

July 2024 • Issue #565

AMSTATNEWS

The Membership Magazine of the American Statistical Association • <http://magazine.amstat.org>



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ELECTED VICE PRESIDENT



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JULY 2024 • ISSUE #565

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American Statistical Association



The American Statistical Association is the world's largest community of statisticians. The ASA supports excellence in the development, application, and dissemination of statistical science through meetings, publications, membership services, education, accreditation, and advocacy. Our members serve in industry, government, and academia in more than 90 countries, advancing research and promoting sound statistical practice to inform public policy and improve human welfare.

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STATtr@k is a column in *Amstat News* and a website geared toward people who are in a statistics program, recently graduated from a statistics program, or recently entered the job world. To read more articles like this one, visit the website at <http://stattrak.amstat.org>. If you have suggestions for future articles, or would like to submit an article, please email Megan Murphy, *Amstat News* managing editor, at megan@amstat.org.

- 32 **STATS4GOOD**
JSM 2024 a Data for Good Treasure Trove

This column is written for those interested in learning about the world of Data for Good, where statistical analysis is dedicated to good causes that benefit our lives, our communities, and our world. If you would like to know more or have ideas for articles, contact David Corliss at davidjcorliss@peace-work.org.



Nominations Open for International Prize in Statistics

Nominations are open through October 1 for the 2025 International Prize in Statistics, awarded for a major achievement developed over time. The prize—which can be awarded to individuals, teams, or organizations—is meant to recognize powerful ideas that have led to breakthroughs in statistics and data science and demonstrated impact on applications, methodology, theory, or practice.

Scan the QR code above or visit www.statprize.org/nominations.cfm for details and the nomination form. Questions may be directed to nominations@statprize.org or ASA Executive Director Ron Wasserstein at ron@amstat.org.

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Network, Learn, Grow

Looking at the Joint Statistical Meetings program, I can see program committee chair Debashis Ghosh and the entire JSM program committee, as well as their partners, have put together a high-quality and exciting program. Thank you, program committee members, for your dedication and service.

While this is my first Joint Statistical Meetings as an ASA president, I have attended many times as either a student, early-career professional, ASA section chair, or statistics group leader. Those experiences helped me with the following top 10 tips for successful attendance.

1. Plan Ahead

Preparing for JSM is like preparing for an exam. You need to review the program; highlight sessions, meetings, and presenters that align with your interests and professional goals; and download the conference app (guidebook.com/app/amstatevents) to create your schedule and have the most up-to-date information on hand.

I typically search for invited sessions cosponsored by the ASA sections (disciplinary areas) with which I identify best; I also search for keywords of interest such as “countering misinformation” or “public policy,” parts of this year’s theme. Once I have my mornings and afternoons planned, I search for receptions/mixers, which provide free food (bonus) and offer a chance to meet old friends and new colleagues. These receptions are a great place to meet people and reflect on the ideas and approaches that were part of the day’s program.

Of course, serendipity will take over once the meetings begin, but it is helpful to have a tentative plan on which to build.

2. Set Objectives

What do you want to achieve from JSM 2024? Are you looking to expand your knowledge, meet potential collaborators, find volunteer opportunities, or explore new job opportunities? There are many excellent options, so you will need to prioritize and make choices.

In addition to your professional goals, I encourage you to make one of your objectives doing

something fun in Portland. A benefit of attending a conference is exploring the location. My list includes the Peninsula Park Rose Garden (bit.ly/3Xv5tmQ), the food cart scene (bit.ly/3VwLiG8), and Powell’s Books (www.powells.com).

3. Network Strategically

Be ready to introduce yourself or stand by someone who can introduce you. At my first JSM in Anaheim, California, I stood by my Penn State Department of Statistics chair Jim Rosenberger because he appeared to know everyone and would kindly make helpful introductions. Jim has been an incredible mentor to many!

In the JSM app, you will find information about social events (mixers) and open business meetings, which you should try to attend. Also, don’t hesitate to strike up conversations during breaks. JSM is a celebration of our community, so seize the opportunity to meet colleagues and make new friends.

Before JSM, you may want to practice an elevator pitch (bit.ly/4crFRLU). You never know who you might meet while riding your hotel elevator.

4. Attend the Plenary Sessions

The plenary sessions often reflect the JSM theme or major developments in the field. The President’s Invited Address speaker is Jason Matheny, CEO of RAND, a research organization that develops solutions to public policy challenges. In his keynote, titled “Working at the Intersection of Statistics and AI Policy,” he will discuss open problems in artificial intelligence and statistics.

Jason is a recipient of the Intelligence Community’s Award for Individual Achievement in Science and Technology, the National Intelligence Superior Service Medal, and the Presidential Early Career Award for Scientists and Engineers. He was named one of Foreign Policy’s top 100 global thinkers, and his work has been called one of the “ideas of the year” by *The New York Times*. I hope to see you at Jason’s talk, as well as my address and the awards ceremony, followed by a celebration (with DJ and dancing).



Madhumita (Bonnie) Ghosh-Dastidar



MORE ONLINE

Visit the JSM website for details and to register.
ww2.amstat.org/meetings/jsm/2024

There are star-studded plenary talks every day of the conference:

Monday, August 5, 2:00 p.m.

Medallion Lecture I

Annie Qu

“Data Integration for Heterogeneous Data”

Tuesday, August 6, 10:30 a.m.

IMS Grace Wahba Lecture

Nancy Reid

“Models and Parameters: Inference Under Model Misspecification”

Tuesday, August 6, 2:00 p.m.

Medallion Lecture II

Jing Lei

“Uncertainty Quantification with Nonparametric and Black-Box Models”

Tuesday, August 6, 2:00 p.m.

COPSS Elizabeth L. Scott Lecture

Regina Liu

“Fusion Learning: Combining Inferences from Diverse Data Sources”

Tuesday, August 6, 4:00 p.m.

Deming Lecture

William H. Woodall

“Innovation: Deming’s Views and the Role of Statistics”

Wednesday, August 7, 2:00 p.m.

Medallion Lecture III

Alicia Carriquiri

“Statistics and Its Application in Forensic Science and the Criminal Justice System”

Wednesday, August 7, 4:00 p.m.

COPSS Distinguished Achievement Award and Lectureship

Robert Tibshirani

“Pre-Training and the Lasso”

In addition to featured speakers, the introductory overview lectures and late-breaking session are great opportunities to hear from leaders and innovators. Here are a few highlights: “Quantum Computing for Statisticians” (Monday, 8:30 a.m.); “Statistics and Large Language Models” (Tuesday, 8:30 a.m.); and “Statistics in the Age of AI: A Town Hall with an Expert Panel” (Monday, 2 p.m.).

Looking at the featured speakers and sessions, I am inspired and proud of our community.

5. Participate Actively

Asking respectful questions makes a session more memorable for the speaker while reinforcing your learning. If you do not have a question, introduce yourself to the presenter after the talk and express appreciation for the session and their work.

6. Share via Social Media

Follow #JSM2024, post photos and insights, and participate in online discussions. This helps you connect with like-minded colleagues. Also, encourage folks to attend your presentation! Let’s create a buzz.

7. Visit the EXPO

The EXPO contains a treasure trove of information about the latest products, services, and innovations. Take the time to visit the booths, engage with exhibitors, and gather information that could benefit your work or organization. Also, JSM Spotlight is inside the EXPO. There is something new and fun to try every day. Rumor has it Portland’s famous (and vegan) Blue Star Donuts are on the menu.

8. Take Notes

Bring a notebook or use a digital device to take notes during sessions. Jot down key points, interesting ideas, and potential follow-up actions. The phrase “drinking from a fire hose” comes to mind when thinking about all the knowledge presented at JSM. Having notes will help you when you return home and want to implement what you have learned.

9. Follow Up After Conference

After JSM, follow up with the people you met. Send emails or connect on LinkedIn. It is fun to reminisce, and connecting will open doors for future collaborations.

10. Implement What You’ve Learned

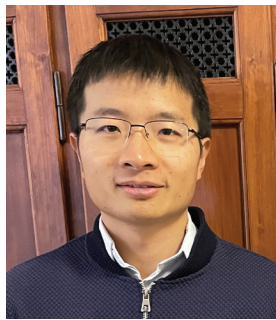
Share what you learned with your team, propose new ideas, and implement strategies that could open new pathways.

Summer brings long days in the northern hemisphere and an invitation to relax; unwind; and catch up on reading, friends, and family. Also, we are at the start of July, or the halfway point of my presidential year. I have learned so much from the ASA community and am excited to meet many of you at the meeting. Let’s talk at JSM and beyond about how we can grow our ASA community by broadening our collaborations and opportunities.

M. Ghosh Dastidar

MY ASA STORY

Weijie Su, Associate Professor



I was thrilled to receive an invitation to contribute to the My ASA Story series. It prompted me to reflect on how my career has been intertwined with the ASA through various channels. The more I thought about it, the more I realized how much I have benefited

opportunity provided by the ASA and JSM to contribute to my community, and I look forward to meeting colleagues interested in exploring the possibilities between statistics and AI.

My involvement with the ASA is multifaceted and extends beyond JSM. Earlier this spring, I participated in an ASA town hall about the role of statistics in the future of AI, moderated by Associate Executive Director Donna LaLonde and Executive Director Ron Wasserstein. It was inspiring to see so many colleagues in our community care about the future of our field.

from the ASA.

My ASA journey began in the summer of 2015, when I attended my first Joint Statistical Meetings in Seattle during my fourth year as a PhD student at Stanford. It was then that I became an ASA member. Attending that JSM was an eye-opening experience, making me realize how exciting and vibrant statistics is as a discipline. I also presented “Early False Discoveries Along the Lasso Path,” which was perhaps my first academic talk. Not surprisingly, I was nervous while delivering the presentation.

