

# JSM PORTLAND OREGON

*August 3–8, 2024*

Statistics and Data Science: Informing Policy and Countering Misinformation

## REGISTRATION GUIDE



# See you in Portland!

Also called the "City of Roses," Portland is known for its abundant green space. It boasts lush urban forests, hiking trails, and waterfront venues. Join us, breathe in the fresh air, and embrace the largest statistical and data science event in North America!





## Network and Learn

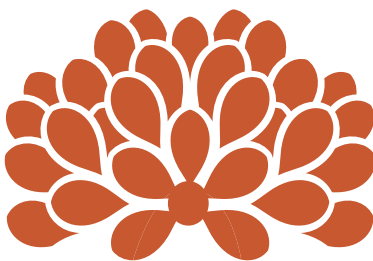
JSM is your chance to connect with a vast network of statisticians and data scientists from academia, industry, and government. Collaborate, share ideas, and explore the latest advances in the field. Get ready to explore a wide range of exciting topics at this year's event, including:

- Adaptive Design
- Artificial Intelligence
- Bayesian Computation
- Causal Inference
- Clinical Trial Design
- Data Science/Modeling
- Life Sciences and Medicine
- Machine Learning
- Spatio-Temporal Statistics
- Statistical Methodology



Register today at [www.amstat.org/jsmregistration](http://www.amstat.org/jsmregistration).

# JSM



# PORTLAND OREGON

AUGUST 3-8, 2024

The Joint Statistical Meetings is the **largest annual gathering** of **statisticians** and **data scientists** in the world!

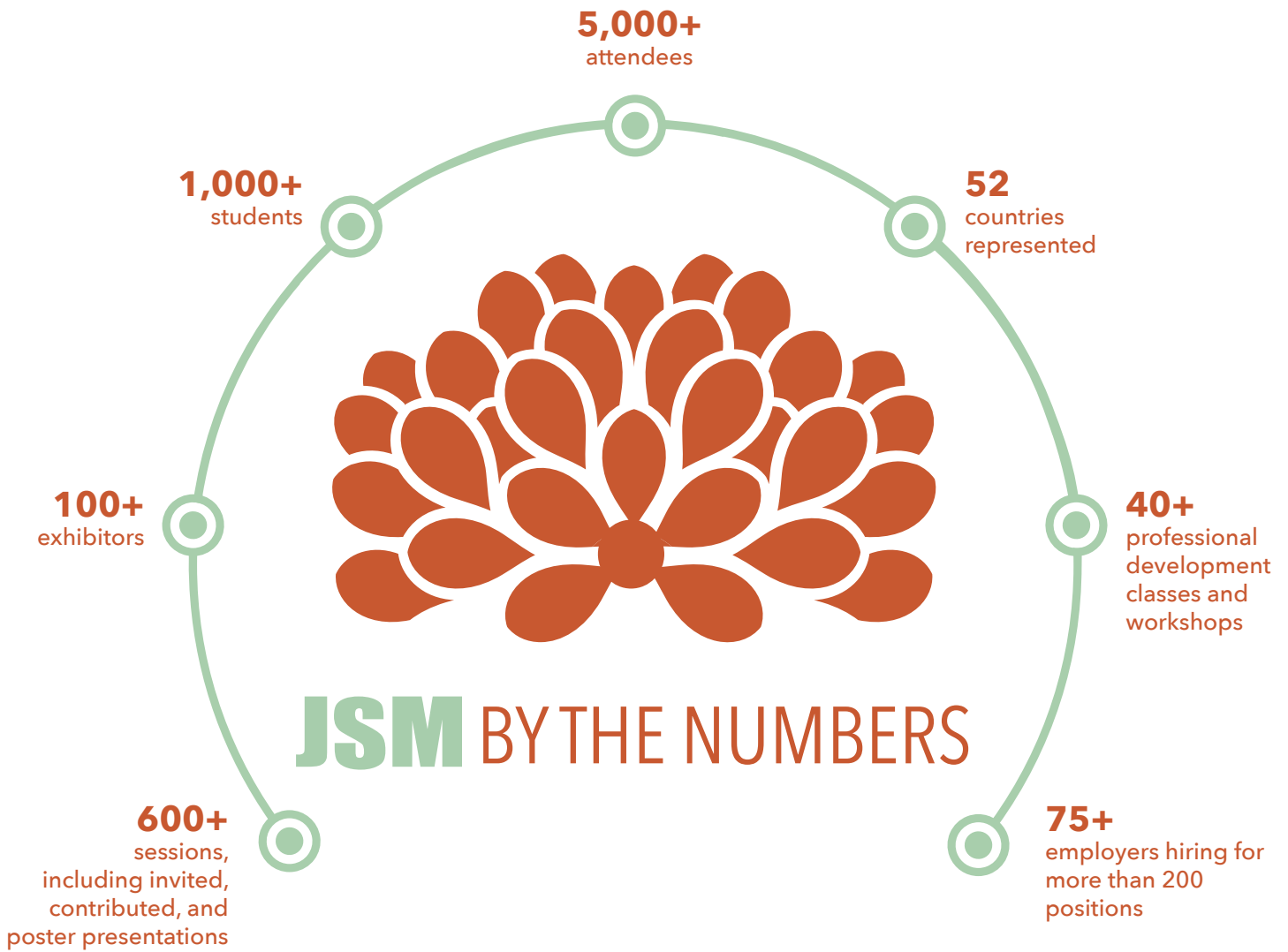
This year's conference will be held **August 3-8** at the **Oregon Convention Center**.



Follow **@AmstatNews** on social media and use **#JSM2024** when you share your experiences.

### Learn from the best and mingle with such well-known statisticians as:

- Alexandra Slavkovic, Penn State University
- Ingrid Van Keilegom, Orstat, KU Leuven
- Tianxi Cai, Harvard University
- Annie Qu, University of California, Irvine
- Lei Nie, FDA
- Lance Waller, Emory University
- Damla Senturk, University of California at Los Angeles
- Amy Herring, Duke University
- Tian Zheng, Columbia University
- Susan Paddock, NORC at the University of Chicago
- Linda Young, National Agricultural Statistics Service
- Nandita Mitra, University of Pennsylvania
- Elizabeth Holmes, NOAA Fisheries
- Kannan Natarajan, Pfizer
- William Wang, Merck
- Hernando Ombao, King Abdullah University of Science and Technology
- Pamela Shaw, Kaiser Permanente Seattle
- F. Dubois Bowman, University of Michigan



## STUDENT PERKS

- Enjoy reduced registration, professional development, and Career Service fees
- Meet other students at the Student Mixer Monday night
- Explore the EXPO to learn about emerging technologies
- Network with renowned statisticians
- Learn during technical presentations
- Join the ASA for only \$25



Attendees mingle and have fun during the **2023 JSM Opening Mixer and Poster Session** in Toronto, Canada.

# What's Included in Your Registration?

## Special Events

### SUNDAY **AUGUST 4**

**JSM First-Time Attendee Orientation and Reception**

12:30 p.m. – 1:30 p.m.

**JSM Opening Mixer & Invited Poster Session**

*Sponsored by Eli Lilly and Company & Westat*

8:30 p.m. – 10:30 p.m.

### MONDAY **AUGUST 5**

**International Indian Statistical Association Mixer**

5:30 p.m. – 7:30 p.m.

**JSM Student Mixer**

*Sponsored by Two Sigma*

6:00 p.m. – 8:00 p.m.

**Korean International Statistical Society Annual Mixer**

5:00 p.m. – 8:00 p.m.

### TUESDAY **AUGUST 6**

**JSM Dance Party**

9:30 p.m. – 12:00 a.m.

### WEDNESDAY **AUGUST 7**

**International Chinese Statistical Association General Membership Meeting**

5:00 p.m. – 6:30 p.m.



Participants network during the **2023 JSM First-Time Attendee Orientation and Reception** in Toronto, Canada.



## REGISTER **EARLY**

(JUNE 3 FOR DISCOUNTED RATES)

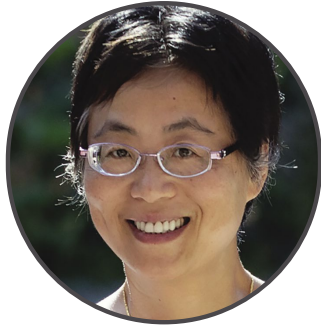
Register online at [www.amstat.org/jsmregistration](http://www.amstat.org/jsmregistration) or by returning the form in this guide.



Follow **@AmstatNews** on social media and tag us using **#JSM2024**.

# Featured Speakers

**MONDAY  
AUGUST 5**



## **MEDALLION LECTURE I**

**ANNIE QU**

**Data Integration  
for Heterogeneous Data**

2:00 p.m.



## **ASA PRESIDENT'S INVITED ADDRESS**

**JASON MATHENY**

**Working at the  
Intersection  
of Statistics and AI Policy**

4:00 p.m.

**TUESDAY  
AUGUST 6**



## **IMS GRACE WAHBA LECTURE**

**NANCY REID**

**Models and  
Parameters: Inference  
Under Model  
Misspecification**

10:30 a.m.



## **COPSS ELIZABETH L. SCOTT LECTURE**

**REGINA LIU**

**Fusion Learning:  
Combining Inferences  
from Heterogeneous  
Data Sources Using  
Bootstrap, Depth,  
Confidence Distribution**

2:00 p.m.



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on social media and tag  
us using **#JSM2024**.



WEDNESDAY  
AUGUST 7



**MEDALLION  
LECTURE II**

JING LEI  
**Uncertainty  
Quantification with  
Nonparametric and  
Black-Box Models**  
2:00 p.m.



