Seventy-Seventh (77th) Annual Deming Conference on Applied Statistics
Tropicana Casino and Resort, Havana Tower, Atlantic City, NJ
Sponsored by the Biopharmaceutical Section of the ASA and the Deming Conference Organization

Sunday December 5, 2021 Registration: 6:00 ⇒ 7:30 PM and Reception 7:00 ⇒ 8:00 PM

Monday December 6, 2021 Registration: 6:30 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM / Morning Sessions 9:00 AM ⇒ 12:00 PM

8:00 ⇒ 9:00 AM What is Translational Biostatistics and How to Implement It? Prof. L. J. Wei, Harvard University
Moderator: Pinggao Zhang

Session A	Session B
Semiparametric Regression Analysis of Interval-Censored Data	**Precision Gains in Randomized Studies Using Covariate Adjustment With Ordinal and Time-To-Event Endpoints**
Danyu Lin, UNC-Chapel Hill Moderator: Wenjin Wang	Ivan Diaz, Cornell University Moderator: Kalyan Ghosh

Lunch (On Your Own) 12:00 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 4:45 PM

Session C ♣	Session D ♣
Group Sequential Design (GSDESIGN) and Non-Proportional Hazard	**Marginal Models in Analysis of Correlated Binary Data with Time-Dependent Covariates in Biomedical Clinical Trials 📖**
Keaven Anderson, Yilong Zhang and Xiao Nan, Merck & Co. Inc Moderator: Bill Wang	Jeffrey R. Wilson, Arizona State University and Din Chen, UNC-Chapel Hill Moderator: Walter R. Young

7:00 PM Speaker's and Awards Dinner (Optional Added Fee Event**)**

Tuesday December 7. 2021 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM / Morning Sessions 9:00 AM ⇒ 12:15 PM

8:00 ⇒ 9:00 AM Multiple Imputation and Missing Data, Prof. Stef van Buuren, University of Utrecht, Holland
Moderator: Alfred H. Balch

Session E ♣	Session F ♣
Principles for Covariate Adjustment in Analyzing Randomized Clinical Trials	**C'mon in … The DOOR is Open: Pragmatic Benefit:Risk Evaluation Using Outcomes to Analyze Patients Rather than Patients to Analyze Outcomes**
Shao Jun, University of Wisconsin - Madison Moderator: Naitee Ting	Scott Evans and Toshimitsu Hamasaki, George Washington University Moderator: Bill Wang

Lunch (On Your Own) 12:15 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 4:45 PM

Session G ♣	Session H ♣
Beyond Bonferroni Correction – Innovation, Intuition and Common Sense	**Extracting Real-World Evidence from Real-World Data**
Qian Helen Li, BMS Moderator: Naitee Ting	Rebecca Hubbard, University of Pennsylvania Moderator: Kalyan Ghosh

Wednesday December 8, 2021 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM / Morning Sessions 9:00 ⇒ 12:15 PM

8:00 ⇒ 9:00 AM Missing Data, Prof. Rod Little, University of Michigan
Moderator Alfred H. Balch

Session I ♣	Session J ♣
Missing Data In Clinical Studies	**Robust Methods for Assessment of Average and Scaled Average Bioequivalence**
Rod Little, University of Michigan Moderator: Alfred H. Balch	Divan Burger, University of Pretoria, South Africa Moderator: Din Chen

Lunch (On Your Own) 12:15 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 5PM

Session K	Session L
PROC BGLIMM and MCMC for Bayesian Analysis	**Statistical Analyses Targeting Estimands**
Walter Stroup, University of Nebraska Moderator: Alfred H. Balch	Frank Bretz and Dong Xi, Novartis Moderator: Ivan S F Chan

Thursday December 9, 2021 Short Course Registration: 6:30 ⇒ 8:00 AM and Hot Breakfast: 7:00 ⇒ 7:50 AM

**8:00⇒9:30 Lecture / 9:30⇒9:50 *Break* / 9:50⇒11:20 Lecture / 11:20⇒12:40 *Lunch on Your Own* / 12:40⇒2:10 Lecture /
2:10⇒2:30 *Break* / 2:30⇒4:00 Lecture / 4:00⇒4:20 *Break* / 4:20⇒5:00 Lecture**

Estimands, Missing Data Handling and Bayesian Methods for Clinical Trials 📖	Multiple Imputation in Practice 📖
Frank Liu, Merck & Co. Inc and Fang Chen, SAS® Moderator: Ivan S. F. Chan	Stef van Buuren and Gerko Vink, University of Utrecht, Holland Moderator: Alfred H. Balch

Friday December 10, 2021 Short Courses Continue and Hot Breakfast: 7:00 ⇒ 7:50 AM

8:00 - 9:30 Lecture / 9:30 - 9:50 Break / 9:50 - 11:20 Lecture / 11:20 - 11:40 Break / 11:40 - 1:10 Lecture

All tutorial and short course titles, presenters and moderators from 1970 onward are on www.demingconference.org
📖 Session is based on a recently published text that is available either for a discounted price or is included in the price of the short course registration
♣ Sessions will have their breaks extended by 15 minutes for Poster Presentations