

IISA Conference 2025 Program Book

Jointly organized by:
International Indian Statistical
Association and
Department of Statistics
Institute of Agriculture and Natural
Resources
University of Nebraska-Lincoln

June 12 - June 15, 2025
Nebraska East Union
University of Nebraska-Lincoln
IISA2025@intindstat.org



At a Glance

General Information

- All talks, presentations, and breaks are in the East Campus Union.
- There is a bus service on Thursday, Friday, and partly on Saturday to and from the ECU and downtown (the Graduate).
- There will be some shuttle service and volunteer drivers to help transport attendees to and from the conference.
- Saturday and Sunday transportation will be mainly via hotel shuttles, volunteer drivers, and other private services (Uber, Lyft, etc.)
- For those with their own vehicles, there are multiple parking lots near the main entrance to the ECU. Parking passes will be made available.

Programme Overview

Thursday June 12

Time: 08:30 - 9:00

Conference Inauguration

Plains A

Time: 09:15 - 10:15

Plenary Lecture 1 Debashis Ghosh

Plains A

Time : 10:15 - 10:30 Coffee Break

Venue: Foyer

Time: 10:30 - 12:00

Panel Discussion 1 Women in Statistics: Breaking Barriers and Shaping the Future

Plains A

01.M2.I1 Interpretable Machine Learning

Plains B

01.M2.I2 Recent Developments in Statistical Inference

Plains C

01.M2.I3 Optimal Transport: Recent Advances in Machine Learning and Statistics

Prairie A

01.M2.I4 Recent Development in Survival Analysis with Biomedical Applications

Prairie B

Student Paper Competition 1 Probability and Theory of Statistics and Data Sciences

Prairie C

Student Paper Competition 2 Application of Statistics and Data Sciences

Arbor

Time : 12:00 - 13:30 Lunch

Venue: East Campus Dining Center

Time: 13:30 - 14:30

Time : 14:30 - 14:45 Short Break No Coffee

Time: 14:45 - 18:00

Student Poster Competition

Foyer

Time: 14:45 - 16:15

Special Invited Session 1 Bo Li, Yongming Qu

Plains A

01.A1.I5 Harnessing AI and Advanced Analytics in Clinical Development: From Insights to Innovation **Plains B**

01.A1.I6 New Advances in Causal Inference **Plains C**

01.A1.I7 High-dimensional data in theory and applications **Prairie A**

01.A1.I8 Networks and Graphical Models **Prairie B**

01.A1.I9 Enhancing Clarity and Decision-Making in Data Science: From Environmental Clustering to AI in Genomics **Prairie C**

01.A1.I10 Recent Advances in Bayesian Methods **Arbor**

01.A1.I11 Advances in Bayesian Spatio-temporal and Extreme Value Modeling **Garden**

Time : 16:15 - 16:30 Coffee Break

Venue: Foyer

Time: 16:30 - 18:00

01.E1.I12 Advances in uncertainty quantification in Machine Learning **Plains A**

01.E1.I13 Innovative Statistical and AI Approaches in Public Health and Behavioral Research **Plains B**

01.E1.I14 Recent advances in observational studies **Plains C**

01.E1.I15 Recent advances in high-dimensional statistics and inference **Prairie A**

01.E1.I16 Processes on Networks **Prairie B**

01.E1.I17 Recent advances in high-dimensional learning **Prairie C**

01.E1.I18 Approximate algorithms for complex Bayesian problems **Arbor**

01.E1.I19 Design and Optimization **Garden**

Friday June 13

Time: 9:00 - 12:30

Short Course 1 Boosting R Code performance via C++ Integration within Rstudio

Garden

Time: 9:00 - 10:30

02.M1.I20 Dr. Riten Mitra Memorial Session **Plains A**

02.M1.I21 Statistical Methods for Networks, Tensors, and Beyond **Plains B**

02.M1.I22 Recent advances in causal inference **Plains C**

02.M1.I23 Advances in Bias Correction, Robust Clustering, and Indirect Comparisons in Observational Studies **Prairie A**

02.M1.C1 High dimensional data in Theory and Applications **Prairie B**

02.M1.I24	Statistics and Generative AI	Prairie C
02.M1.I25	Modern Bayesian methods for public health	Arbor