**DEMING LECTURE**  
WILLIAM H. WOODALL  
**Innovation: Deming's  
Views and the Role of  
Statistics**  
4:00 p.m.



**ASA PRESIDENT'S  
ADDRESS**  
MADHUMITA  
(BONNIE)  
GHOSH-DASTIDAR  
**Informing Policy  
and Countering  
Misinformation**  
8:00 p.m.



**MEDALLION  
LECTURE III**  
ALICIA CARRIQUIRY  
2:00 p.m.



**COPSS  
DISTINGUISHED  
ACHIEVEMENT  
AWARD  
AND LECTURESHIP**  
ROBERT TIBSHIRANI  
**Pre-Training and the  
Lasso**  
4:00 p.m.



WHAT'S ON  
**THE PROGRAM?**

Check out other sessions and courses  
at <https://bit.ly/JSM2025program>.



Exhibitors chat with attendees in the 2023 JSM EXPO in Toronto, Canada.



## 2024 JSM EXPO

The JSM EXPO is a place to **build relationships** that move you forward. **Learn** about emerging technologies and services, **forge connections** with colleagues, and **celebrate** innovation. Lengthen your reach by **making powerful connections** with organizations, including:

ASA Statistical Consulting Section

AAAS Science and Technology Policy Fellowships

America's DataHub Consortium

ASA GivesBack

ASA Store

Astrostatistics Interest Group

Berry Consultants

Bureau of Transportation Statistics

Cambridge University Press

Center for Statistical Science, Peking University

CIMS Global

Daiichi Sankyo

EFFEX

Five Rings

Genentech

Institute for Mathematical and Statistical Innovation

Institute of Mathematical Statistics

Internal Revenue Service

International Chinese Statistical Association



Attendees check out the exhibitors in the 2023 JSM EXPO in Toronto, Canada.

Sandia National Laboratories

SAS

Section for Statistical Programmers and Analysts

Section on Statistics and Data Science Education

Springer Nature

StataCorp

Statistical Society of Canada

Taylor & Francis

The Lotus Group

University of Florida

University of Kansas

University of Pittsburgh

US Census Bureau

Washington University in St. Louis

WNAR

International Christian Statisticians

International Indian Statistical Association

International Statistical Institute

JMP Statistical Discovery

JSM 2025 Nashville

Justice, Equity, Diversity, and Inclusion Outreach Group

Korean International Statistical Society

LGBTQ+ Advocacy Committee

Mayo Clinic Department of Quantitative Health Sciences

Mayo Clinic Kern Center

Merck

Minitab

National Center for Health Statistics

National Center for Science and Engineering Statistics

National Institute of Statistical Sciences

National Science Foundation

National Security Agency

NCSS Statistical Software

Pacific Northwest National Laboratory

Penfield Search Partners

Penn State University

Plat AI

Realtime CRO

## EXPO HOURS

### SUNDAY

1:00 p.m. – 6:00 p.m.

8:30 p.m. – 10:30 p.m. (Opening Mixer)

### MONDAY

9:00 a.m. – 5:30 p.m.

### TUESDAY

9:00 a.m. – 5:30 p.m.

### WEDNESDAY

9:00 a.m. – 2:30 p.m.



## *Spotlight Portland*

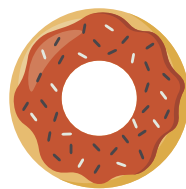
Where is the best place to **grab refreshments or a treat** and **network with other attendees**? You know it! It's the JSM Spotlight inside the EXPO. Take a break from sessions and enjoy refreshments while making new connections. There is something new and fun to try every day.

### **SUNDAY AUGUST 4**

#### **1:00 p.m. - Spotlight Kick-Off**

Swing by and kick off JSM with local Oregon delights. Grab a tasty treat while getting the first look at the JSM EXPO.

#### **3:30 p.m. - Blue Star Donuts**



While taking a turn around the EXPO, stop by for a taste of Portland's famous Blue Star Donuts. Choose from party bites (signature vanilla cake with cinnamon and all-natural sprinkles), orange dreamsicle, and chocolate truffle. You'll never believe they are vegan!

### **MONDAY AUGUST 5**

#### **10:00 a.m. - JSM Coffee House**

Refresh with a cup of freshly brewed coffee from Portland coffee roasters or a selection of teas.





Attendees take a break in the **Spotlight** area of the EXPO during JSM 2023 in Toronto, Canada.



**1:30 p.m. - Popcorn Break**

*Sponsored by NSA*

Enjoy an afternoon pick-me-up with a warm bag of popcorn.

**3:30 p.m. - Microbrew Tasting**

Stop by to taste a variety of area microbrews and cider (while supplies last).



**TUESDAY  
AUGUST 6**

**10:00 a.m. - JSM Coffee House**

*Sponsored by Novartis*

Come by for another cup of fresh hot tea or coffee from Portland coffee roasters.

**1:30 p.m. - Popcorn Break**

Who doesn't love the smell of popcorn? Follow your nose for a bag of yum and let it perk up your afternoon.

**3:30 p.m. - Sample Area Wines**

Don't have time to visit the Willamette Valley while in Portland? We got you. Try tasting pours of red and white from local wineries (while supplies last).



**WEDNESDAY  
AUGUST 7**

**10:00 a.m. - JSM Coffee House**

It's been an intense few days. You need to refresh with a hot cup of tea or coffee from Portland coffee roasters.



**DATA ART  
SHOW**

Explore the relationship between data and art with this juried JSM exhibit featuring artists who use data to create compelling compositions. Each piece was chosen for its innovation and originality, craftsmanship, and artistic merit and goes beyond data visualization to capture the unique perspective of each artist.

# Sessions

Handpick your perfect JSM experience! Dive deep into a world of statistical knowledge with hundreds of concurrent sessions. Plus, explore our special sessions for an unmatched learning opportunity.



## **SPEED SESSIONS**

Take a deep dive into 20 focused presentations guaranteed to pique your interest. Each will consist of four-minute oral presentations followed by a poster session later in the meeting. **Speed session topics for 2024 include the following:**

- Data Challenge I, Statistical Applications, and Statistics in Policy
- Data Challenge II and Methods for Correlated Data
- Bayesian Methods and Applications
- Statistics in Clinical Trials
- Machine Learning, Visualization, and Nonparametric Statistical Approaches
- Statistics in Education and Applications
- Statistical Methods in Surveys and Policy Applications
- Survival Outcomes, Network Analyses, and 'Omics Applications



Dooti Roy, center, from the University of Connecticut, presents her oral presentation (top) and digital poster (bottom) during the Data Challenge contributed speed session at the 2017 Joint Statistical Meetings in Baltimore, Maryland.

## INTRODUCTORY OVERVIEW LECTURES

Be sure to check out the popular introductory overview lectures (IOLs) that provide relatively brief, high-quality introductions to important and timely statistical topics. Sessions for 2024 include the following:

### **The Statistical Challenges of Modern Biological Data**

Elisabeth Forrestel, George Tiley, and Jim Leebens-Mack

### **Quantum Computing for Statisticians**

Yazhen Wang and Brani Vidakovic

### **Statistics and Large Language Models**

David Banks and Karl Pazdernik

### **Program Evaluation**

Elizabeth Eisenhauer, Medha Uppala, and Debra Rog

### **The US Federal Statistical System: Why We're Here, What We Do, Who We Are, and Career Opportunities**

Katherine Irimata, Claire Bowen, Emilda Rivers, and Nate Ramsey



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on social media and tag  
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## REGISTER EARLY

(JUNE 3 FOR DISCOUNTED RATES)



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# What Can You Add to Your Registration?

## Add-Ons



**Enhance your JSM experience** by adding these optional, fee-based opportunities that provide focused learning, valuable resources, and unique networking opportunities. Sign up early, as some sell out!

### **SPEAKERS WITH LUNCH AND ROUNDTABLE DISCUSSIONS**

#### **Speakers with Lunch**

*\$50, includes lunch*

If listening to a fascinating talk while having lunch with friends and colleagues sounds good to you, sign up for one of the speakers with lunch events. These lunches—offered Sunday through Wednesday from 12:30 p.m. - 1:50 p.m.—also offer great discussion and networking opportunities.

#### **Roundtable Discussions**

*A.M. - \$25 / P.M. - \$50*

For interesting discussion and a networking event that doesn't bust your wallet, register for an A.M. roundtable discussion, offered Monday through Wednesday from 7:00 a.m. - 8:15 a.m.

If early morning isn't your style, P.M. roundtables also offer great discussion and networking opportunities and are held Monday through Wednesday from 12:30 p.m. - 1:50 p.m.

The speakers with lunch events and roundtables offer both regular and vegetarian meals. Be sure to indicate your preference when you register.

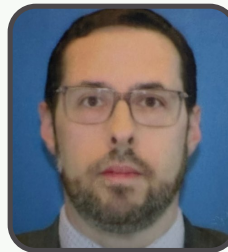


SUNDAY  
AUGUST 4

## SPAIG LUNCHTIME SPEAKER

\$50, includes lunch

SL01



### Luke Larsen, US Census Bureau

Advantages to Cooperative  
Educational Experiences  
in Data Science Applications

Data science methods and applications have long hewn close to the cutting edge of technology, and researchers in the private sector, academe, and government can easily become overwhelmed by the latest and greatest in data science advancements. A tried-and-true tactic in professional environments is to hand the issue to a tech-savvy intern or recent graduate who can apply novel tactics and solutions. In this discussion, Luke Larsen relates to the audience's recent experiences with a similar resource: university programs of study that invite outside agencies to work with and advise students on completing a capstone project pertaining to their topic of interest. The Census Bureau's Center for Behavioral Science Methods has participated as a sponsoring agency for the computational methods and data analytics undergraduate program at Virginia Tech for the past three years. Through this platform, both professionals and students have enjoyed numerous benefits.



