

2024 Statistical Practice in Cancer Conference Program

Day 1: Friday, February 16 – Moffitt Cancer Center, Stabile Research Building (SRB), Ted and Marty Couch Auditorium

- 8:00-8:30 **REGISTRATION & CONTINENTAL BREAKFAST** – SRB, David Murphey Conference Room
Program will take place in the SRB, Ted & Marty Couch Auditorium unless otherwise noted
- 8:30-8:35 **WELCOME**
INTRODUCTION OF FIRST KEYNOTE SPEAKER
Michael Schell, Moffitt Cancer Center
- 8:35-9:30 **KEYNOTE PRESENTATION**
Sumithra Mandrekar, Mayo Clinic
Analyses Leveraging Data from Alliance-Coordinated Clinical Trials to Inform Design, Conduct, and Endpoints
- 9:30-10:20 **ORAL PRESENTATIONS - PART I – STATISTICAL PRACTICE**
- 9:30-9:50 Penny Reynolds, University of Florida
Preclinical oncology experimental research design: A long-overdue part of Good Statistical Practice
- 9:50-10:10 Tuo Lin, University of Florida
Common misuses of weights in non-randomized studies
- 10:10-10:30 **BREAK**
- 10:30-11:20 **POSTER ELEVATOR TALKS**
- 10:30-10:32 Introduction, Heidi Weiss, University of Kentucky
- 10:32-10:36 Gang Han, Texas A & M University
Bayesian-Frequentist Hybrid Inference in clinical and genomic research applications
- 10:36-10:40 Lingpeng Shan, The Ohio State University
Variable Selection in Bayesian Joint Modeling; Incorporating Heterogeneous Longitudinal Explanatory Variables and a binary outcome
- 10:40-10:44 Derek Li, University of Florida
Understanding Our Catchment Area Using US Census Data
- 10:44-10:48 Sasha Kravets, University of Illinois, Chicago
A Rshiny Applet for Sequential, Multiple Assignment, Randomized Trials with a Survival Final Endpoint
- 10:48-10:52 Jaehee Kim, Duksong Women’s University
Dynamic Functional Connectivity Change-Point Detection with Random Matrix Theory Inference for Epilepsy fMRI data

- 10:52-10:56 Rekha Ramachandran, University of Alabama at Birmingham
Implementation of local data probes geographic variation in cancer survival
- 10:56-11:00 Vishruti Pandya, University of Alabama at Birmingham
Survey of disparities in gynecologic cancer survival outcomes by treatment facility and geographic region
- 11:00-11:04 Pei Zhang, University of Maryland, College Park
Mixed Modeling Approach for Characterizing the Genetic Effects for a Longitudinal Phenotype
- 11:04-11:08 Tengda Lin, Huntsman Cancer Institute, University of Utah
Multi-Omic Network Analysis (MONA), a new tool for integrative omics analysis
- 11:08-11:12 Ning Li, University of Kentucky
Phase I clinical trial designs in oncology: a systematic literature review from 2020 to 2022
- 11:12-11:16 Zachary Thompson, Moffitt Cancer Center
Statistical Analysis Tool for Oncore-Generated Adverse Event (AE) Data
- 11:16-11:20 Michael Schell, Moffitt Cancer Center
Identification and Classification of Highly-Cited Statistical Papers
- 11:20-11:24 Moigan Golzy, University of Missouri
Transition in Health-Related Quality-of-Life among Older Bladder Cancer Patients and its Association with Treatment: A Clustering Approach
- 11:24-11:28 Wenyu Gao, University of North Carolina, Charlotte
BBQ: Better Base Qualities for Next-Generation Sequencing
- 11:28-11:32 Yeonjung Jo, University of Utah
Designing an enrichment clinical trial to investigate prognostic and/or predictive ability of multi-gene risk score in advanced prostate cancer
- 11:32-12:15 **POSTER SESSION** – SRB, 1st Floor Atrium/Foyer
- 12:15-1:00 **LUNCH & NETWORKING** – SRB, 1st Floor Atrium/Foyer
Program will return to the SRB, Ted & Marty Couch Auditorium
- 1:00-1:05 **INTRODUCTION OF SECOND KEYNOTE SPEAKER**
Ji-Hun Lee, University of Florida
- 1:05-2:00 **KEYNOTE PRESENTATION**
Alan Agresti, Distinguished Professor Emeritus, University of Florida
Simple Ways to Interpret Effects in Modeling Binary and Ordinal Data
- 2:00-3:00 **WORKSHOP ON GENOMIC DATA CURATION AND ACCESS**
Samantha Brown, Jessica Lavery, and Katherine Panageas, Memorial Sloan Kettering
Analyzing Clinical and Genomic Oncological Data with the {GENIE BPC} R Package
- 3:00-3:15 **BREAK**