Just one year later, in 2016, I graduated from Stanford and moved to the East Coast to join Wharton as an assistant professor. By chance, my colleagues Larry Brown and Linda Zhao mentioned they had attended my JSM talk in Seattle and were impressed by my research. Had I not attended JSM as a PhD student, I might not have had the opportunity to interview at Wharton! This experience taught me the importance of giving your best at JSM talks, as your future colleagues might be in the audience.

From that moment on, I felt at home within the ASA and realized the value of attending JSM. In return, I hoped to make my contribution by actively organizing sessions at JSM. Perhaps due to my statistical training in the Bay Area, where there is an atmosphere of machine learning and AI, my sessions often focus on emerging topics at the intersection of statistics and machine learning. I have covered subjects such as statistical uncertainty quantification in online learning and privacy-preserving data analysis.

At the upcoming JSM in Portland, I will offer a short course on large language models with my colleagues Emily Getzen and Linjun Zhang and chair a session on the same topic. I am excited about this

Looking back, I can say with certainty the ASA has been an integral part of my professional journey.

Last year, I gave a talk during the Statistical Learning and Data Science Section monthly webinar series about our experiment at the 2023 International Conference on Machine Learning using statistical methods to improve peer review at machine learning conferences. I have also been an associate editor for the *Journal of the American Statistical Association* since early last year and had the honor of receiving the ASA Noether Early Career Scholar Award.

Looking back, I can say with certainty the ASA has been an integral part of my professional journey. My encounters and experiences with the ASA are countless, but they all share a common theme: The ASA consistently provides the best possible platform for statisticians to make a difference. I am deeply grateful for the support, inspiration, and sense of belonging this organization has given me throughout my career. To the young generation of statisticians, my advice is that now is the best time to do statistics and unleash your potential. Please actively engage with the ASA. Together, let us shape the future of statistics! ■



JERI MULROW ELECTED 2026 ASA PRESIDENT

F. DUBOIS BOWMAN ELECTED VICE PRESIDENT



Jeri Mulrow was recently elected the 121st president of the American Statistical Association. Her term begins January 1, 2026, with a one-year term as president-elect beginning January 1, 2025.

Acknowledging the impact of the ASA on her professional development, Mulrow is committed to paying it forward so other statisticians and data scientists have their own opportunities to advance their technical knowledge, communication and collaboration skills, and leadership experiences. Mulrow will also continue to raise awareness of the value of statistics and data science to our broader societies, advocate for equitable and representative data to make decisions, and support statistical and data science literacy at all ages.

“The best thing about the ASA is it continues to grow and evolve as we, its members, adapt to meet the changing statistical needs of our times,” Mulrow said.

As vice president and sector lead, data solutions, at Westat, Mulrow leads statistics and data science, as well as complex survey operations, working collaboratively to promote efficiency and facilitate innovative research solutions. Her areas of statistical expertise include sampling and estimation methodologies, survey methodology and design, data quality and process improvement, and data visualization and information dissemination. Prior to joining Westat in 2019, Mulrow served as the principal deputy director for the Bureau of Justice Statistics in the US Department of Justice, providing leadership and oversight of the design, collection, analysis, and dissemination of data on the US justice system.

Mulrow became a member of the ASA as a graduate student. Her service to the ASA includes Council of Sections Governing Board representative to the ASA Board of Directors from 2009 to 2011 and vice president from 2014 to 2016. Mulrow is an elected fellow of the ASA and an active member of the Washington Statistical Society.

F. DuBois Bowman was elected to serve as ASA vice president. His term will begin January 1, 2025. During his tenure, he looks forward to working with colleagues and peers across the ASA to position the field as a changemaker and influencer on a range of disciplines and key issues.

Bowman notes, “This is an exciting moment for statisticians to lead on some of our most pressing issues in society, including rapidly evolving AI technologies, climate change, combating misinformation, and more.”

Bowman has been dean of the University of Michigan School of Public Health since 2018. His research program mines massive data sets and has implications for mental and neurological disorders such as Parkinson’s disease, Alzheimer’s disease, depression, schizophrenia, and substance addiction.

Bowman is an elected member of the National Academy of Medicine, a member of the American Association for the Advancement of Science, an elected fellow of the ASA, and a past president of the Eastern North American Region of the International Biometric Society. He is a member of the editorial board for the *Annual Review of Statistics and Its Application* and has served as associate editor of both *Biometrics* and the *Journal of the American Statistical Association*.

The ASA membership also elected the following board members:

- **David Corliss**, Grafham Analytics, Board of Directors Council of Chapters Representative, 2025 to 2027
- **Sharina Person**, University of Massachusetts Medical School, Board of Directors Council of Sections Representative, 2025 to 2027

ASA members vote for candidates of their choice to the open positions on the board of directors two years before the beginning of the elected officers’ terms. This process allows the newly elected officers to serve a year as a director or officer-elect before they serve their elected term.

2026 Candidates

Nominees for president-elect and vice-president for the election to be held in spring 2025 are the following:

President: Fred Hulting, Brian Millen

Vice President: John Abowd, Julia Sharp

The ASA membership also elected the following section officers:

Bayesian Statistical Science

Chair-Elect 2025
Candace Berrett
Brigham Young University

Program Chair-Elect 2025
Sally Paganin
The Ohio State University

Secretary/Treasurer 2025–2026
Andee Kaplan
Colorado State University

Council of Sections
Representative 2025–2027
Marco Ferreira
Virginia Tech

Biometrics

Chair-Elect 2025
Ana Ortega Villa
National Institutes of Health

Secretary/Treasurer 2025–2026
Dipankar Bandyopadhyay
Virginia Commonwealth University

Biopharmaceutical

Chair-Elect 2025
Steven Novick
Takeda

Program Chair-Elect 2025
Inna Perevoskaya
GlaxoSmithKline

Publications Officer 2025–2027
Meijing Wu
Sanofi

Council of Sections
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Novartis

Business and Economic Statistics

Chair-Elect 2025
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Northwestern University

Program Chair-Elect 2025
Yao Zheng
University of Connecticut

Secretary/Treasurer 2025–2026
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Georgia Southern University

Statistical Computing

Chair-Elect 2025
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University of British Columbia

Program Chair-Elect 2025
Benjamin Baumer
Smith College

Council of Sections
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Haim Bar
University of Connecticut

Statistical Consulting

Chair-Elect 2025
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University of Colorado Anschutz
Medical Campus

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Daryl DeFord
Washington State University

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University of California at
San Francisco

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University of Florida College
of Medicine

Achraf Cohen
University of West Florida

Statistics and Data Science Education

Chair-Elect 2025
Ulrike Genschel
Iowa State University

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Allison Davidson
Muhlenberg College

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2025–2027 (two positions)
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Capital University

Matthew Beckman
Penn State

Statistics in Defense and National Security

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Johns Hopkins Applied Physics
Laboratory

Program Chair-Elect 2025
Danny Ries
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Publications Officer 2025–2026
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Johns Hopkins Applied Physics
Laboratory

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Iowa State

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Program Chair-Elect 2025
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Program Chair-Elect 2025
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Program Chair-Elect 2025
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Program Chair-Elect 2025
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Fred Hutchinson Cancer Research Center

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University of Southern California

Program Chair-Elect 2025
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Washington University in St. Louis

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Chair-Elect 2025
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Illumina

Program Chair-Elect 2025
Cristiana Mayer
Johnson & Johnson Vision

Mental Health Statistics
Chair-Elect 2025
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Program Chair-Elect 2025
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Albert Einstein College of Medicine

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School of Public Health

**Nonparametric
Chair-Elect 2025**
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Program Chair-Elect 2025
Hao Chen
University of California at Davis

**Treasurer 2025 (Rotates to
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**Physical and Engineering Sciences
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Program Chair-Elect 2025
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North Carolina State University

**Statistical Programmers and Analysts
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Eli Lilly and Company

Program Chair-Elect 2025
Dhuly Chowdhury
RTI International

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University of Dayton

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Chair-Elect 2025**
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LinkedIn

Program Chair-Elect 2025
Qiong Zhang
Clemson University

**Risk Analysis
Chair-Elect 2025**
Yichuan Zhao
Georgia State University

Program Chair-Elect 2025
Rajeshwari Sundaram
National Institute of Child Health
and Human Development

**Social Statistics
Chair-Elect 2025**
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Program Chair-Elect 2025
Xiaojing Wang
University of Connecticut

Publications Officer 2025–2026
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Champaign

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Southern Methodist University

Program Chair-Elect 2025
Weining Shen
University of California at Irvine

**Survey Research Methods
Chair-Elect 2025**
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Columbia University

Program Chair-Elect 2025
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Westat

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Emily Berg
Iowa State University

Education Officer 2025–2026
Jingchen (Monika) Hu
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RTI International

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Health Sciences
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Amanda Ellis
University of Kentucky