Time : 10:30 - 10:45 **Coffee Break**

Venue: Foyer

Time: 10:45 - 12:15

Special Invited Session 2	Adityanand Guntuboyina, Kengo Kato	Plains A
Panel Discussion 2	The Future of Statistics in This New World of AI	Plains B
02.M2.I26	Assumption-lean Inference	Plains C
02.M2.I27	AI-Driven Innovations in Statistical Analysis and Clinical Trial Design	Prairie A
02.M2.I28	Statistics in Bioinformatics and Genetics	Prairie B
02.M2.I29	Iterative methods in statistical machine learning	Prairie C
02.M2.I30	Bayesian Structure Learning with Dependent Data	Arbor

Time : 12:15 - 13:30 **Lunch**

Venue: East Campus Dining Center

Time: 13:30 - 14:30

Plenary Lecture 2	Linda Young	Plains A
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Time: 14:30 - 14:45 **Short Break No Coffee**

Time: 14:45 - 16:15

Special Invited Session 3	Susmita Datta, Tim Friede	Plains A
02.A1.I31	Innovative Statistical and AI-Driven Approaches for Complex Data Modeling	Plains B
02.A1.I32	Causal inference in randomized experiments	Plains C
02.A1.I33	Recent Advancements in Spatial Statistics	Prairie A
02.A1.I34	Emerging perspectives in Statistical Learning	Prairie B
02.A1.I35	Advances in high dimensional statistical learning	Prairie C
02.A1.I36	Innovative Bayesian Approaches for Data Integration and Predictive Modeling	Arbor
02.A1.I37	Methods for Big, Complex Biological Data	Garden

Time : 16:15 - 16:30 **Coffee Break**

Venue: Foyer

Time: 16:30 - 18:00

02.E1.I38	Advances in Learning & Inference with Complex Data: Networks, Functional Data, and Beyond	Plains A
02.E1.I39	Advancing Evidence Generation: Methods for External Control, Causal Inference, and Dynamic Borrowing in Clinical Research	Plains B
02.E1.I40	Frontiers in Adaptive Statistical Inference	Plains C
02.E1.I41	Kernel Methods for Nonparametric Inference	Prairie A
02.E1.I42	Networks: Learning and Inference	Prairie B

02.E1.I43	Semi-parametric and high-dimensional statistics	Prairie C
02.E1.I44	Bayesian Methods and Machine Learning for Dynamic Data Analysis and Prediction	Arbor
02.E1.I45	Recent advances in Spatial Statistics	Garden

Time : 19:00-22:00 **Banquet Dinner and Award Ceremony** *Venue: The Graduate by Hilton Hotel*

Saturday June 14

Time: 9:00 - 12:30

Short Course 2	Multimodal Causal Inference for Data Science and Biomedical Research	Garden
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Time: 9:00 - 10:30

03.M1.I46	Machine Learning in Spatial Extremes: Bridging Spatial Statistics and Extreme Value Theory	Plains A
03.M1.I47	Topics in Data Science	Plains B
03.M1.I48	Recent developments in small area and related topics	Plains C
03.M1.I49	Innovative Bayesian Paradigms: Navigating Optimal Testing, Dynamic Networks, & Beyond	Prairie A
03.M1.I50	Advancing Clinical Trial Design: Bayesian Approaches for Efficiency and Adaptability	Prairie B
03.M1.I51	Trustworthy probabilistic inference	Prairie C
03.M1.I52	Bayesian Approaches and Statistical Learning for Complex Data Analysis	Arbor

Time : 10:30 - 10:45 **Coffee Break** *Venue: Foyer*

Time: 10:45 - 12:15

Special Invited Session 4	Dan Nettleton, Jingyi Jessica Li	Plains A
Panel Discussion 3	Modern Teaching and Career Development in Studying Statistics	Plains B
03.M2.I53	Advances in Change Point Detection and Time-Dependent Processes	Plains C
03.M2.I54	Network resampling and beyond	Prairie A
03.M2.I55	Modern Methods in High-dimensional Statistics	Prairie B
03.M2.I56	IMS New Researcher's Group Invited Session	Prairie C

