

Seventy Eighth (79th) 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 3, 2023 Registration: 6:00 ⇒ 7:30 PM and Reception 7:00 ⇒ 8:00 PM

Monday December 4, 2023 Registration: 6:30 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

8:00 ⇒ 9:00 AM Keynote: The Power of AI, Data Sciences, and Technology in Drug Development, Venkat Sethuraman, Bristol Myers Squibb
Moderator: Ivan S. F. Chan

<p align="center">Session A (9am-12pm) An Introduction to Machine Learning Methods for Optimal Dynamic Treatment Decisions in Precision Medicine Prof. Donglin Zheng, UNC and Prof. Yuanjia Wang, Columbia University Moderator: Kalyan Ghosh</p>	<p align="center">Session B (9am-12pm) Evaluating Predictive Accuracy of Survival Models Using the ROC Curve and Related Measures in Clinical Trial Applications Kassu Mehari Beyene and Ding-Geng (Din) Chen, ASU Moderator: Alfred H. Balch</p>
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Lunch (On Your Own) 12:00 ⇒ 2:00 PM

<p align="center">Session C ♣ (2pm-5pm) Cell and Gene Therapy: Introduction and Overview of Important Regulatory, Statistical and Operational Considerations Shihua Wen, Novartis and Patricia Anderson, ICON Moderator: Ivan S. F. Chan</p>	<p align="center">Session D ♣ (2-5pm) Bayesian semi-parametric approaches to exposure-response modeling with time-to-event outcomes Tim Waterhouse, Statistics Metrum Research Group Moderator: Alfred H. Balch</p>
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7:00 PM Speaker's and Awards Dinner (Optional Added Fee Event)

Tuesday December 5, 2022 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

2:00 ⇒ 3:00 PM: Keynote: Interpreting Deep Neural Networks towards Trustworthy AI, Prof. Bin Yu, UC Berkeley
Moderator: Alfred H. Balch

<p align="center">Session E ♣v(8am-11pm) Leveraging Real-World Data in Medical Product Clinical Trials Design and Analysis Chenguang Wang, Regeneron Moderator: Naitee Ting</p>	<p align="center">Session F ♣ (8am-11pm) Subgroup Analysis and Causal Inference with Application in Medical Research Prof. Menggang Yu, University of Wisconsin-Madison Moderator: William Wang</p>
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Lunch (On Your Own) 12:00 ⇒ 2:00 PM

<p align="center">Session G (11am-12pm, 3pm-5pm) Credible Causal Inference via Negative controls and Proxies Prof. Eric J. Tchetgen, University of Pennsylvania Moderator: Weili He</p>	<p align="center">Session H (11am-12pm, 3pm-5pm) Win statistics (win ratio, win odds and net benefit): introduction, properties, implementations, and applications Gaohong Dong, BeiGene and Margaret (Meg) Gamalo, Pfizer Moderator: Jingjing Ye</p>
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Wednesday December 6, 2022 Registration: 7:00 ⇒ 8:00 AM and Hot Breakfast 7:00 ⇒ 7:50 AM

8:00 ⇒ 9:00 AM: Keynote: Deming's Contributions and Big Data, Prof. David Banks, Duke University
Moderator: Alfred H. Balch


<p align="center">Session I ♣ (9am-12pm) Statistical Strategies and Practical Considerations for Dose Optimization Prof. Ying Yuan, University of Texas, MD Anderson Cancer Center Moderator: Jerry Li</p>	<p align="center">Session J ♣ (9am-12pm) Bayesian Adaptive Statistical Approaches for Accelerating Drug and Medical Device Approvals in Rare Disease Bradley P. Carlin, PharmaLex - US Moderator: Din Chen</p>
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Lunch (On Your Own) 12:00 ⇒ 2:00 PM

<p align="center">Session K (2pm-5pm) Introduction to Adaptive Design Methods for Dose and Treatment Selection Prof. Haitao Pan, St. Jude Children's Research Hospital Moderator: Naitee Ting</p>	<p align="center">Session L (2pm-5pm) Enhancing Treatment Effect Assessment through Covariate Adjustment Methods Margaret Gamalo, Jinma Ren, Wenjin Wang, Pfizer Inc Moderator: Li-An Xu</p>
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Thursday December 7, 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">Real-world Evidence in Medical Product Development  Weili He, Yixin Fang, and Hongwei Wang, Abbvie Moderator: Jerry Li</p>	<p align="center">Statistical Analysis with Missing Data Prof. Rod Little, University of Michigan, and Prof. Qixuan Chen, Columbia University Moderator: Alfred H. Balch</p>
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Friday December 8, 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