### MORE ONLINE

To view complete roundtable  
descriptions, visit  
<https://bit.ly/3UGp00x>.

# SPEAKERS WITH LUNCH AND ROUNDTABLE DISCUSSIONS

## MONDAY AUGUST 5

### A.M. ROUNDTABLES

Government Statistics Section

**ML01: Record Linkage: Current and Future Advances to Inform Policy**  
*Roe Gutman, Brown University*

Quality and Productivity Section

**ML02: The Importance of Measurement Uncertainty**  
*Nevin Martin*

Statistical Learning and Data Science Section

**ML03: Problems and Research Opportunities in Data Science in Tech**  
*Tim Hesterberg, Instacart*

### P.M. ROUNDTABLES

Biopharmaceutical Section

**ML05: Statistical Leadership in the AI/ML Space**  
*Abie Ekangaki, Premier Research*

**ML06: Data Monitoring Committee Oversight of Clinical Trials with Adaptive Designs**  
*Emily Woolley, Axio, a Cytel company*

## SECTION ON STATISTICS IN SPORTS LUNCHTIME SPEAKER

\$50, includes lunch

**ML04**



**Brian Macdonald, Yale University**

Sports Analytics, Data Science, Data Visualization, and Life

I will discuss a few influential projects and experiences from my work in sports analytics in academia and industry and how they shaped my

approach towards data science across various fields, statistics and data science education, leadership, and life. In particular, I will discuss data workflows/pipelines, modeling and analysis, and perhaps most importantly, how to think about solving problems or answering questions using data. I will also share lessons learned about data visualization and describe some tools I have been developing that are useful for visualizing raw sports data and other data, visualizing data science methods, models, and their outputs, and visualizing data science workflows.

Quality and Productivity Section

**ML07: AI in Process Improvement**  
*Martha Gardner, General Electric*

Statistical Computing Section

**ML08: Opportunities and Challenges with ChatGPT (and other LLMs)**  
*Keegan Kang, Bucknell University*

Statistics in Epidemiology Section

**ML09: Bias Correction for Covariate Measurement Error: State of the Art, and Where Do We Go from Here?**  
*Donna Spiegelman, Yale School of Public Health*

Teaching of Statistics in the Health Sciences Section

**ML10: The Major Research Directions for Nonlinear Dose-Response Modeling**  
*David Farrar*

## ECONOMIC OUTLOOK LUNCHTIME SPEAKER

\$50, includes lunch

TL04



### **Erica Groshen, Cornell, ILR School**

Let's Standardize Our Way to Better Economic Data

Societies use standards to facilitate exchange, whether for weights and measures or electrical and plumbing equipment. As we enter the

Information Age, we need more complete standards for highly exchanged data. This matters because, despite the advent of the information age, there has been eroding quality in many timely and important official economic indicators due to declining household and business survey response rates. As part of modernizing, statistical agencies are relying more heavily on burgeoning public and private administrative data. But, as analysts know, much administrative data fails to measure what is needed or is messy, inconsistent, incomplete, or difficult to obtain reliably. Current solutions to these challenges, such as blending multiple sources and applying computationally intensive fixes, can only take you so far. We will explore how wide adoption of data standards by the private sector could graft many advantages of surveys onto administrative sources. The main example we will look at is the Jobs and Employment Data Exchange initiative led by the US Chamber of Commerce Foundation to devise and promote data standards for employers.

### **ML13: Navigating Opportunities and Challenges in the Collaborative Journey of Biostatisticians**

*Lianbo Yu, The Ohio State University*

## TUESDAY AUGUST 6

### A.M. ROUNDTABLES

Biopharmaceutical Section

#### **TL01: Expanding Statistical Influence in Pharmacometrics**

*James Rogers, Metrum Research Group*

Nonparametric Statistics Section

#### **TL02: Robustness in the 21st Century**

*Richard McCormick, University of Cambridge*

Statistical Computing Section

#### **TL03: Computer Science and Statistical Theory in Record Linkage: Will One Continue to Help the Other?**

*Yves Thibaudeau, US Census Bureau*

### P.M. ROUNDTABLES

Biopharmaceutical Section

#### **TL05: Misinformation: The Role of Statisticians and Data Scientists**

*T. Paulette Ceesay, Merck & Co.*

Statistical Consulting Section

#### **ML11: Resampling Techniques for Small Area Statistics**

*Snigdhasu Chatterjee, University of Minnesota*

#### **ML12: Exploring Career Trajectories: Bridging the Gap Between Academia and Industry**

*Margaret Stedman, Stanford University*

# SPEAKERS WITH LUNCH AND ROUNDTABLE DISCUSSIONS

Bayesian Statistical  
Science Section

**TL06: Bayesian Sparse Deep  
Learning in Modern Data  
Science**

*Faming Liang, Purdue University*

Statistical Learning and  
Data Science Section

**TL07: Injecting Generative  
Artificial Intelligence  
(GenAI) into Your Statistical  
Research: Best Practices**

*Zhenke Wu, University of  
Michigan*

Statistics in Genomics  
and Genetics Section

**TL08: How to Create a  
Rewarding Career as an  
Applied Statistician in  
Today's World**

*Jing Huang*

Teaching of Statistics  
in the Health Sciences  
Section

**TL09: Unconventional  
and Engaging Methods  
for Teaching Statistics to  
Students in the Health  
Sciences**

*Hoang Nguyen, University of  
Texas Medical Branch*

Social Statistics Section  
**TL10: A Statisticians Role  
as a Co-Investigator in  
Grant Writing**

*Julia Soulakova, University  
of Central Florida College  
of Medicine*

Survey Research  
Methods Section

**TL11: Survey Weight  
Calibration in R: Workflows  
and Pitfalls**

*Stanislav Kolenikov, NORC at  
the University of Chicago*

Statistical Consulting  
Section

**TL12: Countering Client  
Misinformation: Strategies  
for Self-Employed Statistical  
Consultants**

*Monica Johnston, M. Lee  
& Company*

Caucus for Women  
in Statistics and Data  
Science

**TL13: The Pursuit of 'Fit':  
Unique Challenges Faced by  
Female Junior Investigators  
in STEM Fields**

*Stephanie Grim*

## WEDNESDAY AUGUST 7

### A.M. ROUNDTABLES

Biopharmaceutical  
Section

**WL01: Design and Analysis  
of Clinical Trials with Real-  
World Data for Regulatory  
Decision-Making**

*Li Chen, Amgen*

Statistical Learning and  
Data Science Section

**WL02: ChatGPT Usage in  
Code Writing**

*Burcu Eke Rubini, University of  
New Hampshire*

Teaching of Statistics  
in the Health Sciences  
Section

**WL03: Training the Next  
Generation of Statisticians  
in an Era of Artificial  
Intelligence (AI)**

*Wenjing Yao*

### P.M. ROUNDTABLES

Biopharmaceutical  
Section

**WL05: Current Challenges in  
Conducting Clinical Trials for  
New Treatments in Chronic  
Weight Management**

*Lisa Macpherson, Eli Lilly and  
Company*

Mental Health Statistics  
Section

**WL06: Navigating Mental  
Health in the Era of  
Generative AI**

*Jinyuan Liu*

Physical and Engineering  
Sciences Section

**WL07: The Value of Statistics  
to Scientists, Engineers and  
Managers When AI Is All  
They Want to Discuss**

*George Rodriguez*

## HEALTH POLICY STATISTICS SECTION LUNCHTIME SPEAKER

\$50, includes lunch

**WL04**



### **Marc Elliot, RAND**

Survey Protocols, Response Rates, and Representation of Underserved Patients: A Randomized Clinical Trial

Health care surveys often underrepresent underserved patients. Improving

their response rates would help patient surveys better represent their experiences and assess equity-targeted quality improvement efforts. In the randomized clinical trial we will discuss, 36,001 patients discharged from 46 US hospitals were randomized to six survey protocols: three standard protocols (mail only, phone only, mail-phone) plus three web-enhanced protocols (web-mail, web-phone, web-mail-phone). Response rates were highest in web-mail-phone (36.5%), intermediate for the two-mode protocols (mail-phone, web-mail, web-phone, 30.3%–31.1%), and lowest for the single-mode protocols (mail only, phone only, 22.1%–24.3%). Web-mail-phone resulted in the highest yield for Black, Hispanic, and white patients and the second-highest for multiracial patients. Mail only was the lowest-yield protocol for Black, Hispanic, and multiracial patients, and phone only was the lowest-yield protocol for white patients; these two protocols tied for lowest-yield for Asian American patients. Gains from multimode approaches were often two to three times as large for Asian American, Black, Hispanic, and multiracial patients than for white patients.

