

Seventy Eighth (78th) Annual Deming Conference on Applied Statistics
Sonesta Philadelphia Rittenhouse Square, 1800 Market St, Philadelphia, PA
Sponsored by the Biopharmaceutical Section of the ASA and the Deming Conference Organization

Sunday December 4, 2022 Registration: 6:00 ⇒ 7:30 PM and Reception 7:00 ⇒ 8:00 PM

Monday December 5, 2022 Registration: 6:30 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

8:00 ⇒ 9:00 AM Keynote: Walter Young Memorial Session
Moderator: Alfred H. Balch

<p align="center">Session A</p> <p align="center">Hybrid Frequentist / Bayesian Power and Bayesian Power in Planning Clinical Trials 📖</p> <p align="center">Andy P. Grieve Moderator: Din Chen</p>	<p align="center">Session B</p> <p align="center">Spatial Data Science Meets Bayesian Modeling and Inference</p> <p align="center">Sudipto Banerjee, UCLA Moderator: Naitee Ting</p>
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Lunch (On Your Own) 12:15 ⇒ 1:30 PM

<p align="center">Session C ♣</p> <p align="center">Incorporating Uncertainty in Power Considerations of Clinical Trials with Applications on Equivalence Trials</p> <p align="center">Arne Ring, Sandoz, and Rachid El-Galta, Sandoz Moderator: Din Chen</p>	<p align="center">Session D ♣</p> <p align="center">Bayesian sample size determination methods for hypotheses testing 📖</p> <p align="center">Fei Wang and Sujit K. Ghosh Moderator: Naitee Ting</p>
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7:00 PM Speaker's and Awards Dinner (Optional Added Fee Event)

Tuesday December 6, 2022 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

8:00 ⇒ 9:00 AM: Keynote: COVID 19 vaccine trials and related data monitoring issues es by Susan Ellenberg, University of Pennsylvania
Moderator: Ivan S. F. Chan

<p align="center">Session E ♣</p> <p align="center">Statistical Topics in Outcomes Research: Patient-Reported Outcomes, Meta-Analysis, and Health Economics 📖</p> <p align="center">Joseph C. Cappelleri, Pfizer Inc Moderator: Wenjin Wang</p>	<p align="center">Session F ♣</p> <p align="center">Adjust Overall Survival in randomized clinical trials with treatment switching</p> <p align="center">Songzi Li and Jiang Li, BeiGene USA Inc. Moderator: Jingjing Ye</p>
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Lunch (On Your Own) 12:15 ⇒ 1:30 PM

<p align="center">Session G</p> <p align="center">Estimand in real-world setting and targeted learning in generating and evaluating real-world evidence</p> <p align="center">Jie Chen, Susan Gruber Moderator: Weili He</p>	<p align="center">Session H</p> <p align="center">Statistical Translation of Extrapolation: a tutorial for demonstrating efficacy and safety of investigational medicines in pediatric populations</p> <p align="center">James Travis, FDA; Margaret Gamalo, Pfizer; Jingjing Ye, BeiGene Moderator: Jingjing Ye</p>
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Wednesday December 7, 2022 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

8:00 ⇒ 9:00 AM: Keynote: TBD
Moderator:

<p align="center">Session I ♣</p> <p align="center">MICE and Multiple Imputation</p> <p align="center">Stef van Buren Moderator: Alfred H. Balch</p>	<p align="center">Session J ♣</p> <p align="center">Machine Learning for Statisticians</p> <p align="center">Andy Liaw, Junshui Ma, Merck & Co., Inc Moderator: Ivan S. F. Chan</p>
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Lunch (On Your Own) 12:15 ⇒ 1:30 PM

<p align="center">Session K</p> <p align="center">TBD</p> <p align="center">Moderator: Alfred H. Balch</p>	<p align="center">Session L</p> <p align="center">Safety/Benefit-Risk Evaluation - Practical and Interdisciplinary Approaches</p> <p align="center">Jim Buchanan, Melvin Munsaka, Judy Li and Bill Wang Moderator: Ivan S. F. Chan</p>
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Thursday December 8, 2022 Registration: 6:30 ⇒ 8:00 AM and Hot Breakfast: 7:00 ⇒ 7:50 AM

Short Course 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">Multiple Imputation and SAS 📖</p> <p align="center">Professor Rod Little, University of Michigan Moderator: Alfred H. Balch</p>	<p align="center">Multi-regional Clinical Development and Safety/Benefit-Risk evaluation 📖</p> <p align="center">Bruce Binkowitz, Gang Li, Jim Buchanan, Melvin Munsaka, Judy Li and Bill Wang Moderator: Ivan S. F. Chan</p>
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Friday December 9, 2022 Hot Breakfast: 7:00 ⇒ 7:50 AM

Short Course (Continued) 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 onwards 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