Time : 12:15 - 13:30 **Lunch** *Venue: East Campus Dining Center*

Time: 13:30 - 14:30

Plenary Lecture 3	Ryan Tibshirani	Plains A
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Time: 14:30 - 14:45 **Short Break No Coffee**

Time: 14:45 - 16:15

Special Invited Session 5	Jan Hannig, Galin Jones	Plains A
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03.A1.I57	Enhancing Efficiency and Precision in Clinical Trials: Novel Methods for Outcome Assessment and Data Integration	Plains B
03.A1.I58	Innovations in Spatial Statistics	Plains C
03.A1.I59	Frontiers in Learning and Inference in Statistics and AI	Prairie A
03.A1.I60	Advanced Time Series Analysis Methods and Applications	Prairie B
03.A1.I61	Advances in high-dimensional statistics	Prairie C
03.A1.I62	Innovations and Challenges in Medical Statistics	Arbor
03.A1.C2	Applications	Garden

Time : 16:15 - 16:30 **Coffee Break**

Venue: Foyer

Time: 16:30 - 18:00

03.E1.I63	Recent advances Statistical Genetics	Plains A
Stat Bowl	Stat Bowl	Plains B
03.E1.I64	Statistical and Computational Advances in Complex Decision-Making	Plains C
03.E1.I65	Advances in approximate Bayesian learning	Prairie A
03.E1.I66	Advances in Statistical Methods for Training, Serving, and Evaluating Large Language Models	Prairie B
03.E1.I67	Advancements in Statistical Modeling for Complex Data: Microbiome Associations, Low-Rank Matrix Models, and Network Functional Connectivity	Prairie C
03.E1.I68	Statistical and Computational Methods for Complex Data	Arbor

Sunday June 15

Time: 9:00 - 10:30

04.M1.I69	Recent developments in Statistical Applications	Plains A
04.M1.I70	Causal inference in complex settings	Plains B
04.M1.I71	Modern statistical methods, with applications in the biomedical sciences	Plains C

Time : 10:30 - 10:45 **Coffee Break**

Venue: Foyer

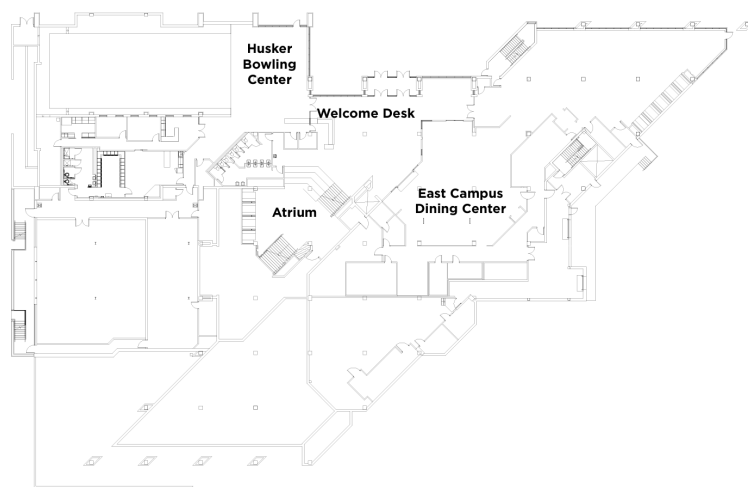
Time: 10:45 - 12:15

04.M2.I72	Recent advances in high-dimensional modeling	Plains A
04.M2.I73	Bayesian Inference and Uncertainty Quantification in Regression, Dynamic Systems, and Inverse Problems	Plains B
04.M2.I74	Bayesian and Empirical Methods for Prediction, Inference, and Signal Detection	Plains C