Statistics in Genomics  
and Genetics Section

**WL08: Harnessing  
Multi-Institutional Genomic  
Data for Reproducible  
Biomedical Research**

*Karissa Whiting, Memorial  
Sloan Kettering Cancer Center*

Statistical Learning and  
Data Science Section

**WL09: Publishing Statistics  
for the Future of AI**

*Mladen Kolar*

Statistics in Sports  
Section

**WL10: A New Framework  
to Estimate Return on  
Investment for Salaries in  
the National Basketball  
Association**

*Jackson Lautier, Bentley  
University*

Social Statistics Section

**WL11: Getting Involved  
in Data for Social  
Good: Experiences and  
Opportunities**

*David Corliss, Grafham  
Analytics*

Statistical Consulting  
Section

**WL12: Assessing the Needs  
of Statisticians in Low- and  
Middle-Income Countries**

*Evidence Matangi, Taylor  
University*

Caucus for Women  
in Statistics and Data  
Science

**WL13: Challenges  
and Opportunities  
for Mid-Career Statisticians**

*MinJae Lee, University of Texas  
Southwestern*



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media and tag us using **#JSM2024**.

# Professional Development

## **PROFESSIONAL DEVELOPMENT (PD)**

is a fundamental component of the professional life of statisticians, increasing the value of their contributions to society. It is the process of improving and broadening the knowledge, skill, and personal qualities needed to be successful in the practice of statistics.

**CONTINUING EDUCATION** offerings consist of courses and computer technology workshops in statistical methodology and practice. Courses are offered in two-day, one-day, and half-day formats Saturday through Tuesday. Computer technology workshops are offered in two-hour intervals on Wednesday.

## **PROFESSIONAL SKILLS DEVELOPMENT**

consists of courses, workshops, and panel discussions on topics such as effective communication, collaboration, leadership, and influence.

*Thank you to our professional development sponsors: Otsuka Pharmaceuticals, Daiichi Sankyo, and Vertex Pharmaceuticals.*

## **REGISTRATION**

To participate in professional development offerings, you must register for JSM. Lower rates are given to those adding courses and workshops to their registration from May 1 to June 30. After June 30, higher rates apply. Registration depends on seat availability and will be handled on a first-come, first-served basis.

## **DISCOUNT**

PStat, GStat, and A.Stat accredited members in good standing with the ASA or SSC will receive a 20% discount on Professional Development courses and workshops.



## **MORE ONLINE**

To view complete Professional Development course descriptions, visit <https://bit.ly/JSM2024program>.

# CONTINUING EDUCATION COURSES

## SATURDAY AUGUST 3

### CE\_01C

8:00 a.m. – 12:00 p.m.

#### Real-World Evidence Framework in Clinical Development

*Instructor(s): Freda Cooner  
and Laura Fernandes*

#### BIOPHARMACEUTICAL SECTION

We will start by defining real-world data and real-world evidence, and then present the FDA framework for using real-world data in clinical development. Next, we will focus on the different types of systemic biases. Finally, we will introduce clinical trial designs and Bayesian statistical methodologies that leverage external clinical trial data.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_02C

8:00 a.m. – 12:00 p.m.

#### Statistical Analysis of Composite Time-to- Event Outcomes: The Win Ratio and Beyond

*Instructor(s): Lu Mao*

#### LIFETIME DATA SCIENCE SECTION

We provide a systematic treatment to the newly developed methods for composite endpoints, from theory to practice. The topics will range from two-sample testing to estimation, semiparametric regression, and, to a lesser extent, non-parametric regression. Usage of the corresponding R-packages will be demonstrated in real time and on real data examples.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_03C

8:30 a.m. – 5:00 p.m.

#### Text Analysis for Statisticians: Introduction to Advanced Language Modeling

*Instructor(s): Karl  
Pazdernik and Robin  
Cosbey*

#### TEXT ANALYSIS SECTION

This course will provide a broad overview of text analysis and natural language processing and alternate between presentations and hands-on exercises in Python. Translations from Python to R will be provided for students more comfortable in that language. Attendees should be familiar with Python (preferably), R, or both and have a basic understanding of statistics and/or machine learning.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

M=Member

NM=Nonmember

S=Student

*(Prices in parentheses are  
for after June 30)*



# PROFESSIONAL DEVELOPMENT

M=Member  
NM=Nonmember  
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for after June 30)

## CE\_04C

8:30 a.m. – 5:00 p.m.

### **Statistical Genetics and Genomics: Fundamentals and Advanced Topics**

*Instructor(s): Mingyao Li,  
Kwang-Youn Kim, and  
Rui Xiao*

#### STATISTICS IN GENOMICS AND GENETICS SECTION

This course will cover both fundamental and advanced topics in statistical genetics and genomics, including basic genetic principles, genome-wide association studies, polygenic risk scores, expression quantitative trait locus analysis, and allele-specific expression analyses, analysis of single-cell RNA-seq data, and spatial transcriptomics data.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

## CE\_05C

8:30 a.m. – 5:00 p.m.

### **Reproducible Research Bootcamp**

*Instructor(s): Aaron  
Williams*

This course aims to equip researchers with fundamental tools for reproducible research. It will introduce Quarto, Git, and GitHub; coding best practices; and environment management with renv through hands-on exercises and clear resources. The course focuses on R but the content is broadly applicable.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

## CE\_06C

8:30 a.m. – 5:00 p.m.

### **Understanding and Tackling Measurement Error: A Review of Modern Practical Methods**

*Instructor(s): Pamela Shaw  
and Paul Gustafson*

#### BIOMETRICS SECTION

This course will begin with a discussion of the effects of measurement error in regression analyses, then move to techniques

for mitigating those effects via statistical analysis and study design. We will discuss analytical methods including regression calibration, simulation extrapolation (SIMEX), likelihood-based methods, and Bayesian methods.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

## CE\_07C

1:00 p.m. – 5:00 p.m.

### **Merging Data Sources: Record Linkage Techniques and Analysis of Linked Data Sets**

*Instructor(s): Roei Gutman  
and Dean Resnick*

#### RECORD LINKAGE INTEREST GROUP

This course describes available linkage methods and methods to analyze linked data sets, illustrating both using R. It is intended for applied statisticians who are interested in using record linkage methods and estimating relationships with linked data sets.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)



## CE\_08C

1:00 p.m. – 5:00 p.m.

### **Testing and Estimation of Treatment Effects in Clinical Trials with Semi-Competing Risks Outcomes**

*Instructor(s): Song Yang*

#### LIFETIME DATA SCIENCE SECTION

This course addresses strengths and limitations of approaches such as Copula models, multi-state models, restricted mean time, and win ratio, as well as their respective variants. Recommendations are given for which methods to use for a possible treatment effect scenario, emphasizing practical and robust analyses. The methods are illustrated with R/Octave using data from recent trials. Course prerequisite: basic knowledge of survival analysis such as Kaplan-Meier estimators and log-rank test.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## SUNDAY AUGUST 4

### CE\_09C

8:00 a.m. – 12:00 p.m.

### **Random Effects and Recurrent Events in Survival Analysis**

*Instructor(s): Milind Phadnis*

This course provides an opportunity to learn about advanced modeling, keeping in mind the underlying assumptions of the models. Real-life examples will be covered using the R/SAS software and will focus on how to choose the most appropriate methods of analyzing random effects and recurrent events data.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_10C

8:00 a.m. – 12:00 p.m.

### **Evidence Synthesis Approaches to Accelerate Rare Disease Drug Development**

*Instructor(s): Satrajit Roychoudhury and Wei Wei*

#### BIOPHARMACEUTICAL SECTION

This course will introduce the general methodology framework

for Bayesian evidence synthesis and provide step-by-step instructions for implementing these approaches and evaluating their frequentist operating characteristics. We will provide a detailed illustration with real-life examples and provide necessary R scripts.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_11C

8:00 a.m. – 12:00 p.m.

### **Tree-Based Machine Learning Methods for Prediction, Variable Selection, and Causal Inference**

*Instructor(s): Hemant Ishwaran and Min Lu*

#### BIOMETRICS SECTION

Tree-based machine learning methods offer several benefits in data analysis, including non-linearity, robustness, scalability and handling mixed data types. This course emphasizes practical learning with hands-on code examples and result interpretations, which is essential for understanding and applying these techniques.



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Based on the widely popular R package 'randomForesSRC', we will present methods for computing predicted outcomes, variable importance indices, and causal inference estimates. In addition, we will introduce a new model-independent variable selection method called the rule-based variable

priority and present its implementation using the R package 'varPro.'  
FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## CE\_12C

8:30 a.m. – 5:00 p.m.

### Reproducible Publishing with Quarto

*Instructor(s): Mine Cetinkaya-Rundel and Charlotte Wickham*

#### STATISTICAL COMPUTING SECTION

In this course, you will learn how to use Quarto for technical communication and computation. We'll teach you how to get started creating and fully customizing Quarto outputs (HTML, PDF,

Presentations) and the use of RStudio's Visual Editor, which provides a user interface for editing all Pandoc markdown. We will assume you have authored computational documents. The workshop should also be accessible to those who have experience with Jupyter Notebooks.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

## CE\_13C

8:30 a.m. – 5:00 p.m.

### Practical Considerations for Bayesian and Frequentist Adaptive Clinical Trials

*Instructor(s): Frank Bretz, Peter Mueller, Yuan Ji, and Bjoern Bornkamp*

#### BAYESIAN STATISTICAL SCIENCE SECTION

This course introduces various adaptive methods for Phase I to Phase III clinical trials using both frequentist and Bayesian methods. We will introduce dose escalation / de-escalation, adaptive dose-finding studies, master protocol designs, trials with

sample size adaptations, and adaptive designs for confirmatory trials with treatment or population selection at interim, as well as illustrate practical considerations with case studies.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

## CE\_14C

8:30 a.m. – 5:00 p.m.

