

May 11-15, 2025

Gainesville, Florida, USA

	Sunday, May 11, 2025
4:00pm-6:00pm	Registration Open and Poster & Sponsor Display Set Up [Hotel Indigo Gainesville - Prefunction Space]
	Monday, May 12, 2025
7:30am-5:00pm	Registration Open and Poster & Sponsor Display Set Up [Hotel Indigo Gainesville - Prefunction Space]
8:30am-5:00pm	Optional Workshop - Multi-Omics Integration for Applied Prediction, Concepts, Foundations, and Strategies Workshop Instructor: Diego Jarquin, University of Florida, United States
10:00am-10:30am	Morning Break and Networking (Workshop Attendees Only) [Hotel Indigo Gainesville - Prefunction Space]
12:00pm-1:00pm	Group Luncheon (Workshop Attendees Only) [Hotel Indigo Gainesville - Celebration Ballroom & Prefunction Space]
2:30pm-3:00pm	Afternoon Break and Networking (Workshop Attendees Only) [Hotel Indian Gainesville - Prefunction Space]

[Hotel Indigo Gainesville - Prefunction Space]

	Tuesday, May 13, 2025
7:30am-4:30pm	Registration Open
	[Hotel Indigo Gainesville - Prefunction Space] Morning Refreshments
7:30am-8:30am	[Hotel Indigo Gainesville - Celebration Ballroom & Prefunction Space]
8:30am-10:00am	Welcome Remarks & Keynote Speaker [Hotel Indigo Gainesville - Celebration Ballroom]
8:30am	Welcome Remarks Edzard van Santen - 2025 Conference Chair, <i>University of Florida</i> , United States
8:40am	Welcome to the University of Florida Dr. Katie Migliaccio - Dean of the College of Agriculture and Life Sciences, University of Florida, United States
8:50am	Multi-Omics Integration for Applied Prediction, Concepts, Foundations, and Strategies Keynote Speaker - Diego Jarquin, University of Florida, United States
10:00am-10:30am	Morning Break and Networking [Hotel Indigo Gainesville - Prefunction Space]
10:30am-12:00pm	Session 1: Data Quality and Data Generation [Hotel Indigo Gainesville - Celebration Ballroom] Moderator: Simon Riley, University of Florida
10:30am	The Importance of Data Quality Julian Garcia-Abadillo*, Universidad Politécnica de Madrid and University of Florida, Spain
11:00am	Generating High-Quality Simulated Data Using Process-Based Crop Models for Al Applications Rishabh Gupta, University of Florida, United States
11:30am	Quantifying the Sensitivity of Land Use Land Cover Metrics Through Simulation Techniques Brennan Bean, Utah State University, United States
11:50am	Discussion & 3-minute Poster Introductions
12:00pm-1:00pm	Group Luncheon [Hotel Indigo Gainesville - Celebration Ballroom & Prefunction Space]
1:00pm-2:30pm	Session 2: General Session [Hotel Indigo Gainesville - Celebration Ballroom]
1:00pm	Moderator: Edzard van Santen, University of Florida Random Regression Finlay-Wilkinson Models for Yield and Stability Prediction in Cereals Lucia Gutierrez, University of Wisconsin-Madison, United States
1:20pm	Conditional Simulation of Gaussian Fields Somak Dutta, Iowa State University, United States
1:40pm	Measuring Spatial Consistency in Simulated Crop Yield with Tensor-Product Splines and Interclass Correlation Payton Miloser*, Iowa State University, United States
2:00pm	Using Segmented Regression to Estimate Decay of Curve in Seismic Data Rebekah Scott*, Iowa State University, United States
2:20pm	Discussion & 3-minute Poster Introductions
2:30pm-3:00pm	Afternoon Break and Networking [Hotel Indigo Gainesville - Prefunction Space]
3:00pm-4:30pm	Session 3: General Session [Hotel Indigo Gainesville - Celebration Ballroom] Moderator: Edzard van Santen, University of Florida
3:00pm	Improving Wheat Genomic Prediction Through Random Regression and Optimized Sowing Dates Pablo Gonzalez Barrios, Universidad de la República, Uruguay
3:20pm	Estimating Genetic Gain – Correctly, Poorly, or Badly? Philip Dixon, Iowa State University, United States
3:40pm	Assessing the Efficiency and Heritability of Blocked Tree Breeding Trials Hans-Peter Piepho, Universität Hohenheim, Germany
4:00pm	Combining Genomic Prediction and Machine Learning Approaches to Improve Genotype Recommendations Vitor Sagae*, University of Florida, United States
4:20pm	Discussion & 3-minute Poster Introductions
4:30pm-5:30pm	Poster Session [Hotel Indigo Gainesville - Prefunction Space]
6:00pm-8:00pm	Networking Reception & Line Dancing Event [Location TBD]