**Council of Sections
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Jacqueline Milton-Hicks
Boston University

**Text Analysis
Chair-Elect 2025**
Brandon Sepulvado

Welcome TO OUR NEWEST MEMBERS

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Jonathon Abernethy	Paulina Betancourt	Onrina Chandra	Nathan Allan Coe
Emmanuella	Sayan Bhadra	Hsing-Yi Chang	Scott Robert Colwell
Acheampong	Riya Bhatla	Alec Chapman	Lily Painton Cook
David Ackuaku	Prattay Bhattacharya	Lori Jean Chappell	Gavin R. Corral
Erin C.S. Acquesta	Mohammad Alfrad	Yuan Chen	Diego Cortes
Abdullahi Adam	Nobel Bhuiyan	Yichao Chen	Audriana Cowans
Rachael Adcock	Mohammad J. Bhuyan	Will Chen	James D. Crim
Boaz Adler	Adam I. Birnbaum	Tinghua Chen	Kevin A. Crookston
Daniel Wright Adrian	Evan Bittner	Tina Chen	Sarah Cumbers
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Naima Alam	Relay Therapeutics	Ruining Chen	William Daniels
Siddiq Ali	Julia Bohman	Ruifeng Chen	Elizabeth M. Davis
Mohamed Aly	Stefan Böhringer	Qiuxu Chen	Cali Manning Davis
Mohammed Alzahrani	Howard D. Bondell	Nathan Chen	Amber Day
Manolis	Derrick Kwesi Bonney	Min Chen	Anthony Daykin
Antonoyiannakis	Debraj Bose	Lu Chen	Irina Degtiar
Geofrey Anyuga	Patrick Bossuyt	Jieyu Chen	Margaux Delporte
Frank Appiah	Anders C. Boyd	Haobin Chen	Justin Beau DeMonte
Gabrielle Apsay	Jonathan William	Geping Chen	Gabriel Demuth
Sebastian Mihaita	Brinkerhoff	Chou-Lin Chen	Yuhao Deng
Armasu	Brendan Thomas	Bo-yu Chen	Ke Deng
Prerna Asthana	Broderick	Bo Chen	Fengnan Deng
Seyda Aydin	Christopher E. Brown	Ariel Chen	Annan Deng
Abraham Ayebo	Barbara H. Brumbach	Si Cheng	Denis Desmond
Olamide T. Ayodele	Paula Buchanan	Ge Cheng	Maria DeYoreo
Aaron Bachman	Prince A. Buti	Kyeongmi Cheon	Baboucarr Dibba
Yang Bai	Zhongheng Cai	Erica Cheon	Matthew Dickinson
Isaac Yuyu Bai	Ruilie Cai	Anirban Chetia	Zhuoran Ding
Dexter P. Baño	Alejandro Calle-	Tanvi Chheda	Yuxin Ding
Rachel Banoff	Saldarriaga	Taku Chikamochi	Dang Dinh
Anna Bargagliotti	Eunice Campirán	Sahil Chindal	Vaidehi Ulhas Dixit
Arnold I. Barnett	Haniel Campos	Young Hyun Cho	Kevin R. Dixon
Tyson Barrett	Quy Xuan Cao	Seonghun Cho	Thomas G. Dolan
Raquibul Bashar	Holly Cast	Junsouk Choi	Shun Dong
Andrew Taylor Bean	Gabriela Centers	Allen Choi	Mingfei Dong
Taylor Beaubien	Catherine Chalikian	Shuyu Chu	Li Dong
Elizabeth D. Beazley	Kurtis Chan		

Katharine Dooley
 Parth Doshi
 Bob Downer
 Lin Du
 Jiawei Duan
 Kline Perryman DuBose
 Luke Duttweiler
 Kevin J. Dykema
 Kumafan Shadrach Dzaan
 Tamer Elbayoumi
 Peter W. Elliott
 Markus Emmott
 Matthew Engelhard
 Brody E. Erlandson
 Rachel Erwin
 Fabiola Etienne
 Ayesha M. Facey
 Yu-Ting Fan
 Cha-Chi Fan
 Xinyi Fang
 Michael Feldman
 Yongzhen Feng
 Xiaoshu Feng
 Adrian Fischer
 Abigail Fitzpatrick
 Kenneth Frank
 Jinwen Fu
 Emanuela Furfaro
 Johann Gaebler
 Daniel Joseph Gajewski
 Jianjun Gan
 Sihaoyu Gao
 Leiwen Gao
 Jie Gao
 Jenny Gao
 Eric Gao
 Randi Leigh Garcia
 Jacob Gardner
 Zoie Gavel
 Promise Gbama
 Isaac Gbene
 Xinzhou Ge
 Monica Gerber
 Jonathan Gersch
 Jennifer Geske
 Souparno Ghosh

New Member Spotlight: ROBERT HERNANDEZ

This month, we spotlight one of our new members, Robert Hernandez, who answered the following questions so we could get to know him better:



Hernandez

How did you become interested in statistics and/or data science?

For as long as I can remember, I've liked numbers. Once I entered high school and started taking statistics, I became a big fan of how much they can help solve real-world problems and are applicable to basically anything that involves data. Also, I've played baseball since I was four years old and there's no escaping statistics in either playing or watching it, so I'm sure that also played a big part.

What do you consider your dream job?

I've been working as a biostatistician for the past few years and I've really loved it. I enjoy helping others in their pursuit of knowledge and being able to explore a variety of different medical research areas, which is exactly what I do in my day-to-day tasks.

What do you hope understanding statistics and/or data science helps you accomplish?

I hope that, with my continued increase in statistics understanding, I can develop a better sense and more holistic view of the world around us and make significant contributions to improving and understanding it.

Is there a particular group of statisticians you would like to reach out to you?

I really enjoy learning about graphics and figures and also find all the intricacies of consulting interesting. I'm currently a member of both these sections, but it would be great to get to know these communities better.

What is your favorite hobby?

I recently started playing golf and haven't been able to stop. I honestly think having a good amount of numbers involved (handicap, swing speed, greens in regulation, fairways hit, etc.) has a lot to do with it.

What is something you would like people to know about you that we haven't asked?

I am bilingual (English/Spanish) and currently working on learning Portuguese, Italian, French, and German.

NEW MEMBERS

Durbadal Ghosh	Xian He	Brice Huang	George G. Kariuki
Clajerson Gimena	Tianhong He	Rick A. Hudson	Ranju Karki
Ryan Giordano	Qijia He	Sophia Huebler	Yuxuan Ke
Jeff Goetz	Huan He	Marla Jean Husnik	Jonathan Keane
Kemal Gogebakan	Chad He	Wen-Han Hwang	Drew Kearny
Chiraag Gohel Isaac Goldstein	Sarah E. Hegarty	Yosuke Inaba	Katherine Keith
Ali Goli	Ilya Hekimi	Jennifer K. Inlow	Manoj Khanal
Brian Keith Goodwin	Andrew Z. Heneghan	Rebecca Irlmeier	David Khella
Peter Goos	Maria Paula Duenas Herrera	Nicholas Jon Irons	Yousra Kherabi
Joe Gordon	Nathan Hill	Dane Isenberg	Yoonha Kim
Dennis Görlich	Sophia Hillard	Ayelet Israeli	Yeji Summer Kim
Sean Patrick Grant	Ryan Hiner	Siavash Jalal	Wooyoung Kim
Richard Grigorian	Bianca Nicole Hinojosa	Sara Jamshidi	Kun Ho Kim
Piercesare Grimaldi	Berkeley Ho	Parsa Jamshidian	Inyoung Kim
Nina Grundlingh	Andrea Hobby	Soham Jana	Bo Young Kim
Yuxuan Gu	Lauren Allyn Hochman	Holly Janes	Tyler W. Kincaid
Yuqi Gu	Tahlia Hodes	Xiangyu Ji	Brian Knaeble
Niya Gu	Emilie Højbjerg-Frandsen	Yichen Jia	Marina Knight
Mengyang Gu	James Hollister	Sanofi Yichen Jia	Yi-An Ko
Jiaqi Gu	Guanglei Hong	Yanwei Jia	Frederic Koehler
Subharup Guha	David Hornick	Calvin Jia	Yunchuan Kong
Toni Gui	Belal Hossain	Yun Kai Jiang	Jiajie Kong
Ashish Gumaste	Erin Howard	Yue Jiang	Stefan Konigorski
Yongyi Guo	Martin S. Hsu	Xiaoran Jiang	Kelly Konrath
Xingche Guo	Joy Hsu	Shuang Jiang	Gitte Kremling
Tianyu Guo	Axio	Ruben Dario Jimenez	Katherine Kreuser
Bufei Guo	Xiaofei Hu	Zhilin Jin	Charlotte Kuebitz
Natalie Grace Guthrie-Dixon	Wenjie Hu	Yutong Jin	Naishu Kui
Wooseok Ha	Di Hu	Kexin Jin	Shivam Kumar
Joshua Hacker	Chaoran Hu	Huaqing Jin	Saki Kuzushima
David W. Hall	Ashlee Hu	Chan-Hee Jo	Jungmin Kwon
Adam Christopher Hall	Yu-Jyun Huang	Scot Johnson	Anna Kye
DaeWoong Ham	Xiaofan Huang	Kristen E. Johnson	Eva Laczka
David K. Hammond	Rong Huang	Nianqiao Phyllis Ju	Zach Laguna
Lisa Hampson	Ming-Yueh Huang	Yoon Bae Jun	Glen H. Laird
Yu Han	Melody Huang	Inyoung Jun	Stanley Lam
Sunwoo Han	Kun Huang	Sungkyu Jung	Boris Landa
Stacey Hancock	Jingyue Huang	Rui Kang	David C. Landy
Philip Q. Hanser	Jie Jenny Huang	Ni Kang	Victoria Lazariu
Linda Jane Harrison	Jiaoyang Huang	Gyeonghun Kang	Johannes Lederer
Jennifer Hartman	Hsueh-Han Huang	Bokgyeong Kang	Yonghoon Lee
Gabriel W. Hassler	Dalong Huang	Rittwika Kansabanik	Yeon Lee
Gregory Hather	Chien-Min Huang	Andee Kaplan	Alsac Seungwon Lee
		Ananya Kapoor	Sang-wook Lee
		Farzaneh Karimi	Namhwa Lee

