (Peking University)
    2. The Contemporary Development of Late Phase Trial Design In China, JieLai Xia (The 4th Military Academy)
    3. TBA, Qin Huang (CFDA)
    4. TBA, Jinbo Yang (CFDA)

- 11:15-12:45pm Lunch Break

- 12:45-2:45pm **Statistical Innovation in Big Data** (Chaired by Lu Tian)
    1. Evaluating Impacts of Three Regional Emission Control Events on Beijing's Air Quality. Songxi Chen (Peking University)
    2. Pairwise Sequential Randomization versus Re-randomization in the era of Big Data, Yang Li (Renmin University)
    3. Detecting structural variation based on high-throughput sequencing, Ruinbin Xi (Peking University)
    4. Identifiability and Inference of Causal Effects with High-Dimensional and Invalid Instruments, Lin Wei (Peking University)

- 2:45-3:00pm **Tea Break**

- 3:00-5:00pm **Applications of Machine Learning in Biomedical Data Science** (Chaired by Ying Lu)
    1. Deep Learning Applications in Medical Imaging, Hao Zou (Tsinghua University)
    2. On Data Monitoring Committee (DMC), Chen Yao (Peking University)
    3. The Sequential Testing for Drug Safety Evaluation, Jie Chen (Merk & Co.)
    4. TBA, Yi Huang (University of Maryland)

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