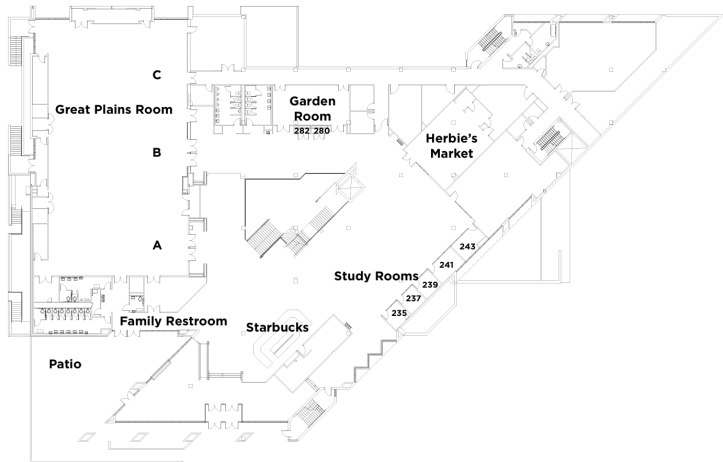
Time : 12:15 - 13:30 **Lunch**

Venue: East Campus Dining Center

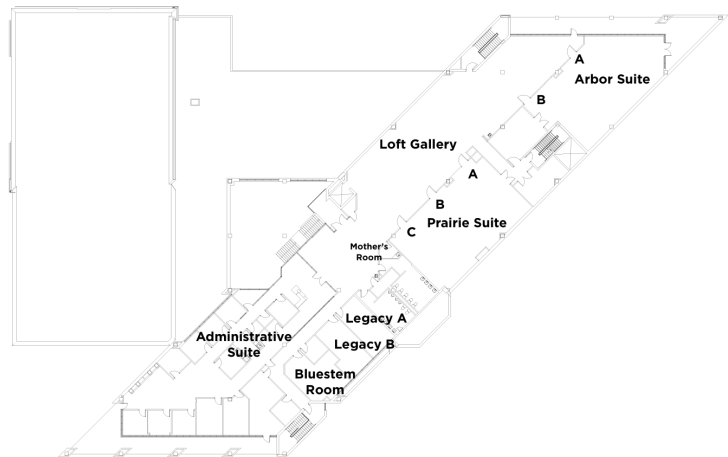
Nebraska East Union Floorplan



Nebraska East Union
Floor 1



Nebraska East Union
Floor 2



Nebraska East Union
Floor 3

- | | |
|-----------|---------------------|
| Plains A | Great Plains Room A |
| Plains B | Great Plains Room B |
| Plains C | Great Plains Room C |
| Prairie A | Prairie Suite A |
| Prairie B | Prairie Suite B |
| Prairie C | Prairie Suite C |
| Arbor | Arbor Suite |
| Garden | Garden Room |