NEW MEMBERS

Jung Wun Lee	Justin Lin	Wei Ma	Gary E. Moore
Hyoeun Lee	Junjing Lin	Qin Ma	Behnaz Moradi-Jamei
Donghyung Lee	Mei-Hsiu Ling	Ningxin Ma	Moradijamei
Bonwoo Lee	Megan Lipke	Liang Ma	Gemma Moran
Benjamin Lee	Zilu Liu	Jen-Fue Maa	Leanna Moron
Anna Legedza	Zihuan Liu	Margaret MacDougall	Gabriel Morrison
Yang Lei	Yiling Liu	Emma K. Mackay	Sepideh Mosaferi
Spero Rayleigh Lei	Xiexin Liu	Tshepo Maja	Erin Laverne Moshier
Daniel LeJeune	Xialu Liu	Sylvie Makhzoum	Debarghya Mukherjee
Claudia Solis-Lemus	Shufang Liu	Betzaida Maldonado	Yuriko Muramatsu
Ryan Lerch	Shubin Liu	Bradley A. Malin	Aisiri Murulidhar
Tim Leung	Shifang Liu	Daniel Manrique-Vallier	Donald Musgrove
Zhuo Li	Rongzi Liu	Fangya Mao	Razieh Nabi
Zhigang Li	Peng Liu	Paolo Maranzano	Christy Nakad
Yihao Li	Mingshuo Liu	Andrew D. Marble	Shinjini Nandi
Yan Li	Jinyuan Liu	Dobrin Marchev	Debarghya Nandi
Xinyu Li	Jie Liu	Pablo Martinez-Cambor	Anirban Nath
Xingyu Li	Jiarui Liu	Maya Mathur	Farouk Nathoo
Xingchi Li	Jialuo Liu	Zarah Mattox	John Newell
Xia (Shelly) Li	Jeen (Jing-ou) Liu	Robert A. Mayer	Georges Nguefack-Tsague
Wei Na Li	In-Lu Amy Liu	Cory McCartan	Ty Nguyen
Siqi Li	Emily Liu	Scott McClintock	Quynh Nguyen
Sijia Li	Chris Y. Liu	Katelyn McClure	Quang Nguyen
Shaoyi Li	Cathy Liu	Emmy McCoy	Carrie Nielson
Rong Li	Brian Livian	David Mease	Taylor Nii
Peike Li	Semyon Lomasov	Eric Mena	PoYao Niu
Mingyao Li	Shannon Riley Long	Xianzhang Meng	Hongqian Niu
Lu Li	Shuyuan Lou	Octavio Cesar Mesner	Kimihiro Noguchi
Linghui Li	Jaylin Lowe	Nathan R. Meyer	Majid Noroozi
Jiayin Li	Ashley M. Lowry	Austin Meyer	Kaidar Nurumov
Jianling Li	Yiwen Lu	Junhui Mi	Dora Obodo
Hao Li	Ying Lu	Yuqi Miao	Eric Odoom
Deliang Li	Yimeng Lu	Xinran Miao	Alexander Dwamena
Caesar Zexuan Li	Ruihan Lu	Terry Ming	Oofosu
Ya Ting Liang	Yuanyuan Luan	Mojde Mir	Jenny Marie Ogden
Haodi Liang	Sori Kim Lundin	Luke Weisman Miratrix	Ayodele Ogunsakin
Hairan Rodger Liang	Kathryn L. Lunetta	Nikhil Mirpuri	Sarah Ogutu
Annie Liang	Han Luu	Animesh Mitra	Sun Mee Ohr
Jeong Youn Lim	Cara Lwin	Aditya Mittal	Akira Okazaki
Yuzhou Lin	Zhongyuan Lyu	Qianxing Mo	Martin Ondrus
Yizi Lin	Weicong Lyu	Kusha A. Mohammadi	Vincent Onyame
Wenyi Lin	Jiangnan Lyu	Sevda Molani	Samuel Frimpong Osarfo
Wenjiao Lin	Guanjie Lyu	Phil Moll	Akunna Otele
Shurong Lin	Yunqing Ma	Angira Mondal	Daisy Awuor Ouko
Licong Lin	Yaohua Ma	Erika Montoya	

NEW MEMBERS

Omoshola S. Owolabi	Charles Ritter	Tao Sheng	Ozge Surer
Roland Owusu	Eduardo Ochoa Rivera	Aaron Shev	Leah H. Suttner
Jett Palmer	Yaritza Rivera	Xueheng Shi	Lev S. Sverdlov
Hancong Pan	Guillaume Rochefort- Maranda	Ruxin Shi	Masataka Taguri
Lara Papasian	Lisa R. Rodriguez	Jieru Shi	Ali Reza Taheriyoun
Deepak Parashar	Ricardo Lance Rojas	Arusha Siddiqi	Zsolt Talata
Taeyong Park	Ogonnaya Michael Romanus	Sakar Sigdel	Songhua Tan
Seongoh Park	Franka Römig	Nathaniel Simone	Yusuke Tanaka
Sae Na Park	Jennifer S. Rose	Ravinder Singh	Yiwei Tang
Lam Research	Tristan Micheal Roske	Richard J. Sizelove	Yanan Tang
Junyoung Park	Damon R. Ross	Seth Slettedahl	Weiqing Tang
Hyung Gyu Park	Jonathan Rothbaum	Abdul-Nasah Soale	Tiffany Tang
Chase Dean Pattison	Abhishek Roy	Yichi Song	Qian Tang
Dina Drankus	Sandra M. Hurtado Rua	Wenjie Song	Man Tang
Pekelnicky	Wendy Nora Rummerfield	Michelle Song	Kai Tang
Kangyi Peng	Joshua L. Rutt	Jingsheng Jeannette Song	Nabihah Tayob
Anders Peng	Archie Sachdeva	Hui Song	Abeba Teklehaimanot
Kelli Peterman	Yeabsira Sahlu	Hoseung Song	Bhikhari P. Tharu
Amber A. Petkus	Kristin Sainani	Haochen Song	Tanayott Thaweethai
Cuong Pham	Fumitake Sakaori	Aijun Song	Charles Thomas
Pranay Pherwani	Vidhi Sapru	Asher Spector	Elizabeth Christine Thompson
Belinda Phipson	Thilini Rasanga Saram	Laurent Spiess	Connor Thompson
Selina Pi	Sulagna Sarkar	Sara Stanley	Michael Throolin
Mathieu Pigeon	Jonathan Sauls	Michael C. Steffan	Zibo Tian
Jie Ping	Bryanna Schaffer	Petra Stein	Xiaowen Tian
Geoffrey R. Porto	Eli Schaub	Joseph Reynold Steneman	Surya Tapas Tokdar
Daniel C. Posner	Kristin E. Schrader	Paul L. Stephenson	Anagha Tolpadi
Yoann Potiron	Jessalyn Sebastian	Brandon M. Stewart	Raul Torres
Gail Potter	Matthew Secrest	Dylan J. Stiles	Thao Tran
Chris R. Powell	Lori Selby	Cameron Stivers	Brendon Tran
Marcos Oliveira Prates	Subhabrata Sen	Justin Strait	Alex M. Tran
Christopher R. Pretz	Souhardya Sengupta	Yu-Chen Su	Mark Trappmann
Kevia Qu	Miloni Shah	Chloe Su	Jamie Troth
Harris Quach	Saleem Shaik	Piotr Mikolaj Suder	Tim Tsang
Vijetha Muralidhar	Minghua Shan	Yaojin Sun	Ching-Ni Tseng
Mark Louie Ramos	Ergan Shang	Yan Sun	Rui Tuo
Di Ran	Zhouyu Shen	Lixian Sun	Ali Turfah
Garvesh Raskutti	Yishan Shen	Key Sun	Eray Turkel
Atul Rawal	Yiqiu Shen	Kang Sun	Prince Uche
Evan L. Ray	Ling Shen	Hu Sun	Jesus Urbano
Benjamin Raymond	Jiayi Shen	Hao Sun	Neena Varanasi
Siyuan Ren	Hua Shen	Emma Sun	Kayla Marie Varela
Bailey Reutinger		Chih-Li Sung	Seema Variar
Johanna Lydia Lovis Riedel			

NEW MEMBERS

Aparajithan	Jena Kylie Weitzman	Chih-Ting Yang	Zhizhen Zhao
Venkateswaran	Nathan Welch	Wenjing Yao	Zhangchen Zhao
Tim Vigers	Chin-Fang Weng	Mandy Yao	Yibai Zhao
Frederike Vogel	Paul Douglas Wesson	Ting Ye	Yanan Zhao
Polina Vyniavska	Parker White	Qian Ye	Xueqi Zhao
Jadon Wagstaff	Matthew T. White	Meiyi Ye	Xingpei Zhao
Michael Wallace	Michael Wierzbicki	Sangyoon Yi	Enxu Zhao
James M. Walter	Eric Wika	Menghan Yi	Beibo Zhao
Shinique J. Walters	Dechra Joseph Francis	Jeff Kyle Yoder	Zhong Zheng
Yubing Wan	Willard	Sukyong Yoo	Tiange Zheng
Jim Y. Wan	Benjamin M. Williams	Chaeyeon Yoo	Duo Zheng
Zhenyu Wang	Michael Wilson	Xiaojun You	Yuan Zhong
Zekun Wang	Gary Witt	Dengdeng Yu	Wei Zhong
Yuhan Wang	Yunong Wu	Danni Yu	Yuan Zhou
Yudong Wang	Yue Wu	Alice Yu	Xingtao Zhou
Yizhuo Wang	Yilin Wu	Ying Yuan	Shanshan Zhou
Yingwei Wang	Xiaoling Wu	Deciphera Shijie Yuan	Mi Zhou
Yifei Wang	Wenting Wu	Shaowu Yuchi	Kangjie Zhou
Yibo Wang	Ruihan Wu	Saeed Zaman	Heng Zhou
Yan Vivian Wang	Diezhang Wu	Chongzhi Zang	Yizhe Zhu
Xinru Wang	Danni Wu	Anatoly V. Zaytsev	Yichen Zhu
Wantao Wang	Qing Xia	Dania Zein	Yeying Zhu
Tzu-Yu Wang	Tailiang Xie	Wanting Zhai	Xiaojuan Zhu
Tuo Wang	Zihang Xu	Percy Zhai	Weixi Zhu
Tongrong Wang	Zheng Xu	Yilong Zhang	Mengqi Zhu
Tingyin Wang	Yi Xu	Yijiao Zhang	Jin Zhu
Tianhao Wang	Yan Xu	Yangang Zhang	Laura A. Ziegler
Sichao Wang	Xiaohan Xu	Xu Zhang	Hangcen Zou
Shiyu Wang	Xiao Xu	Xiang Zhang	Tijana Zrnica
Rui Wang	Mengyi Xu	Tianyu Zhang	Tianhai Zu
Mei-Cheng Wang	Lan Xu	Siwei Zhang	Valentin Zulj ■
Lujia Wang	Jiehui Xu	Shushu Zhang	
Lu Wang	Gang Xu	Shiyu Zhang	
Jeffrey Wang	Tian Lu Xue	Ruqian Zhang	
Huiyuan Wang	Jose-Miguel Yamal	Qingwen Zhang	
Huei Wang	Hong Yan	Qiao Zhang	
Houjie Wang	Youqi Yang	Naiyuan Zhang	
Chenkun Wang	Ye Yang	Mengxia Zhang	
Bin Wang	Yang Yang	Linfeng Zhang	
Mayla Ward	Shiwen Yang	Leyao Zhang	
Yi Wei	Shih-Hsien Yang	Ke Zhang	
Li Wei	Jingxuan Yang	Kaihong Zhang	
Jing Wei	JeanYee Hwa Yang	Cong Zhang	
Dennis Wei	Jay Yang	Chenguang Zhang	
Kirsty Weitzel	Haoyu Yang	Bingyu Zhang	