### Statistical Inference in Large Language Models

*Instructor(s): Weijie Su, Emily Getzen, and Linjun Zhang*

#### NONPARAMETRIC STATISTICS SECTION

This course will equip statisticians with the skills to integrate inferential concepts into the applications and advancement of large language models. Topics include an introduction to LLM fundamentals, a primer on statistical inference techniques for text data using LLMs, and an in-depth exploration of LLM applications in medical domains and the broader

data science field. No prior knowledge of LLMs is required.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

### CE\_15C

1:00 p.m. – 5:00 p.m.

#### Microsimulation Modeling and Bayesian Model Calibration

*Instructor(s): Fernando Alarid-Escudero, Selina Pi, and Carolyn Rutter*

#### HEALTH POLICY STATISTICS SECTION

This course will provide an overview of discrete event simulation models, the general structure for their implementation in R, and Bayesian model calibration methods. It will involve hands-on programming exercises in R using code templates and is intended for an audience interested in creating individual-level DES models and using them to conduct policy or clinical analysis.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_16C

1:00 p.m. – 5:00 p.m.

#### Analysis of Interval-Censored Time-to-Event Data: Methods and Applications

*Instructor(s): Jianguo Sun and Ding-Geng (Din) Chen*

#### BIOMETRICS SECTION

This course will present up-to-date modeling to analyze interval-censored, time-to-event data. We will start with an overview of data structures and discuss the associated statistical survival models to analyze these data. Then, we will discuss statistical procedures with the most recent development in methods and software implementations in R/SAS.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_17C

1:00 p.m. – 5:00 p.m.

#### Large-Scale Spatial Data Science

*Instructor(s): Marc Genton, Sameh Abdulah, and Mary Lai Salvana*

#### STATISTICAL COMPUTING SECTION

This course will cover the basic concepts of large-scale spatial statistics on parallel systems through synthetic and real data examples using both exact and approximation methods. It will also provide a comprehensive comparison between existing Geostatistics packages (fields and GeoR) and the cutting-edge HPC package (ExaGeoStatR).

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)



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## MONDAY AUGUST 5

### CE\_18C

8:00 a.m. – 12:00 p.m.

#### **Survival Analysis Methods Correcting for Treatment Switching Effects in RCTs: Theory and SAS/R Code**

*Instructor(s): Jing Xu and  
Bingxia Wang*

We will review theory and demonstrate SAS/R code for MSM, TSE, IPCW, and RPSFTM. We will then discuss the pros and cons and practical issues when each method is applied under the RCT setting.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_19C

8:00 a.m. – 12:00 p.m.

#### **Bayesian Methods for Borrowing Historical Data in Randomized Clinical Trials and Real- World Studies**

*Instructor(s): Joseph  
Ibrahim*

#### **BAYESIAN STATISTICAL SCIENCE SECTION**

This course will give biostatisticians and data scientists a comprehensive overview of informative prior elicitation from historical data; expert opinion; and data sources such as real-world data, prior predictions, estimates, and summary statistics. We

will focus on Bayesian design and analysis and emphasize borrowing external control data in the design and analysis of clinical trials. Methods will be demonstrated using Stan, SAS, and the R packages hdbayes and BayesPPD.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### CE\_20C

8:30 a.m. – 5:00 p.m.

#### **Data Integration in Surveys and Clinical Trials: Methods and Software**

*Instructor(s): Michael  
Elliott and Yajuan Si*

#### **SURVEY RESEARCH METHODS SECTION**

We will introduce fundamental concepts and quality criteria for an integrated data infrastructure and review data integration methods such as record linkage, statistical matching, and data fusion. The prerequisite is coursework in graduate-level applied statistics. The course

## REGISTER EARLY

(JUNE 3 FOR DISCOUNTED RATES)



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will be presented at a moderately advanced statistical level.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

### **CE\_21C**

8:30 a.m. – 5:00 p.m.

#### **Introduction to Latent Variables and Structural Equation Modeling**

*Instructor(s): Douglas Gunzler and Alessandro De Nadai*

#### **MENTAL HEALTH STATISTICS SECTION**

This short course will make latent variable modeling accessible to both new and experienced researchers across many disciplines. We will cover latent variable modeling within the structural equation modeling (SEM) framework. We will address mixture modeling as implemented through latent class analysis and latent profile analysis. Throughout our presentation, we will provide real-world demonstrations using R and Mplus.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

### **CE\_22C**

8:30 a.m. – 5:00 p.m.

#### **Becoming a Statistics JEDI (Justice, Equity, Diversity, and Inclusion)**

*Instructor(s): Abbe Herzig, Aris Winger, and Emily Moore*

This course will explore topics such as identifying the spaces and contexts in which JEDI issues arise; dive deep into the necessity and viability of attending to JEDI issues in these spaces and contexts; examine promising and successful policies, practices, and programs or their components that foster diversity and inclusion; identify challenges to making progress in JEDI; explore examples of successful initiatives; and action plan.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

### **CE\_23C**

8:30 a.m. – 5:00 p.m.

#### **EHR Data Processing and Analytics for Research and Real-World Evidence**

**Discovery from A to Z**  
*Instructor(s): Hulin Wu and Vahed Maroufy*

#### **BIOMETRICS SECTION**

This course will cover electronic health record data extraction, cleaning, processing, and analytics for scientific discoveries and evidence generation. Statistical, machine learning, and project management approaches will also be presented. This short is for researchers and practitioners from academia, industry, and government agencies who have background and basic training (ideally MS degree) in statistics, biostatistics, or data science.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)



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## CE\_24C

1:00 p.m. – 5:00 p.m.

**Statistics Meets Tensors: Methods, Theory, and Applications**

*Instructor(s): Anru Zhang*

### STATISTICAL LEARNING AND DATA SCIENCE SECTION

We will discuss the importance and statistical and computational challenges of tensor data analysis. High-dimensional high-order/tensor data refers to data organized in large-scale arrays spanning three or more dimensions, which are becoming more prevalent across fields such as biology, medicine, psychology, education, and machine learning.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## CE\_25C

1:00 p.m. – 5:00 p.m.

**Applied Modeling in Drug Development Using brms**

*Instructor(s): Sebastian Weber, David Ohlssen, Andrew Bean, and Bjoern Holzauer*

This course introduces the R package brms, which is short for Bayesian regression models using Stan and uses as backend the MCMC sampler Stan. This tool has a simple R syntax and can fit a wide range of models. Features will be illustrated through eight case studies on various drug development problems. This course is recommended for all statisticians interested in applied modeling.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## TUESDAY AUGUST 6

### CE\_26C

8:00 a.m. – 12:00 p.m.

**Statistical and Computational Methods for Microbiome Data Analysis**

*Instructor(s): Gen Li*

### BIOMETRICS SECTION

This course will provide a comprehensive overview of statistical and computational methods for microbiome data analysis, covering data acquisition, processing, normalization, and visualization using state-of-the-art analytic pipelines. Detailed presentations explore statistical and computational methods for tasks such as differential abundance analysis, regression, generative models, and network analysis. We will also discuss emerging research topics such as longitudinal data analysis and data integration.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## **CE\_27C**

8:00 a.m. – 12:00 p.m.

### **Deep Learning for Statisticians**

*Instructor(s): Edgar Dobriban and Xiao Wang*

This short course is for those new to machine learning and deep learning and interested in the core concepts behind these learning algorithms and their successful applications. Topics include classical methods and modern techniques, including basic machine learning tools, supervised and unsupervised learning, deep neural networks, computational algorithms, and software for deep learning.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## **CE\_28C**

8:00 a.m. – 12:00 p.m.

### **Integrating External Control Subjects in the Design and Analysis of Randomized Controlled Trials**

*Instructor(s): Mingyang Shan, Herbert Pang, Jiawen Zhu, Matthew Secret, and Manoj Khanal*

#### **BIOPHARMACEUTICAL SECTION**

This course will provide an overview of the statistical framework and challenges in externally controlled trials, recommendations for designing studies with hybrid external control arms, strategies for selecting external subjects according to similarity metrics to RCT data, and popular Bayesian approaches that use data-driven comparisons to determine subject-specific contributions for external controls. Simulated and/or real data examples will be integrated throughout the course. We will also introduce the newly developed psborrow R package as an open-source toolkit

that implements several types of analysis for external borrowing.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## **CE\_29C**

8:30 a.m. – 5:00 p.m.

### **Clinical Evidence Generation Using Electronic Health Records Data**

*Instructor(s): Yong Chen and Xu Shi*

#### **BIOMETRICS SECTION**

This short course will introduce participants to the basic structure of electronic health records data and analytic approaches to working with these data through a combination of lectures and exercises in R. R code will be provided for implementation of the presented methods, and hands-on exercises will be used to compare results of alternative approaches.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

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**CE\_30C**

8:30 a.m. – 5:00 p.m.

**Introduction to Bayesian  
Nonparametric Methods  
for Missing Data**

*Instructor(s): Michael  
Daniels, Antonio Linero,  
and Jason Roy*

**STATISTICS IN  
EPIDEMIOLOGY SECTION**

We will discuss the key concepts in missing data (including identifiability and sensitivity parameters) and review relevant concepts in Bayesian inference, talk about the fundamental Bayesian nonparametric tools required to address missing data problems, and look at how the Bayesian nonparametric approach can be applied in a variety of case studies. The data sets in the case studies come from electronic health records data and randomized clinical trials.  
FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

**CE\_31C**

8:30 a.m. – 5:00 p.m.

**Machine Learning  
Methods for Survival  
Data in Clinical Trials  
Using R/Python**

*Instructor(s): Nusrat  
Rabbee and Julia Wang*

**STATISTICAL LEARNING  
AND DATA SCIENCE  
SECTION**

This short course is for those interested in learning data science principles and applying machine learning models in survival data sets from clinical trials or observational studies with an intervention arm. We will cover both R and Python programming to analyze the example data sets.