- 3:15-4:15 **DATA MANAGEMENT AND SHARING DISCUSSION WITH HEATHER BASEHORE**
(Moderator: Leslie Cope, Johns Hopkins University)
Heather Basehore, NCI Office of Data Sharing
The NIH Data Management and Sharing Plan at One Year Since Implementation: Lessons (Being) Learned for Cancer Research
- 4:15-4:30 **BREAK**
- 4:30-5:20 **ORAL PRESENTATIONS - PART II – CLINICAL TRIALS**
- 4:30-4:50 Yingjie Qiu, Indiana University
UFO: A Utility-based Model Free Phase I/II Dose Optimization Design for Immunotherapy Trials
- 4:50-5:10 Heather Gunn, Mayo Clinic
Sample Size Re-Estimation in Cluster-Randomized Trials: A Multilevel Problem
- 5:10-5:30 Vivien Yin, Moffitt Cancer Center
Hierarchical Bayesian Clustering Design of Multiple Biomarker Subgroups
- 5:30-6:00 **NETWORKING AND TRIVIA GAME– SRB, 1st Floor Atrium/Foyer**
- 6:00-8:00 **DINNER** (Hosted by Moffitt Cancer Center) – SRB, 1st Floor Atrium/Foyer
The Heart of the Sun band, led by Jose Laborde, Moffitt Cancer Center

Day 2: Saturday, February 17 – Moffitt Cancer Center, Stabile Research Building (SRB), Ted and Marty Couch Auditorium

- 8:00-8:30 **CONTINENTAL BREAKFAST** – SRB, David Murphey Conference Room
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- 8:30-8:35 **INTRODUCTION OF THIRD KEYNOTE SPEAKER**
Jack Lee, M. D. Anderson Cancer Center
- 8:35-9:30 **KEYNOTE PRESENTATION**
Yang Xie, University of Texas Southwestern
Data Science and AI in Cancer Research
- 9:30-10:20 **PANEL DISCUSSION**
Moderator: Amanda Blackford, Johns Hopkins University
Panelists: Derek Li, University of Florida; Yang Xie, University of Texas Southwestern;
Sejong Bae, University of Alabama, Birmingham
Topic: Issues on the Use of AI/ChatGPT Information in Biostatistics
- 10:20-10:30 **Break**
- 10:30-12:00 **ORAL PRESENTATIONS – PART III**
- 10:30-10:50 Cheng Cheng, St. Jude Children’s Research Hospital
Genomic Determination Index and Multi-omics Integrated Association Analysis
- 10:50-11:10 Haolin Li, UNC-Chapel Hill
Design and Analysis of Clinical Trials with Survival Outcome by Incorporating Pre-Randomization Longitudinal Biomarkers
- 11:10-11:30 Kayeromi Gomez, Loyola Medicine Cancer Center
Practical steps for a successful literature search and writing
- 11:30-11:50 Yinghao Pan, UNC-Charlotte
A semiparametric Cox-Aalen transformation model with censored data
- 11:50-12:00 **CLOSING**