NSF CORNER

Infusing Data-Centered Pedagogy into Introductory Statistics

To strengthen the connection between the statistical community and National Science Foundation, we continue the series introduced in the May 2023 issue that poses questions to NSF program officers and awardees. If you have questions or comments for the program officers, send them to ASA Director of Science Policy Steve Pierson at spierson@amstat.org.

This month, we focus on awardee responses from a team at North Carolina Agricultural and Technical State University led by Sayed Mostafa.

Awardees

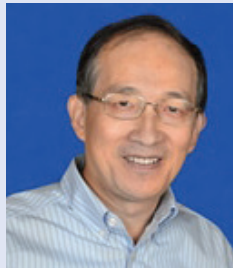
A team consisting of three statisticians and two mathematicians from North Carolina Agricultural and Technical State University, NCA&T, was awarded the National Science Foundation grant Infusing Data-Centered Pedagogy and Data-Analytical Skills into Introductory Statistics. The \$400,000 grant was awarded to revolutionize the awardees' introductory statistics course, which serves more than 600 students each year, most of whom are from groups underrepresented in statistics and data science.



Sayed Mostafa is an assistant professor of statistics and principal investigator of the project. His research focuses on survey sampling, nonparametric statistics, and statistics and data science education. This is his first NSF award, though he has served on multiple review panels of the NSF's Directorate for STEM Education.



Seongtae Kim is an associate professor of statistics teaching statistics and data science. His research interests are in high-dimensional data analysis and time series forecasting. Prior to this award, he received funding from the NSF Research Traineeship and HBCU-UP programs.



Guoqing Tang is a professor of mathematics and chair of the mathematics and statistics department. His STEM education research has been funded by several NSF Directorate for STEM Education grants.



Mingxiang Chen is a mathematics professor who has taught introductory statistics for more than 10 years.



Tamer Elbayoumi is an assistant professor of statistics with research interests in time series analysis and statistical methods for geosciences. He has taught a wide range of statistics courses, including introductory statistics.

Tell us about your project and what it will accomplish.

The project develops, implements, and evaluates a computationally infused introductory statistics course design that includes a virtual statistical computing lab as a major component. Students interactively learn R coding and work on authentic data analysis projects. The project's objectives are the following:

- To help students develop the computational competencies needed for data science and STEM
- To attract introductory statistics students to our statistics and data science programs to diversify the workforce
- To help introductory statistics faculty adopt a data-centered approach and put modern data analysis and computing at the forefront of their teaching

What NSF entity funded or contributed to this project, and how will the funding be used?

This project is funded through the NSF's Directorate for STEM Education (EDU), specifically the Historically Black Colleges and Universities-Undergraduate Program's (HBCU-UP) Targeted Infusion Projects track, which supports projects aiming to enhance undergraduate STEM education at an HBCU. The funding supports instructors and graduate assistants at NCA&T in developing and adopting material for integrating modern data analysis and computation into the introductory statistics course. Evaluation data is continuously collected and analyzed to guide the implementation and revision of the course redesign.

Describe your approach to the Directorate for STEM Education.

Until five years ago, the introductory statistics course at NCA&T was taught using the traditional consensus course design, which was prevalent in most institutions in the United States and around

the world. Noting the undesirable impacts of this consensus course design and motivated by the ASA's *Guidelines for Assessment and Instruction in Statistics Education Report* on teaching introductory statistics and the discussions in the statistics community about the role of computing in the statistics and data science curriculum, we sought to redesign our introductory statistics course.

To fund this redesign, we explored various NSF funding mechanisms—including the Improving Undergraduate STEM Education initiative and HBCU-UP programs—and shared our ideas with the program officers during one of the EDU's outreach workshops. We were encouraged to submit a proposal.

What advice do you have for others about applying for NSF funding?

- Volunteer to serve on NSF review panels. This helps with understanding the NSF merit review process and how to make your proposal competitive.
- Provide pilot data that documents the need and/or potential positive impacts for the proposed project. This pilot data is important in every proposal and necessary for training/pedagogical proposals.
- Before resubmitting a proposal idea, take time to analyze and reflect on reviewers' feedback from prior unsuccessful submissions. It is not unusual to make multiple submissions until you get your idea funded by NSF.
- Communicate with NSF program officers about your proposal idea to find the ideal funding track. There are many ways to reach program officers, including emailing a one-page summary and attending their online webinars. ■

UNC Biostatistics Provides Undergraduate Summer Internship Template

Ann Marie Weideman and Taylor Krajewski, The University of North Carolina at Chapel Hill



Krajewski



Weideman

The University of North Carolina at Chapel Hill Biostatistics Department recently developed a template for those interested in launching a Biostatistics Undergraduate Summer Internships program.

The program was created with the goal of turning the theoretical world of statistics into hands-on, real-world experiences to bolster undergraduates' future job prospects and graduate school applications.

The program's infrastructure is managed by graduate students, while faculty members and alumni sponsor the opportunities. Graduate student directors manage the application process, pair applicants with appropriate opportunities, and plan several BUSI events throughout the summer.

Application Process

UNC faculty and alumni offer summer projects, ranging from the fundamentals of data management to publication-worthy analyses. Faculty members detail their needs, allowing graduate

student directors to match them with undergraduate students best suited to their projects. Additionally, faculty members specify whether a graduate student mentor will be working directly with the intern(s).

Interested students within the department complete an application that details their research experience, courses completed, known programming languages and abilities, and types of opportunities that align with their interests. Graduate student directors review the applications and choose three to five candidates for each faculty member to consider. Faculty members interview and choose their intern(s) from this shortlist. Typically, each faculty member selects one to two students.

Faculty members offer opportunities that will work well for undergraduate students. Some projects are funded, while others are volunteer-based. Students can indicate whether they are only interested in funded opportunities in their application.

Summer Events

While faculty members engage with their interns, graduate student directors organize a summer kickoff event, mentor training session, presentation preparation workshops, 'dress for success' session, and end-of-summer research symposium.

End-of-Summer Research Symposium

Students attend a presentation preparation workshop hosted by the graduate student directors. Following the workshop, they receive poster templates to complete and return to the directors for one to two rounds of constructive feedback.

The symposium is the culmination of the summer experience, during which students showcase their posters. Seasoned volunteer graduate students, equipped with a rubric, evaluate student posters and presentations. Outstanding posters receive special recognition with a certificate and shout-out in the school news.



How BUSI Boosts Careers

A number of interns continue to work on their research as honors theses or become undergraduate research assistants. These applied opportunities help students distinguish themselves and are vital for developing essential skills and forging contacts for letters of support. Additionally,

the program boosts the careers of graduate student directors by providing them with leadership experience and enhancing their professional profiles.

Student Feedback

Through a survey, interns are invited to evaluate each aspect of their research experience, outline their plans for continuing their

research, and offer recommendations for improving BUSI. The feedback so far has been positive. Interns identify the mentoring relationships, poster preparation sessions, and research symposium as the most valued components of the program.

Program Logistics

Jane Monaco, the assistant dean of undergraduate degree programs at UNC, reaches out to faculty members to solicit projects.

The biostatistics department— together with a seed grant from the ASA Section on Statistics and Data Science Education— provides funding for the symposium and graduate student directors, who spend 5–10 hours per week throughout the spring and summer to ensure BUSI's success.

The directors in training program guarantees a seamless transition from year to year. Directors train for a year, then run the program the following year while training the next set of directors. This cycle ensures each new cohort of directors is well prepared.

Materials for starting this program can be found at github.com/annweideman/busi-bees. For more information, contact Taylor Krajewski at tjk@live.unc.edu or Ann Marie Weideman at anndo1@live.unc.edu. ■

Budgets See Cuts, Flat Funding for Research Funding, Federal Statistical Agencies

Steve Pierson, ASA Director of Science Policy

MORE ONLINE
Join the Count on Stats LinkedIn group at www.linkedin.com/groups/8777968, where you can network with supporters of the federal statistical agencies, share your observations and perspectives, and receive relevant updates.

Finalized in March, the federal government fiscal year 2024 (FY24) budget generally delivered cuts for research funding agencies and statistical agencies (Table 1). President Joe Biden's FY25 budget request was also more modest than past years, largely requesting flat funding.