FEES: M - \$390 (\$530)  
NM - \$520 (\$700)  
S - \$235 (\$320)

**CE\_32C**

1:00 p.m. – 5:00 p.m.

**Interface Between  
Regulation and Statistics  
in Drug Development**

*Instructor(s): Birol Emir,  
Michael Gaffney*

**STATISTICAL  
CONSULTING SECTION**

This course is for statisticians who are relatively

new to the pharmaceutical industry and wish to broaden their knowledge and understanding of the interplay between statistics and regulatory science in drug development. We will address issues that lie at the intersection of statistics and regulatory affairs, with emphasis on salient features of traditional and emerging issues and methodologies in the design, conduct, analysis, and reporting of clinical trials or observational studies intended for regulatory purposes.  
FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

**CE\_33C**

1:00 p.m. – 5:00 p.m.

**Causal Inference in  
Randomized Controlled  
Trials**

*Instructor(s): Shanti  
Gomatam, Bohdana  
Ratitch, Robin Dunn, and  
Bjoern Bornkamp*

**BIOPHARMACEUTICAL  
SECTION**

This course introduces the basic concepts of causal inference and



topics most relevant to randomized controlled trials. We will assume basic familiarity with statistical inference. Prior knowledge of causal inference is not required.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

### **CE\_34C**

1:00 p.m. – 5:00 p.m.

#### **Introduction of Biomarker Discovery in Cancer Research**

*Instructor(s): Xiaoli Zhang and Lianbo Yu*

We will provide a broad and fundamental overview of cancer biomarker discovery. This encompasses key concepts, data sources, data analysis techniques, and interpretation strategies. Such expertise will equip participants with the knowledge necessary to contribute to the development of precision medicine in cancer treatment.

FEES: M - \$245 (\$335)  
NM - \$320 (\$430)  
S - \$150 (\$200)

## **COMPUTER TECHNOLOGY WORKSHOPS**

### **WEDNESDAY AUGUST 7**

Fee: \$60(\$75) Each

#### **CE\_37T**

8:00 a.m. – 9:45 a.m.

#### **Bayesian Analysis Using the BGLIMM Procedure**

*Instructor(s): Fang Chen and Yi Gong*

#### **SAS INSTITUTE**

This workshop provides an introduction to the BGLIMM procedure in SAS and demonstrates how to use the software for Bayesian estimation and inference. We will use extensive examples to illustrate how to use the procedure to handle nested or nonnested multilevel models, repeated-measures data, missing data, prediction, post fitting inference, model selection, and power prior analysis.

#### **CE\_38T**

8:00 a.m. – 9:45 a.m.

#### **Simultaneous Multi-Response Optimization Using Probability of Success Using Experimental Data**

*Instructor(s): Jose Nunez Ares and Dewi Van De Vyver*

#### **EFFEX**

This workshop provides conceptual and practical information about the multi-response optimization capabilities of EFFEX cloud-based software. We will include demonstrations with real data sets obtained from experiment data. No prior knowledge of EFFEX or probability of success calculation is required, but basic familiarity with regression concepts will prove useful.

#### **CE\_39T**

10:00 a.m. – 11:45 a.m.

#### **Variable Selection and Penalized Regression Using the REGSELECT Procedure**

*Instructor(s): Yingwei Wang*

#### **SAS INSTITUTE**

This workshop introduces the REGSELECT procedure in SAS Visual



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Statistics software, showcasing its capabilities for variable selection and penalized regression. The procedure offers several penalized regression methods with both convex and nonconvex penalties, including LASSO, elastic net, SCAD, and MCP. This workshop is intended for statisticians and data analysts interested in high-dimensional statistical modeling and modern statistical learning.

## CE\_40T

10:00 a.m. – 11:45 a.m.

### **EFFEX Software for OMARS Experimental Designs Enables Doing Screening and Optimization at Once**

*Instructor(s): Jose Nunez Ares, Peter Goos, and Dewi Van De Vyver*

EFFEX

This workshop provides conceptual and practical information about selecting an OMARS design using EFFEX cloud-based software. No prior knowledge of EFFEX or discrete optimization is required, but basic familiarity with design of experiments concepts will prove useful.

## CE\_41T

1:00 a.m. – 2:45 p.m.

### **Causal Mediation Analysis Using Stata** *Instructor(s): Brooke Johnson and Aramays Dallakyan*

STACORP

This workshop will facilitate an understanding of causal mediation analysis using Stata. We will introduce the fundamental steps of causal analysis and apply them to causal mediation analysis, as well as highlight the differences between causal and traditional mediation analysis. No prior knowledge of Stata is required, although a basic understanding of causal inference will be beneficial.

## CE\_42T

1:00 a.m. – 2:45 p.m.

### **All Subsets Variable Selection for Regression Analysis with a Large Number of Candidate Effects**

*Instructor(s): Jose Nunez Ares and Dewi Van De Vyver*

EFFEX

This workshop provides conceptual and

practical information about the all-subsets model selection capabilities of EFFEX cloud-based software. We will include demonstrations with real data sets with a large amount of input factors. No prior knowledge of EFFEX or discrete optimization is required, but basic familiarity with regression concepts will prove useful.

## CE\_43T

3:00 a.m. – 4:45 p.m.

### **Bayesian Model Average Using Stata** *Instructor(s): Yulia Marchenko*

STACORP

In this workshop, I will describe the basics of Bayesian model averaging and demonstrate it with Stata's bma suite. I will also show how Bayesian model averaging can become a useful tool for your regression analysis, Bayesian or not! No prior knowledge is required, but familiarity with Bayesian analysis will prove useful.

## PROFESSIONAL SKILLS DEVELOPMENT

SUNDAY  
AUGUST 4

### CE\_36P

8:00 a.m. – 12:00 p.m.

#### DEPICT: A Framework for Ethical Reasoning for Statistics and Data Science

*Instructor(s): Mario  
Davidson and Jennifer  
Van Mullekom*

We will present overviews of ethics paradigms and the ASA Ethical Guidelines followed by a deep dive into the DEPICT process: Define ethical dilemmas; Explore possible resolutions; Plan resolutions; anticipate issues associated with Implementation; Contemplate actions; and Transcend to incorporate key learnings and avoid future dilemmas. This course is appropriate for students, faculty,

early-career professionals, and managers in any application area.

FEES: M - \$390 (\$530)

NM - \$520 (\$700)

S - \$235 (\$320)

### CE\_37P

2:00 p.m. - 3:50 p.m.

#### Networking Like a Pro: A Guided Networking Session

The ASA Committee on Career Development will host a guided networking social for students and early-career statisticians to practice in a friendly environment. During the practice sessions, students and early-career professionals will 'rotate' to meet and practice with new people (volunteers from industry, government, and academia).

**Free - No registration  
required**



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## MORE ONLINE



To view complete Professional Development course descriptions, visit <https://bit.ly/JSM2024program>.

# Career Service

Looking to make a career move? The JSM Career Service is your one-stop shop for connecting with top employers in statistics and data science. It is not a typical career fair—instead it is a focused recruiting and interviewing center designed to get you face-to-face with potential employers.

Register for Career Service when you register for JSM. Once you are in our system, proactively search the positions and contact the employers of interest to you through our online messaging service. Employers will arrange interviews with you directly. *All interviews are by appointment only.*

### Here's what you can expect:

- **Connect with dozens of onsite recruiters:** Meet representatives from leading companies, government agencies, and academic institutions searching for qualified statistics and data science professionals.
- **Targeted interviewing:** No need to wait in lines or browse endless booths. Employers will reach out to you directly to schedule interviews based on your interests and qualifications.
- **Maximize your impact:** Get your résumé in front of the right people and then interview efficiently at JSM.

### Career Service registration includes the following:

- **Online Employer Search:** Hundreds of job postings from top statistical employers
- **Online Career Service Message Center:** Allows you to contact employers of interest in advance, onsite, and even after JSM concludes
- **Onsite Interviews:** Potential employers often schedule interviews to take place during JSM

### WANT TO PARTICIPATE?

Add Career Service when you register for JSM.