	Wednesday, May 14, 2025
8:30am-4:50pm	Registration Open [Hotel Indigo Gainesville - Prefunction Space]
8:30am-12:00pm	Session 4 (Special Session): Best Practices for GLMM Implementation: Hard-Won Lessons and Ongoing Struggles [Hotel Indigo Gainesville - Celebration Ballroom]
	Moderator: Hans-Peter Piepho, Universität Hohenheim
8:30am	Best Practices for GLMM Implementation: Setting the Stage Nora Bello, USDA-ARS, United States - and- Walter Stroup, University of Nebraska-Lincoln, United States
8:50am	Allowing Negative Variance Component Estimates in REML: Inferential Consequences for Fixed Effects and Type I Error Control Reka Howard, University of Nebraska-Lincoln, United States
9:10am	Correlated Binomial Data: A Confluence of Analytic Challenges Nora Bello, USDA-ARS, United States
9:30am	Mixed Models-Based Precision and Power Analyses for Design Comparisons Using PROC GLIMMIX and glmmTMB Daniel Palmer, USDA-ARS, United States
9:50am-10:30am	GLMM Implementation Poster Viewing and AM Break [Hotel Indigo Gainesville - Prefunction Space]
10:30am	Multinomial Logistic GLMMs: A Patchy Landscape of Software Implementations Quentin Read, USDA-ARS, United States
10:50am	Using Randomized Quantile Residuals to Assess Model Fit of Generalized Linear Mixed Models Julia Piaskowski , <i>University of Idaho</i> , United States
11:10am	Wrap-Up & Open Floor Discussion Nora Bello, USDA-ARS, United States - and- Walter Stroup, University of Nebraska-Lincoln, United States
11:30am	Panel Discussion
12:00pm-1:00pm	Group Luncheon [Hotel Indigo Gainesville - Celebration Ballroom & Prefunction Space]
	Session 5: Al and Statistical Consulting
1:00pm-2:30pm	[Hotel Indigo Gainesville - Celebration Ballroom] Moderator: Julia Piaskowski, University of Idaho
1:00pm	Launching and Sustaining Statistical and Data Science Consulting: Planning and Assessing for Success Mara Rojeski Blake & Emily Griffith, North Carolina State University, United States
1:30pm	How Are Large Language Models Changing the Analytics Industry? James Long, Palomar Speciality Insurance, United States
2:00pm	Discussion
2:30pm-3:00pm	Afternoon Break and Networking
2.00pm 0.00pm	[Hotel Indigo Gainesville - Prefunction Space] Session 6: General Session
3:00pm-4:50pm	[Hotel Indigo Gainesville - Celebration Ballroom]
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3:00pm	Sample Size for Estimating Disease Prevalence in Free-Ranging Wildlife Populations: A Bayesian Modeling Approach James Booth, Cornell University, United States
3:20pm	Bayesian Hierarchical Modeling of Fusarium Head Blight Epidemics Using Zero-Inflated Data and Environmental Covariates Wanderson Bucker Moraes, Corteva Agriscience and The Ohio State University, United States
3:40pm	Generalized Foldover Designs: A Class of Designs for Irregular Fractional Factorial Experiments with Bias Protection Properties Vinny Paris*, Iowa State University, United States
4:00pm	EoA Models: Is Partially Combining Data from Multiple Sites Useful for Estimating Bat Mortality Rates in Wind Farms? Natalia Berberian*, Universidad de la República, Uruguay
4:20pm	ANOVA P-Values and Confidence Sets via Monte Carlo Simulation Benjamin Jacobs*, Iowa State University, United States
4:40pm	Discussion

	Thursday, May 15, 2025
7:30am-11:30am	Registration Open [Hotel Indigo Gainesville - Prefunction Space]
7:30am-8:30am	Breakfast Buffet [Hotel Indigo Gainesville - Celebration Ballroom & Prefunction Space]
8:30am-10:00am	Session 7: General Session [Hotel Indigo Gainesville - Celebration Ballroom]
	Moderator: Reka Howard, University of Nebraska-Lincoln
8:30am	Using Historical Control Data to Assess Study Quality for Medaka Extended One Generation Reproduction Test (MEOGRT) Yushan Gu , Corteva Agriscience, United States
8:50am	Quantifying Irrigation Influence on Crop Likelihood in the Central and Eastern U.S. Lokendra Rathore , <i>Emory University</i> , United States
9:10am	Determinants of Smallholder Rice Farmers' Willingness-To-Pay for Private Extension Services in Liberia: The Case of Gibi District Togba Sumo, University of Nairobi, Kenya
9:30pm	Using Generative Artificial Intelligence to Convert Legacy Statistical Code Linda Young, USDA-NASS, United States
9:50pm	Discussion
10:00am-10:15am	Stretch Break and Poster & Sponsor Display Breakdown [Hotel Indigo Gainesville - Prefunction Space]
10:15am-10:55am	Session 8: General Session [Hotel Indigo Gainesville - Celebration Ballroom]
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10:15am	Artificial Intelligence for Nature-Related Financial Disclosures Xiao Xu, University of New South Wales, Australia
10:35am	Canonical Discriminant Analysis – A Multivariate Technique You Didn't Think You Needed Edzard van Santen, University of Florida, United States
10:55am	Student Competition Awards and Closing Remarks
11:30am	Conference Concludes