Final FY24 Budget

The federal budget agreement made between the White House and US House of Representatives resulted in decreases for four research funding agencies the ASA tracks most closely and for a number of federal statistical agencies.

The National Science Foundation was the most affected, with an 8% cut, though that is above its FY23 level. The National Institutes of Health saw a more modest cut of 0.8%.

While the National Institute of Justice budget was reduced to its FY22 level, Congress also reduced the fraction of the budget the NIJ targets for specific topics or projects. As a result, the amount of funding over which NIJ has discretion increased over the FY23 amount.

The National Institute of Standards and Technology also received an 8% cut, leading it to terminate its contract for the Center for Statistics and Applications in Forensic Evidence early.

For the federal statistical agencies, the following five saw their funding remain at their FY23 levels:

- Bureau of Labor Statistics
- Energy Information Administration
- National Center for Education Statistics
- National Center for Health Statistics
- Social Security Administration's Office of Research, Evaluation, and Statistics

Several agencies saw cuts of up to several percentage points, including the Bureau of

Economic Analysis at -4%, US Census Bureau at -7%, Economic Research Service at -2%, and National Center for Science and Engineering Statistics at -3%.

The 11% decrease for the National Agricultural Statistics Service is largely due to the FY23 budget having additional funds for the execution of the quinquennial Census of Agriculture.

The 12% increase for the Statistics of Income is largely due to funds provided to the Internal Revenue Service through the Inflation Reduction Act of 2022.

The marginal increase for the Bureau of Transportation Statistics was determined through the authorization process in 2022.

The flat funding for most statistical agencies amounts to a loss of purchasing power, an ongoing challenge that has hampered most agencies for the past dozen years. As a result, several agencies have announced cuts such as the following:

- The National Agricultural Statistics Service is cutting the July Cattle Inventory Report, Cotton Objective Yield Survey, and County Estimates for Crops and Livestock.
- In March 2024, the National Center for Education Statistics announced the planned elimination of the Academic Libraries survey beginning with the 2025–2026 cycle.
- In May, the Bureau of Economic Analysis suspended its Near Real-Time Spending reports, which were based on card transaction data.
- In July of last year, the Energy Information Administration announced it would not publish its congressionally mandated Annual Energy Outlook in 2024.

Table 1: FY20–FY24 Budgets and FY25 Requests for Research and Statistical Agencies

							FY25	
	FY20	FY21	FY22	FY23	FY24	% Change from FY23	Request	% Change from FY24
Research Agencies (in millions of dollars)								
NIH	41685	42936	45959	48959	48581	-0.8%	50132	3.2%
NSF	8278	8487	8676	9877	9060	-8.3%	10183	12.4%
AHRQ	338	338	350	374	369	-1.2%	387	5.0%
NIJ	36	37	30	35	30	-14.3%	35	16.7%
Statistical Agencies (in millions of dollars)								
BEA	105.8	108.4	111.7	121.9	117.3	-3.8%	130.2	11.0%
BJS	43.0	45.0	40.0	42.0	35.0	-16.7%	42.0	20.0%
BLS	628.0	642.0	659.5	698.0	698.0	0.0%	711.5	1.9%
BTS	26.0	26.0	26.0	26.3	26.5	1.0%	38.6	45.7%
Census	7558.3	1106.6	1354.0	1485.0	1382.5	-6.9%	1577.7	14.1%
EIA	126.8	126.8	129.1	135.0	135.0	0.0%	141.7	5.0%
ERS	84.8	85.5	87.8	92.6	90.6	-2.2%	98.0	8.2%
NASS	180.3	183.9	190.2	211.3	187.5	-11.2%	195.0	4.0%
NCES	263.5	276.5	291.5	306.5	306.5	0.0%	306.5	0.0%
- statistics	110.5	111.5	111.5	121.5	121.5	0.0%	121.5	0.0%
NCHS	174.4	175.4	180.5	187.4	187.4	0.0%	187.4	0.0%
NCSES	65.0	66.7	67.7	88.9	86.3	-2.9%	96.9	12.3%
ORES	36.0	35.7	39.7	40.9	41.0	0.3%	41.4	0.9%
SOI	35.9	40.0	40.7	41.7	46.6	11.8%	52.5	12.7%

Includes percentage increase of FY24 over FY23 and FY25 request over FY24. The NCHS budget was restructured starting in FY21 to account for \$14 million previously routinely received from another account.

In addition to the appropriated amount shown in Table 1, the Bureau of Justice Statistics receives a small percentage of US DOJ grants assistance programs, referred to as a set-aside. It averaged approximately \$24 million in recent years and substantially buttressed the bureau's programs. See Figure 1 for the bureau's funding back to FY03, including the set-aside that started in FY12. This amount does not include BJS staffing, which is provided through a DOJ-wide account.

For FY24, the BJS's combined funding is approximately \$59 million, which marks a 31% decrease in purchasing power since FY18. For perspective, the bureau's flagship survey—the National Crime Victimization Survey—has an approximate annual cost of \$62 million, which means the bureau must rely on support from other DOJ offices, including the Office for Victims of Crime. It also means the bureau must sparingly execute many of its roughly 50 active surveys that aren't annual. The surveys most likely to be delayed cover the phase of the criminal justice process following arrest through conviction and sentencing.

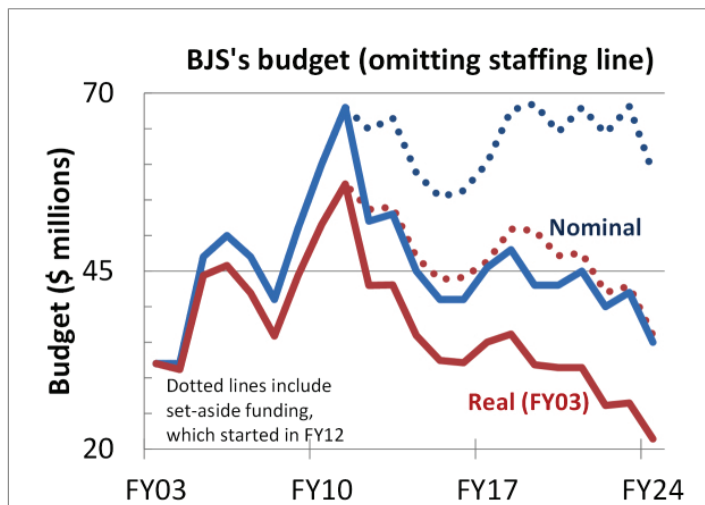


Figure 1: BJS's budget in nominal and real terms for FY03–FY24. In FY12, additional funding was provided through set-aside funding. The Bureau of Economic Analysis' gross domestic product deflator was used to account for inflation.

President's FY25 Request

The president's FY25 budget request for the four research funding agencies in Table 1 reflects the agencies' budgets having been cut in FY24. His budget numbers were released at around the same time as the FY24 budgets were finalized, so did not take final FY24 levels into account. However, the FY25 requested levels do consider that FY25 will be a tight year, with flat funding relative to FY24 considered a high-water mark.

The House's work to mark up its FY25 appropriations bills began in June. To follow the FY25 budget developments, see "FY25 NIH, NSF, and AHRQ Budget Developments" at bit.ly/3VPj8UG and "FY25 Statistical Agency Budget Developments" at bit.ly/3XwZ8ao. ■

PODCAST



PRACTICAL SIGNIFICANCE
AMERICAN STATISTICAL ASSOCIATION

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to the latest episode of
the *Practical Significance*
podcast with hosts
Ron Wasserstein and
Donna LaLonde



Ron Wasserstein



Donna LaLonde

Practical Significance inspires
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opportunities for all.

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Federal Budget Cuts Leave Forensic Science Projects Unfinished, Student Researchers Defunded

Danica Ommen, Susan VanderPlas, and Steve Pierson

Funding for the Center for Statistics and Applications in Forensic Evidence, known as CSAFE, had its funding terminated May 31, a year before its second five-year contract was to end. The notification came from the National Institute of Statistics and Technology, which had funded CSAFE as a Center of Excellence since 2015 and had its fiscal year 2024 (FY24) budget cut 8% to \$1.16 billion.

Funded by the National Institute of Statistics and Technology at \$3.9 million annually, the cut is a blow to CSAFE's work, which includes a research program and collaboration with and professional development for the forensic science community.

The research program includes 28 active projects involving more than 80 multidisciplinary researchers at 11 institutions and more than 40 graduate and undergraduate students. According to CSAFE, its researchers have published more than 100 articles in peer-reviewed journals. Their major accomplishments include a scientific basis for analyzing firearms, cartridges, handwriting, shoeprints, and digital evidence.

CSAFE brings its research to practitioners by testing and validating its tools with such entities as the US Secret Service, Houston Forensic Science Center, Kentucky State Police Central Forensic Laboratory, Miami-Dade Forensic Services Division, and US Army Criminal Investigation Laboratory.

The center's education, training, and engagement are also extensive. More than 11,000 people have enrolled in its learning opportunities, including more than 100 webinars, workshops, educational courses, and exhibits. Further, with the Innocence Project, CSAFE established the Scientific Literacy Project to provide free online basic scientific training for public defenders. The project, for example, just announced a partnership with the North Carolina Indigent Defense Services, enrolling dozens of attorneys for its program.

The cut also terminates the application of research to forensic practice, which is the goal of CSAFE and has been building momentum. Prompted by President's Council of Advisors on



CSAFE Learning and Development Specialist Anthony Greiter speaks to attendees of the 2024 Annual Conference of the American Academy of Forensic Sciences. Photo courtesy of CSAFE.

Science and Technology and National Academies reports, courts have restricted the testimony examiners can offer. Recently, firearms testimony has been limited or excluded in state courts in Illinois and Maryland due to uncertainty in the error rates of subjective visual examinations.