<b>ASA Student Member</b> .....	<b>\$50</b>
<b>Student Nonmember</b> .....	<b>\$75</b>
<b>ASA Member</b> .....	<b>\$100</b>
<b>Nonmember</b> .....	<b>\$150</b>



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## ACCESSIBILITY AND INCLUSION

The ASA strives to foster accessible spaces during the Joint Statistical Meetings. Here's what's already part of our conference planning process:

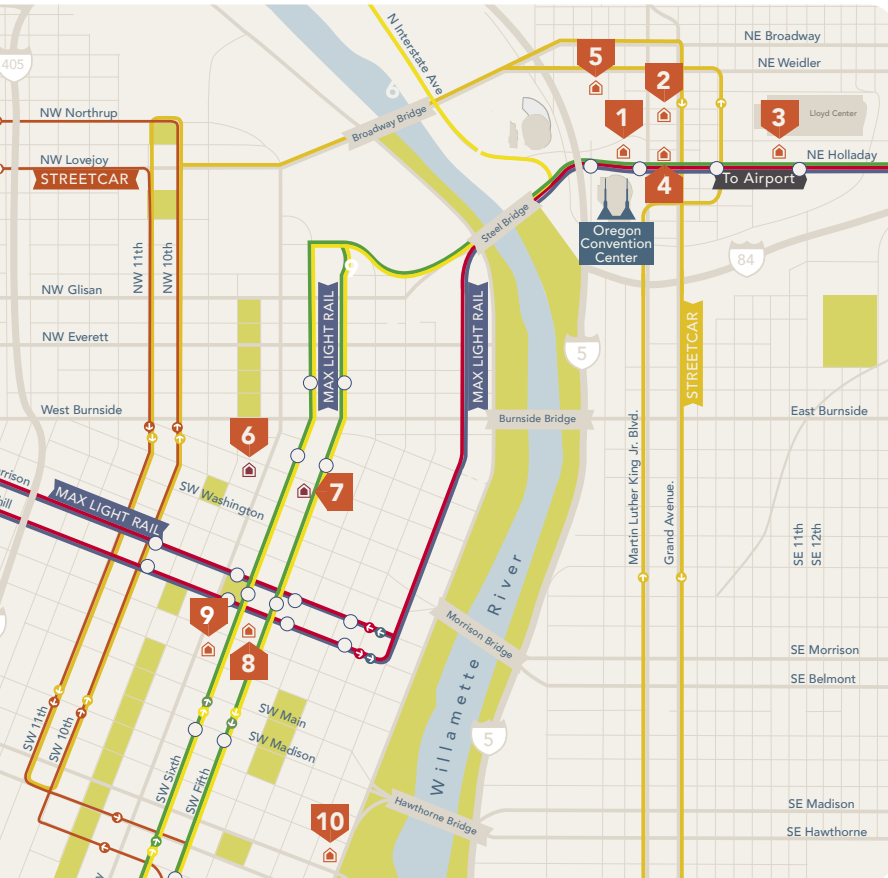
- Keynote and plenary sessions have live captioning.
- Speakers use microphones for all sessions.
- Clearly marked reserved seating is available at the front of every room.
- Clearly marked reserved seating is available in every session room for wheelchairs/scooters.
- The ASA works with individuals who request accommodation (via JSM registration) based on their session selections.
- All conference facilities are accessible to wheelchair and scooter users.
- Elevators are marked and staff can help identify them so you can navigate to your next session or meeting.
- Our hotel team works with attendees who need hotel accommodation.
- Attendees have access to a nursing/lactation room.
- There are all-gender restrooms.
- There is a quiet reflection space for those in need of a place to pray or take a respite from conference activity.

If you have a disability that may impede your participation, check the box during the registration process that asks if you require special assistance and include a statement regarding your needs. The ASA Meetings Department will contact you prior to JSM. Appropriate accommodation cannot be ensured without prior notification.

# Where Will You Stay?

## Official Hotels & Economy Housing

The housing deadline is July 5, 2024. Housing reservations must be made through the official JSM Housing Bureau.



### Hotels Within Walking Distance of the Oregon Convention Center

Located in the Lloyd neighborhood, these hotels are closer to the Oregon Convention Center and just a light rail ride away from Portland's downtown and a wider range of dining and gathering options.

1. **HQ: Hyatt Regency Portland at the Oregon Convention Center**
2. **Courtyard Portland Downtown Convention Center**
3. **DoubleTree by Hilton Portland**
4. **Hotel Eastlund**
5. **Crowne Plaza Portland Downtown**

### Hotels Accessible via Portland's MAX Light Rail

Located downtown, these hotels have ready access to restaurants, cultural offerings, shopping, and other entertainment. They are just a light rail ride away from the convention center.

6. **The Benson Hotel**
7. **Courtyard by Marriott Portland City Center**
8. **The Duniway Portland**
9. **Hilton Portland Downtown**
10. **Portland Marriott Downtown Waterfront**

## JSM HOUSING BUREAU



Phone: (702) 268-9145

Monday – Friday  
9:00 a.m. – 6:00 p.m. ET

[jsm@connectionshousing.com](mailto:jsm@connectionshousing.com)

Please see the housing bureau reservation website at <https://bit.ly/3QHJMvE> for rate information.

## Economy Housing

Budget conscious? Don't need all the extras? If you just need a bed, there are a few options nearby. There are no group blocks for these options, so be prepared to research and reserve on your own.

- **Inn at the Convention Center**

<https://bit.ly/3UZsDQs>  
420 NE Holladay Street,  
Portland, OR, 97232  
(503) 233-6331

- **KEX**

<https://kexhotels.com/about-us>  
Private and bunk rooms available  
100 NE MLK Blvd,  
Portland, OR 97232  
(971) 346-2992

- **University Place Hotel**

[www.uplacehotel.com](http://www.uplacehotel.com)  
310 SW Lincoln St.,  
Portland, OR 97201  
(503) 221-0140

## GETTING AROUND

All 2024 JSM registrants will receive one complimentary TriMet transit pass—good for the MAX light rail, streetcar, and buses across Portland—through the end of the meeting.

## JSM CAREGIVER GRANTS

The ASA is committed to fostering inclusive and supportive professional environments. By offering this grant funding, we hope to remove barriers and create pathways for caregivers to participate fully in JSM.

The ASA will reimburse members for costs of privately arranged child or elder care expenses, up to a maximum of \$300 USD per family. Priority will be given to those presenting on the official JSM program. Up to 25 grants are available.

### How to Apply

To be considered for a grant, you must submit a request via the 2024 JSM Care Giver Grant Application Form at <https://bit.ly/3JXQeej>. We will begin reviewing requests on June 15 and continue until the funding has been exhausted. Be prepared to include the following:

- Name and email address
- JSM registration confirmation
- Program participation information
- Projected amount of care expenses for the time of the meeting

To receive reimbursement, grant recipients must submit receipts for the care expenses with dates of care and names of dependents by August 15, 2024. Because many requested the flexibility to organize care that works best for their families, this program replaces the onsite child care service.

### Local Resources for Child Care Services and Day Camps

- Care.com, [www.care.com](http://www.care.com)
- NW Nannies LLC, <https://nwnannies.net>
- Oregon Museum of Science and Industry (summer day camps), <https://omsi.edu/camps-classes>
- Little Vikings (Portland State University drop-in daycare program), [www.pdx.edu/students-with-children/little-vikings](http://www.pdx.edu/students-with-children/little-vikings)
- Steve & Kate's Camp (drop-in rates and multiple activity options), <https://bit.ly/3wFCmCc>
- PDX Parent (full-week summer camp for all ages), <https://bit.ly/44FIUOV>



# Ready to Join Us at JSM?

## Three Ways to Register



### 1. ONLINE

[www.amstat.org/  
jsmregistration](http://www.amstat.org/jsmregistration)



### 2. MAIL

JSM Registration  
732 North Washington St.  
Alexandria, VA 22314-1943



### 3. FAX

(703) 997-7299  
Please fax both sides of the form.

### Payment

Payment must accompany registration. We are unable to accept purchase orders. Pay by credit card or make your check or money order payable to the American Statistical Association in US funds drawn on a US bank. The ASA Federal ID is 53-0204661.

### Cancelations/ Substitutions/Refunds

The abstract submission fee/ registration deposit is non-refundable. All cancelations and substitutions must be submitted in writing.

For registration and add-on items:

- Cancelations received by 5:00 p.m. ET on July 1, 2024, will incur a cancelation fee of 20% of each item canceled.
- Cancelations received by 5:00 p.m. ET on July 15, 2024, will incur a cancelation fee of 40% of each item canceled.

- Cancelations received after 5:00 p.m. ET on July 15, 2024, will not be refunded.

All cancelations and substitutions must be emailed to [jsm@amstat.org](mailto:jsm@amstat.org) or faxed to (703) 997-7299.

### ASA Emergency Contact for Travel Orders

Send travel orders to Ron Wasserstein at [edoffice@amstat.org](mailto:edoffice@amstat.org).

### Activities Conduct Policy

As a professional society, the American Statistical Association is committed to providing an atmosphere that encourages the free expression and exchange of ideas. Consistent with this commitment, it is the policy of the ASA that all participants in ASA activities will enjoy a welcoming environment free from unlawful discrimination, harassment, and retaliation.

All participants in ASA activities also agree to comply with all rules and conditions of the activities, which are subject to change without notice.

Please read the complete code of conduct at [www.amstat.org/meetings/code-of-conduct](http://www.amstat.org/meetings/code-of-conduct) before attending.

### Disclaimer and Waiver

The American Statistical Association intends to take photographs and video of this event for use in ASA news and promotional material in print, electronic, and other media, including the ASA website. By participating in this event, you grant the ASA the right to use any image, photograph, voice, or likeness, without limitation, in its promotional materials and publicity efforts without compensation. All media become the property of the ASA. Media may be displayed, distributed, or used by the ASA for any purpose.



Make sure to read the **Code of Conduct** at [www.amstat.org/meetings/code-of-conduct](http://www.amstat.org/meetings/code-of-conduct).





Register by fax: (703) 997-7299 or mail: 732 N. Washington St., Alexandria, VA 22314-1943. Registrations are not accepted by telephone or email.

First/Given Name      Middle Initial      Last/Family Name      Badge Name (if different than First Name)

Membership(s): (check all that apply)  ASA  CAS  CWS  ENAR  ICSA  IISA  IMS  ISBA  ISI  KISS  RSS  SSA  SSC  WNAAR

Organization      Registrant's ASA ID# (if known)

Address

City      State/Province      ZIP/Postal Code      Country (Non-US)

Phone      Email

Emergency Contact *In case of emergency, list the name and phone number of the person we should contact (remains confidential).*

**CHECK ALL THAT APPLY**

- I am a participant (speaker/panelist/discussant/chair/organizer/poster presenter).
- I am a first-time JSM attendee.
- I have a disability that requires special services (attach a statement of your needs).  
*We cannot guarantee an accommodation that is not made during early registration or regular registration.*
- Exclude my information from contact lists managed by the ASA for use by outside entities, including offers for onsite receptions, activities, and giveaways.
- Exclude my name from the conference attendee roster that will appear on the conference website.