Local Map

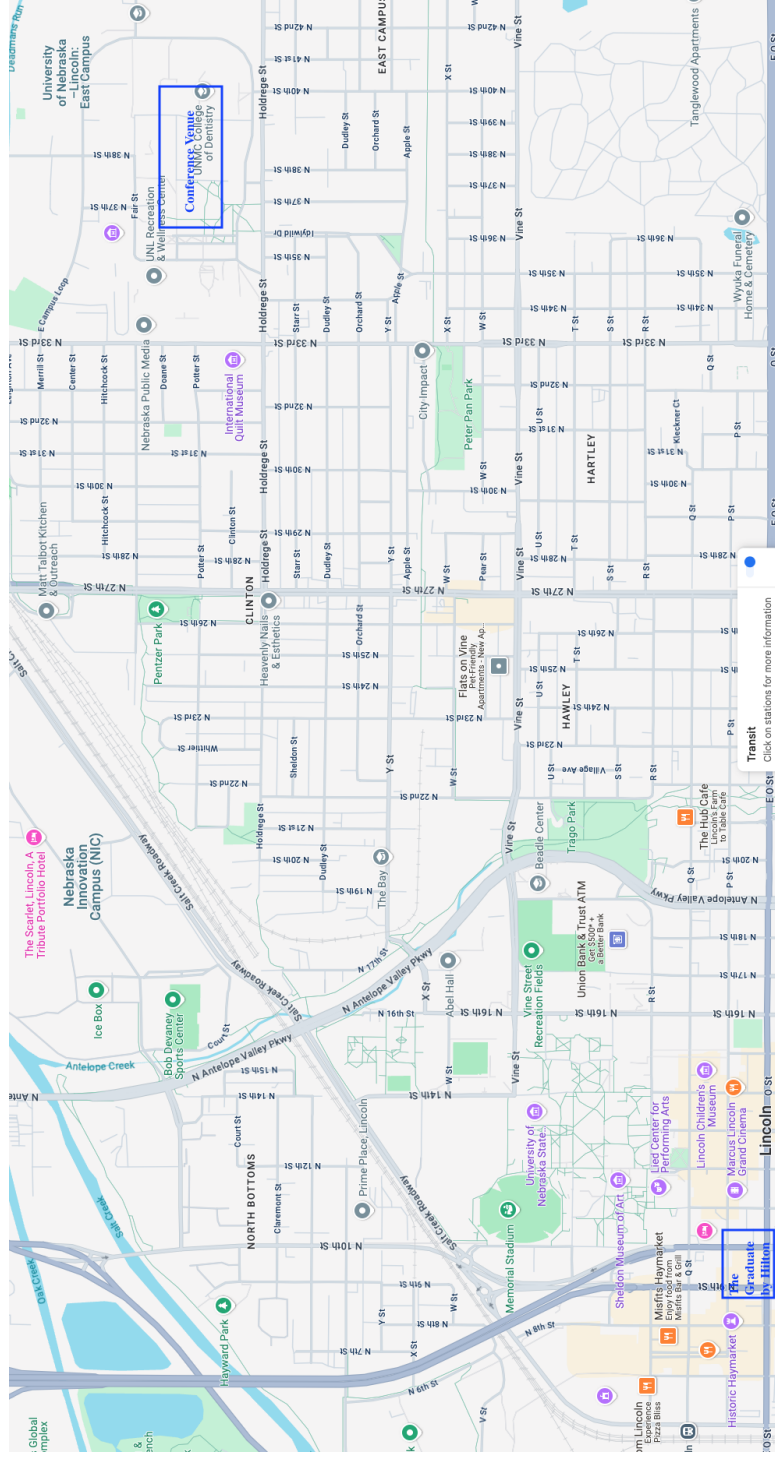


Figure 1: The map of the Downtown Lincoln and the East Campus

- All sessions will be held at the Nebraska East Union (NEU) at the East campus of the University of Nebraska-Lincoln (UNL).
- The venue is about 3.9 miles away from the conference hotel, i.e., The Graduate by Hilton, which is located in the Haymarket area of Downtown Lincoln..
- The hotel is next to the city campus of UNL, a different campus from the East campus where the conference is being held.
- From the hotel, NEU is about 9 minutes by car—around 20 minutes by public bus.
- The public buses 24, 25 (weekdays only), 42, and 49 (weekdays and Saturday) run from the downtown area/city campus to the east campus.
- Ride-hailing services like Uber are usually readily available.

This map illustrates the University of Nebraska-Lincoln campus, highlighting various buildings, streets, and transit options. Key buildings include the Nebraska Public Media, UNL Recreation & Wellness Center, Burr Hall, Fedde Hall, Agricultural Hall, Agricultural Communications Bldg, UNL Dairy Store, Nebraska East Union, Union Bank & Trust ATM, Miller Hall, East Campus Residence Hall, Dinsdale Family Learning Commons, Maxwell Arboretum, UNMC College of Dentistry, Animal Science Building, Insectary Bldg, Teaching Greenhouse West, Plant Sciences Hall, Water Sciences Laboratory, Forestry Hall, Backyard Farmer Garden, and Senior Market Supplements. 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Figure 2: Map of the UNL East Campus, NEU ie. the conference venue and the Messengale residential Complex is located.

- The Miller Hall does not exist.
- The buses 24 and 25 run through the East Campus Loop. The nearest stop is in front of the UNL dairy store.
- These buses circle between the city and the east campus.
- The bus 42 travels on the Holdredge Street. The nearest stop is Holdredge and 37th.
- The bus 49 travels through the 33rd street. The nearest stop is on the 33rd street opposite the Quilt Museum.
- The closest bus stands to The Graduate would be on P Street, either behind the Manse building or opposite to the Embassy Suites hotel.
- The buses accept fare (\$1.25) on board (no change), or you can buy a bus pass on the [StarTran](#) website.

The Graduate, Haymarket, and City campus