CSAFE has developed algorithms that mimic examiner visual assessment in a reproducible, quantitative, and statistically validated method, and these algorithms can be tested, producing incredibly low error rates. They are ready to be transitioned to lab use, with open-source code and web tools designed for case work. Without continued funding, there is a risk that courts will exclude current methods with no replacement available to ensure firearms evidence can still be used reliably.

CSAFE researchers are active in supporting the development of forensic standards by participating in the National Institute of Statistics and Technology Organization of Scientific Area Committees, which updates and develops forensic science standards for US laboratories. Without the needed advancements in statistics as applied to these forensic disciplines, the standards risk stagnating or falling behind. Continued CSAFE funding ensures these researchers will continue working on forensics problems and updating the standards.

To learn more about CSAFE, visit <https://forensicstats.org>. ■



Danica Ommen is chair of the ASA Forensic Science Committee and an associate professor of statistics at Iowa State University.



Susan VanderPlas is the vice chair of the ASA Forensic Science Committee and assistant professor of statistics at the University of Nebraska at Lincoln.



Steve Pierson is the ASA director of science policy and staff liaison to the forensic science committee.

JSDSE HIGHLIGHTS

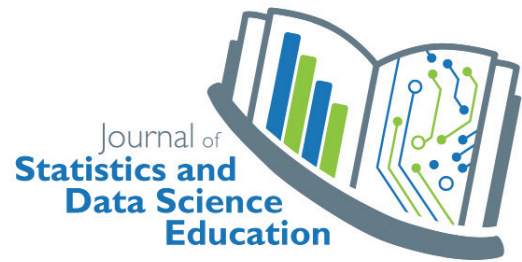
Newest Issue Focuses on Sharing Deidentified Data, Code

The July 2024 issue of the *Journal of Statistics and Data Science Education* starts with an editorial co-authored by Nicholas J. Horton and Sara Stoudt that discusses the journal's requirements (instituted in 2022) for authors to share deidentified data and code that underlies their papers. These changes—prompted by an increased focus on reproducibility and open science—are intended to facilitate validation, replication, and reproducibility and are being instituted by many other journals, including several published by the American Statistical Association.

Horton and Stoudt also discuss why the requirements for code and data sharing were instituted, summarize ongoing trends and developments in open science, describe options for data and code sharing, and share advice for authors.

Key take-aways for authors include the following:

- Authors are asked to share a minimal deidentified data set that can replicate all study findings reported in the article.
- In addition to the deidentified data, all code used to analyze the data and generate results from the manuscript should be shared.
- Deidentified data and code should be deposited in a repository such as the Open Science Framework that fully implements FAIR (Findable, Accessible, Interoperable, and Reusable) data principles. (GitHub does not fully implement the FAIR data principles.)
- Other meta-data and supplementary materials (e.g., survey instruments, codebooks) can be included in the repository.
- The Open Science Framework allows anonymization of author names to allow the link to the data and code for a reproducibility check during the review process.
- A data availability statement should be included at the end of the manuscript before



the references and in the metadata for the paper in the submission system (the editorial includes sample examples of wording).

- “Share upon request” is not an acceptable option for data sharing.
- For qualitative data projects, it may be appropriate to share the deidentified coded data rather than video or transcripts.
- The journal's policies acknowledge there is a need to balance both transparency and reproducibility with data privacy. The editorial discusses ways to address sensitive data and describes the journal's policy to request a waiver of data sharing.
- Researchers are encouraged to carefully review their institutional review board protocols to ensure data-sharing plans are clearly described (see <https://dmptool.org> for guidance).

The editors close by noting best practices to foster reproducibility and replicability are fast changing and require additional efforts by authors, reviewers, and editors. The requirements to share deidentified data and code are a necessary but insufficient requirement to foster improved computational reproducibility. However, the editors think these changes can and should be undertaken and will help balance privacy and sharing in a way that fosters better science.

Other papers published in the issue include the following:

- “The Teaching of Introductory Statistics: Results of a National Survey” (Chelsey Legacy, Laura Le, Andrew Zieffler, Elizabeth Fry, and Pablo Vivas Corrales)
- “In Pursuit of Campus-Wide Data Literacy: A Guide to Developing a Statistics Course for Students in Nonquantitative Fields” (Alexis Lerner and Andrew Gelman)
- “Can You Trust Your Memory?” (Jeff Witmer)
- “Culturally Relevant Data in Teaching Statistics and Data Science Courses” (Travis Weiland and Immanuel Williams)
- “Implementation of Alternative Grading Methods in a Mathematical Statistics Course” (Brenna Curley and Jillian Downey)
- “Questions (and Answers) for Incorporating Nontraditional Grading in

Your Statistics Courses” (Brenna Curley, Jillian Downey, Katherine M. Kinnaird, Adam Loy, and Eric Reyes)

- “Teaching Reproducible Methods in Economics at Liberal Arts Colleges: A Survey” (Anthony Underwood, Aidan Sichel, and Emily C. Marshall)
- “Data Analytics and Programming for Linguistics Students: A SWOT and Survey Study” (Dennis Tay)
- “Building Capacity for COVID-19 Surveillance: A Statistics Course for Health Officials in Seven Low- and Middle-Income Countries” (Isabel R. Fulcher, Donald Fejfar, Nichole Kulikowski, Jean-Claude Mugunga, Michael Law, and Bethany Hedt-Gauthier)
- “Interview with Hollylynne Stohl Lee” (Allan Rossman)

The editorial and articles in this issue can be found at www.tandfonline.com/tochujse20/current. ■

STATISTICS TEACHER

THE ONLINE JOURNAL FOR K-12 TEACHERS

STATISTICS TEACHER
(ST) is an online journal published by the American Statistical Association/ National Council of Teachers of Mathematics Joint Committee on Curriculum in Statistics and Probability for Grades K–12.

- ◆ Timely Articles
- ◆ Peer-Reviewed Lessons Plans
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www.statisticsteacher.org

Privacy and Confidentiality Committee Highlights Key Conferences

To raise awareness of conferences about statistical privacy and confidentiality among the American Statistical Association membership, members of the Privacy and Confidentiality Committee highlight the following past and upcoming conferences.

The National Bureau of Economic Research conference Data Privacy Protection and the Conduct of Applied Research: Methods, Approaches, and their Consequences was held in Washington, DC, May 16–17 and live streamed on the its YouTube channel. The talks came from a wide range of topics, including survey methodology, synthetic data and alternatives, privacy compliance, formal privacy techniques, and utility and privacy in design. There were also two discussion sessions on data governance and utility and formal privacy. About the conference, presenter Aaron Williams of the Urban Institute said the following:

NBER's conference was an excellent opportunity to meet experts, to explore cutting-edge privacy research, and to get valuable feedback for ongoing work. The statisticians, economists, and computer scientists in attendance came from varied backgrounds but were united in their interests in safely expanding access to data for research. There was never a lull during the two-day event because every attendee brought energy and curiosity to the conference.

The Seventh International Conference on Establishment Statistics took place in Glasgow, Scotland, June 17–20. There was an introductory-level short course titled “Navigating the Privacy-Utility Tradeoff: An Introduction to Data Privacy Techniques” and five sessions about privacy and disclosure control techniques for establishments, including synthetic data and differential privacy.

At the Joint Statistical Meetings, to be held in Portland, Oregon, August 3–8, there will be 24 sessions related to privacy and confidentiality. These sessions include a professional development course, introductory overview lecture, six invited paper sessions, five invited panel sessions, five topic-contributed paper sessions, two topic-contributed panel sessions, and four contributed paper sessions. Visit bit.ly/45g6gd5 for more information about these sessions.

Finally, there will be two privacy and confidentiality conferences in September. The new biannual Privacy and Public Policy Conference will be held in Washington,

About the Committee

The ASA Privacy and Confidentiality Committee is composed of nine members who represent the views of academic, government, industry, and nonprofit statisticians engaged in data privacy and confidentiality methods and policy. The committee's charge is the following:

- To keep track of privacy and confidentiality policy and legal developments (including guidelines, legislation, laws, regulations), technical developments (data, statistical, and computational techniques), and their interrelation
- To serve as a focal point within the ASA for contact with other communities on matters related to privacy and confidentiality
- To communicate and educate the statistical community about the legal environment and technical developments related to privacy and confidentiality

For more information about the committee, visit community.amstat.org/cpc/home or contact promotion subcommittee members Monika Hu at jihu@vassar.edu and Joshua Snoke at jsnoke@rand.org.

DC, September 13–14. Its goal is to foster and enhance collaboration among privacy experts, researchers, data stewards, data practitioners, and public policymakers. It will feature an opening keynote panel and two days of talks, working roundtables, and a poster session. For details, visit bit.ly/3VPGLff.

The biannual Privacy in Statistical Databases will be held in Antibes Juan-les-Pins, France, September 25–27. It includes three days of talks about finding tradeoffs to the tension between the increasing societal and economic demand for accurate information and the legal and ethical obligation to protect the privacy of individuals and enterprises, which are the respondents providing the statistical data. Visit bit.ly/3VPGLff for details.

Registration is open for all upcoming conferences. ■

JEDI CORNER

JEDI at JSM

David J. Corliss, JEDI Communications Committee Chair

The Justice, Equity, Diversity, and Inclusion (JEDI) Outreach Group Corner is a regular component of Amstat News in which statisticians write and educate our community about JEDI-related matters. If you have an idea or article for the column, email the JEDI Corner manager at jedicorner@datascijedi.org.

The 2024 Joint Statistical Meetings will be the largest gathering of statisticians and data scientists in North America this year and JEDIs are set to play a leading role. The JEDI Outreach Group is the primary or co-sponsor for 11 sessions this year, with leading researchers and emerging leaders covering a wide variety of interests. In all, there are almost 40 presentations, meetings, and other events focusing on justice, equity, diversity, and inclusion.

