

**Seventy-Seventh (77<sup>th</sup>) Annual Deming Conference on Applied Statistics**  
**Tropicana Casino and Resort, Havana Tower, Atlantic City, NJ**  
**Sponsored by the Biopharmaceutical Section of the ASA, International Chinese Statistical Association, 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

<p align="center"><b>Session A</b>  <b>Semiparametric Regression Analysis of Interval-Censored Data</b></p> <p align="center">Danyu Lin, University of North Carolina @ Chapel Hill  Moderator: Wenjin Wang</p>	<p align="center"><b>Session B</b>  <b>Precision Gains in Randomized Studies Using Covariate Adjustment With Ordinal and Time-To-Event Endpoints</b></p> <p align="center">Iván Díaz, Cornell University  Moderator: Kalyan Ghosh</p>
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Lunch (On Your Own) 12:00 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 4:45 PM

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

<p align="center"><b>Session E ♣</b>  <b>Principles for Covariate Adjustment in Analyzing Randomized Clinical Trials</b></p> <p align="center">Shao Jun, University of Wisconsin – Madison and Ting Ye, University of Washington  Moderator: Naitee Ting</p>	<p align="center"><b>Session F ♣</b>  <b>C'mon in ... The DOOR is Open: Pragmatic Benefit:Risk Evaluation Using Outcomes to Analyze Patients Rather than Patients to Analyze Outcomes</b></p> <p align="center">Scott Evans and Toshimitsu Hamasaki, George Washington University  Moderator: Bill Wang</p>
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Lunch (On Your Own) 12:15 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 4:45 PM

<p align="center"><b>Session G ♣</b>  <b>Beyond Bonferroni Correction – Innovation, Intuition and Common Sense</b></p> <p align="center">Qian Helen Li, BMS  Moderator: Naitee Ting</p>	<p align="center"><b>Session H ♣</b>  <b>Extracting Real-World Evidence from Real-World Data</b></p> <p align="center">Rebecca Hubbard, University of Pennsylvania and Xu Shi, University of Michigan  Moderator: Kalyan Ghosh</p>
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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 Two Key Ideas in Missing Data – Missing at Random and Response Propensity, Prof. Rod Little, University of Michigan  
Moderator Alfred H. Balch

<p align="center"><b>Session I ♣</b>  <b>The Treatment of Missing Data in Clinical Trials</b></p> <p align="center">Rod Little, University of Michigan  Moderator: Alfred H. Balch</p>	<p align="center"><b>Session J ♣</b>  <b>Robust Methods for Assessment of Average and Scaled Average Bioequivalence</b></p> <p align="center">Divan Burger, University of Pretoria, South Africa  Moderator: Din Chen</p>
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Lunch (On Your Own) 12:15 ⇒ 1:30 PM / Afternoon Sessions 1:30 ⇒ 5PM

<p align="center"><b>Session K </b>  <b>Using SAS PROC BGLIMM and MCMC for Bayesian Analysis of Mixed Models</b></p> <p align="center">Walter Stroup, University of Nebraska  Moderator: Alfred H. Balch</p>	<p align="center"><b>Session L</b>  <b>Statistical Analyses Targeting Estimands</b></p> <p align="center">Frank Bretz and Dong Xi, Novartis  Moderator: Ivan S F Chan</p>
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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

<p align="center"><b>Estimands, Missing Data Handling, and Bayesian Methods for Clinical Trials</b></p> <p align="center">Frank Liu, Merck &amp; Co. Inc and Fang Chen, SAS® Institute Inc.  Moderator: Ivan S. F. Chan</p>	<p align="center"><b>Multiple Imputation in Practice</b> </p> <p align="center">Stef van Buuren and Gerko Vink, University of Utrecht, Holland  Moderator: Alfred H. Balch</p>
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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](http://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