**MEETING REGISTRATION FEES**

All fees are in US dollars (mark the appropriate box).

	Early May 1–June 3	Regular June 4–July 1	Late after July 1
Member ♦	<input type="checkbox"/> \$520	<input type="checkbox"/> \$578	<input type="checkbox"/> \$635
New ASA Member ♦♦	<input type="checkbox"/> \$656	<input type="checkbox"/> \$714	<input type="checkbox"/> \$772
Nonmember	<input type="checkbox"/> \$782	<input type="checkbox"/> \$872	<input type="checkbox"/> \$961
Student Member ♦	<input type="checkbox"/> \$142	<input type="checkbox"/> \$142	<input type="checkbox"/> \$142
K–12 Teacher	<input type="checkbox"/> \$89	<input type="checkbox"/> \$89	<input type="checkbox"/> \$89
Senior Member ♦	<input type="checkbox"/> \$231	<input type="checkbox"/> \$231	<input type="checkbox"/> \$231
Developing Country Resident ♦♦♦	<input type="checkbox"/> \$89	<input type="checkbox"/> \$89	<input type="checkbox"/> \$89
One-Day (onsite only)			<input type="checkbox"/> \$436

♦ Must have an active membership in one of the sponsoring societies and indicate it on your registration where asked  
 ♦♦ Includes discounted first-year ASA dues; not available to renewing or recently lapsed members  
 ♦♦♦ Must reside in one of the countries listed at <https://bit.ly/3mFKFTi>

**SOCIAL EVENTS**

**FOR FIRST-TIME ATTENDEES only:**

- YES! I will attend the JSM First-Time Attendee Orientation on Sunday, August 4, at 12:30 p.m.

**FOR STUDENT MEMBER registrants only:**

- YES! I will attend the Student Mixer on Monday, August 5, at 6:00 p.m.

**TOTAL REGISTRATION FEE**

MEETING REGISTRATION FEE      \$ \_\_\_\_\_

Discount Code \_\_\_\_\_

If you submitted an abstract and paid the mandatory, nonrefundable submission fee, enter the nontransferable discount code found on your submission confirmation email here.

**ADD-ONS**

TOTAL Roundtable/Speaker Cost      \$ \_\_\_\_\_

TOTAL Career Service Cost      \$ \_\_\_\_\_

TOTAL Professional Development Cost      \$ \_\_\_\_\_

TOTAL Guest Cost      \$ \_\_\_\_\_

**TOTAL REGISTRATION**      \$ \_\_\_\_\_

**PAYMENT INFORMATION**

(NOTE: We are unable to accept purchase orders as payment.)

- Check or money order enclosed payable to American Statistical Association (US funds on a US Bank)

**Credit Card:**

- Amex  Discover  MasterCard  VISA

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_ Security Code \_\_\_\_\_

Name of Cardholder \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

**ASA EMERGENCY CONTACT FOR TRAVEL ORDERS:** Kathleen Santoro at [meetings@amstat.org](mailto:meetings@amstat.org). Phone (703) 684-1221 • Fax (703) 997-7299  
 American Statistical Association, 732 N. Washington St., Alexandria, VA 22314-1943.

## PROFESSIONAL DEVELOPMENT

Prices are for May 1–July 1/After July 1

### CONTINUING EDUCATION COURSES

Member Nonmember Student

#### SATURDAY, AUGUST 3

CE_01C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_02C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_03C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_04C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_05C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_06C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_07C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_08C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200

#### SUNDAY, AUGUST 4

CE_09C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_10C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_11C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_12C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_13C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_14C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_15C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_16C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_17C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200

#### MONDAY, AUGUST 5

CE_18C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_19C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_20C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_21C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_22C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_23C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_24C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_25C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200

#### TUESDAY, AUGUST 6

CE_26C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_27C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_28C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_29C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_30C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_31C	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
CE_32C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_33C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200
CE_34C	<input type="checkbox"/> \$245/335	<input type="checkbox"/> \$320/430	<input type="checkbox"/> \$150/200

### PROFESSIONAL SKILLS DEVELOPMENT OFFERINGS

Member Nonmember Student

#### SUNDAY, AUGUST 4

CE_36P	<input type="checkbox"/> \$390/530	<input type="checkbox"/> \$520/700	<input type="checkbox"/> \$235/320
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### COMPUTER TECHNOLOGY WORKSHOPS \$60 / \$75 EACH

#### WEDNESDAY, AUGUST 7

<input type="checkbox"/> CE_37T	<input type="checkbox"/> CE_38T	<input type="checkbox"/> CE_39T	<input type="checkbox"/> CE_40T
<input type="checkbox"/> CE_41T	<input type="checkbox"/> CE_42T	<input type="checkbox"/> CE_43T	

### ACCREDITATION DISCOUNT

Accredited members of the ASA (PStat® or GStat) enjoy a 20% discount on Professional Development offerings.

I am PStat® or GStat accredited by the ASA.

### PROFESSIONAL DEVELOPMENT SUBTOTAL

\$ \_\_\_\_\_

20% accreditation discount \$ \_\_\_\_\_

### TOTAL PROFESSIONAL DEVELOPMENT COST

\$ \_\_\_\_\_

### GUEST BADGES \$84 per guest.

Enter names below.

Fee includes Sunday Opening Mixer, Tuesday Night Dance Party, and entrance into exhibit hall. Session attendance is not included.

\_\_\_\_\_  
Guest Name

\_\_\_\_\_  
Guest Name

\_\_\_\_\_  
Guest Name

**TOTAL GUEST COST** \$ \_\_\_\_\_

## ROUNDTABLES AND SPEAKERS WITH LUNCH

### A.M. ROUNDTABLES

\$25 each; includes continental breakfast. Indicate your first and second choices by marking 1 and 2.

**MONDAY AUGUST 5**      **TUESDAY AUGUST 6**      **WEDNESDAY AUGUST 7**

ML01\_\_\_\_      TL01\_\_\_\_      WL01\_\_\_\_

ML02\_\_\_\_      TL02\_\_\_\_      WL02\_\_\_\_

ML03\_\_\_\_      TL03\_\_\_\_      WL03\_\_\_\_

### P.M. ROUNDTABLES

\$50 each; includes meal. Indicate your first and second choices by marking 1 and 2.

**SUNDAY AUGUST 4**      **MONDAY AUGUST 5**      **TUESDAY AUGUST 6**      **WEDNESDAY AUGUST 7**

SL01\_\_\_\_      ML04\_\_\_\_      TL04\_\_\_\_      WL04\_\_\_\_

ML05\_\_\_\_      TL05\_\_\_\_      WL05\_\_\_\_

ML06\_\_\_\_      TL06\_\_\_\_      WL06\_\_\_\_

ML07\_\_\_\_      TL07\_\_\_\_      WL07\_\_\_\_

ML08\_\_\_\_      TL08\_\_\_\_      WL08\_\_\_\_

ML09\_\_\_\_      TL09\_\_\_\_      WL09\_\_\_\_

ML10\_\_\_\_      TL10\_\_\_\_      WL10\_\_\_\_

ML11\_\_\_\_      TL11\_\_\_\_      WL11\_\_\_\_

ML12\_\_\_\_      TL12\_\_\_\_      WL12\_\_\_\_

ML13\_\_\_\_      TL13\_\_\_\_      WL13\_\_\_\_

MEAL CHOICE:  Regular  Vegetarian

**TOTAL ROUNDTABLES/SPEAKER COST** \$ \_\_\_\_\_

### CAREER SERVICE

Applicant Options—Includes online access to job postings.

	ASA Member	Nonmember
Student	<input type="checkbox"/> \$50	<input type="checkbox"/> \$75
Nonstudent	<input type="checkbox"/> \$100	<input type="checkbox"/> \$150

**TOTAL CAREER SERVICE COST** \$ \_\_\_\_\_

# JSM IS THE STATISTICAL EVENT OF THE YEAR!

Don't miss this exciting opportunity! Register now.



## JUNE 3

Early registration deadline  
Speaker registration deadline

## JULY 1

Regular registration deadline

## JULY 5

Housing deadline

## AUGUST 3–8

2024 Joint Statistical Meetings



Register online at  
[www.amstat.org/  
jsmregistration](http://www.amstat.org/jsmregistration).

### JSM IS HELD JOINTLY WITH THE:

\*American Statistical Association  
Casualty Actuarial Society  
The Caucus for Women in Statistics  
\*International Biometric Society (ENAR and WNAR)  
International Chinese Statistical Association  
International Indian Statistical Association  
\*Institute of Mathematical Statistics

International Society for Bayesian Analysis  
International Statistical Institute  
Korean International Statistical Society  
Royal Statistical Society  
\*Statistical Society of Canada  
Statistical Society of Australia  
*\*Indicates a JSM founding society*

American Statistical Association  
732 North Washington Street  
Alexandria, VA 22314-1943 USA

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## THANK YOU TO OUR 2024 JSM SPONSORS

### PLATINUM



### GOLD



### SILVER



Want to support JSM 2024? It's not too late.

Find out more at [www.amstat.org/jmsponsors](http://www.amstat.org/jmsponsors) or email ASA Director of Marketing and Membership Development Amy Farris at [amy@amstat.org](mailto:amy@amstat.org).