In JEDI research, data issues constitute important and pervasive challenges. Therefore, data best practices for diverse populations will be the focus of the following sessions:

- #1400 (ENAR) – “Missingness, Marginalization, and Misinformation: How Data Issues Perpetuate Cultural Biases and Impede Scientific Research for Underrepresented Communities”
- #1108 (WNAR) - “Considerations and Best Practices for Use of Race, Ethnicity, and Ancestry in Data Science Research”
- #1570 (Oregon Health and Science University) - “Infusing Data Equity Principles into Health Research: Training Initiatives and Implementation in Practice”

These sessions are from organizations in the health sciences with data concerns around diverse populations and the potential for bias. However, it’s the methodology that really matters, and you can learn from these sessions. All my own work in human rights analytics is rooted in learning data methods from

biostatisticians. If your work supports marginalized populations, these sessions on best practices for data teach essential skills.

Analytic methods are well represented at JSM, as well, with several sessions focusing on applications in justice, equity, diversity, and inclusion. Analytic methods for investigating intersectionality with disability are explored in session #1377.

Another area of great interest today in need of more statisticians and data scientists is the use of force by police. In November 2023, the National Institute of Statistical Sciences Ingram Olkin Forum held a workshop titled “Statistical Challenges in the Analysis of Police Use of Force.” Findings from the workshop and next steps will be presented in session #1348.

Cutting-edge advances in statistical science are the subject of session #1802, “Uncharted Methods in Health Equity Research.” Like data best practices, the papers in this session may have been developed to address a particular situation but the methodologies are applicable to all JEDI subjects.

Statistics education is another major area with many presentations at JSM. Starting from the ground up, session #1579, “Empowering Educators: Supporting Equitable Teaching of Statistics & Data Science Across Grades K–16,” will focus on teaching the teachers (shout-out to my statistical alma mater, Eastern Michigan, represented by Stephanie Casey and Andrew Ross, who will present “Preparing Preservice mathematics Teachers to Teach Statistics and Data Science: Technology, Equity, and Pedagogical Content Knowledge Considerations”).

“Reducing Barriers to Teaching Novice Learners How to Code” is the title of session #1039, a panel discussion with outstanding JEDI



David Corliss is the principal data scientist at Grafham Analytics and founder of Peace-Work.

leaders who will share their experiences of the most effective ways to get students coding, often for the first time.

Ethical best practices is seen as an educational requirement in many areas, including medicine and law. Today, there is an increasing awareness of the central importance of ethics to an education in statistics and data science. Session #1157, “Data Science Ethics: Bridging Teaching and Practice,” presents practical core components supporting a solid grounding in ethics for statistics and data science.

Beyond the pure and applied science, science advocacy in support of justice, equity, diversity, and inclusion is central to the JEDI mission and vision. This includes study of public policy and how statistics and data science can be leveraged to

help shape a more just and equitable future through diversity and inclusion. Since the 2023 US Supreme Court decision on the use of race in college admissions, there has been considerable interest in diversity and admissions. Following their decision, US Attorney General Merrick Garland said the Justice Department will work “to provide resources to colleges and universities on what admissions practices and programs remain lawful,” placing diversity in admissions in the realm of statistical practice. This year at JSM, panel session #1368 will provide support for these initiatives.

Finally, advocating for justice, equity, diversity, and inclusion across the sciences is also the focus of session #1526, which will showcase the work of recent graduates of the Math Alliance. ■

ASA MEETINGS

COMING SOON

JSM

JOINT STATISTICAL MEETINGS

**Statistics and Data Science:
Informing Policy and Countering
Misinformation**

August 3–8, 2024

The largest gathering of statisticians and data scientists held in North America.

ww2.amstat.org/jsm



ASA BIOPHARMACEUTICAL SECTION REGULATORY-INDUSTRY STATISTICS WORKSHOP

**Harnessing the Power of
Statistics, Data Science,
and Digital Technology to
Drive Patient-Focused
Innovations Together**

September 25–27, 2024

Featuring three days with invited sessions co-chaired by statisticians from industry, academia, and the FDA.

ww2.amstat.org/meetings/biop/2024



WOMEN IN STATISTICS AND DATA SCIENCE

October 16–18, 2024

Highlighting the achievements and career interests of women in statistics and data science.

ww2.amstat.org/wds

ASA AMERICAN STATISTICAL ASSOCIATION
Promoting the Practice and Profession of Statistics®

JSM at Portland: Catching Up, Collaborating, and Collecting Tools

Jonaki Bose, National Center for Health Statistics

Members of the ASA Committee on Applied Statisticians are looking forward to the upcoming Joint Statistical Meetings and wide variety of sessions relevant to applied statisticians.

The committee’s student workshop will take place August 5 from 10:30 a.m. to noon, and students of all levels are welcome.

The committee also organized an invited session, “Seismic Shifts in the Use of Programming Languages: Implications, Processes, Risks, and Consequences,” taking place August 6 from 8:30 a.m. to 10:20 a.m. Panelists will help contextualize how to bring structure to the move from legacy to open-source programming languages.

The listed sessions focus on applied statistics and support the 2024 theme, *Statistics and Data Science: Informing Policy and Countering Misinformation*.

JSM registrants can meet new people and have invigorating discussions by attending continuing education classes and roundtables, which have an extra fee. Classes such as Text Analysis for Statisticians: Introduction to Advanced Language Modeling (CE_03C) and Merging Data Sources: Record Linkage Techniques and Analysis of Linked Datasets (CE_07C) provide applied statisticians exposure to cutting-edge tools.

Roundtables such as Opportunities and Challenges with ChatGPT (and other LLMs) (ML8) and The Pursuit of ‘Fit’: Unique Challenges Faced by Female, Junior Investigators in STEM Fields (TL13) provide an opportunity to dig deep into specific topics.

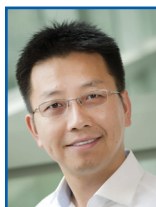
JSM poster sessions provide opportunities for one-on-one discussions, as well. Topics include the following:

- Shape Mediation Analysis in Alzheimer’s Disease Studies
- The Use of QR Codes in a National, Multimode Survey
- Causal Decomposition Analysis of Survival Disparity in Colorectal Cancer
- Synthesis of Machine Learning Applications to Coalbed Methane Recovery and Coal Mine Safety.

DATE	TIME	SESSION ID	TOPIC
8/4	8:30 a.m.	1778	Data, Claims, and Analyses on ‘Invisible Women’
8/4	10:30 a.m.	1283	Leveraging Player Tracking Data in Sports: Challenges and Opportunities
8/5	10:30 a.m.	-	CAS Student Chapters Workshop
8/5	10:30 a.m.	1443	The Positive Power of Generative AI: Using AI for ‘Good’ in Statistics Classrooms
8/6	10:30 a.m.	1156	Methods for Functional Data Analysis of Wearable Device and Biomedical Imaging Data
8/6	2:00 p.m.	1400	Missingness, Marginalization, and Misinformation: How Data Issues Perpetuate Cultural Biases and Impede Scientific Research for Underrepresented Communities
8/6	8:30 a.m.	1412	Seismic Shifts in the Use of Programming Languages: Implications, Processes, Risks, and Consequences
8/7	8:30 a.m.	1837	Examples and Perspectives Using Machine Learning and Artificial Intelligence in Drug Development
8/7	2:00 p.m.	5169	Statistical Advances in Vaccine Evaluation and Infectious Disease Surveillance
8/8	8:30 a.m.	1281	Navigating Electronic Health Record Data for Deeper Insights: Case Studies and Statistical Solutions
8/8	10:30 a.m.	1086	Engaging with the Public to Combat Misinformation: Our Job as Statisticians and Data Scientists?

For more about JSM, visit the website at ww2.amstat.org/meetings/jsm/2024/index.cfm or online program at bit.ly/4cua6ll. ■

STATtr@k



Xing

Strategies for Advancing Your Career: An Interview with Yingwen Dong



Traylor

Jun Xing and Louise Traylor

In a recent Statistical Leadership Forum at Sanofi, Jun Xing had the opportunity to explore Yingwen Dong's experiences, challenges, and strategies. Here, he shares that interview and the insights Dong offered.

I would love to start by hearing about your background and journey leading up to this point. Can you please talk about some key moments in your career that have prepared you for this new role as global head of biostatistics in rare disease and rare blood disorders?

I really appreciate the opportunities I've been given and want to thank all my colleagues, managers, and mentors who guided me to excel in my career. Reflecting on my journey, I believe the key moments that prepared me for this new role were the times when my responsibilities and the scope of work evolved, providing me with essential experiences.

I started my career as a clinical statistician in early clinical development, where three years of experience facilitated my transition from a fresh graduate student to an industry statistician. This position offered me a comprehensive understanding of the statistician's role in a pharmaceutical company, from both technical and operational perspectives.

Subsequently, I transitioned to late-phase clinical development, assuming the role of a study lead statistician for a pivotal phase 3 study in neurology. This shift expanded my experience from early- to late-phase development, allowing me to understand and contribute to the study design, conduct, and reporting in a confirmatory trial setting. Despite the unfavorable results from the phase 3 study, I was presented with the opportunity to serve as the submission lead for a hemophilia project. This provided me with the chance to continue my journey in drug development and gain valuable experience in regulatory interactions, submission, and project management.

Another milestone was joining Sanofi in the oncology area. This move broadened my knowledge in a new therapeutic area and exposed me to innovative designs and ideas. Additionally, taking on the role of a people manager marked an important milestone, allowing me to acquire people management skills and organizational experience.

The entire career journey equipped me with the essential experience and afforded me the chance to cultivate and enhance the leadership skills essential for the new role.

Thank you. I see very clear steps in your career path. Transitioning to a different position and moving to a different therapeutic area can be a demanding endeavor. How did you manage to get the opportunity? What strategies did you use to quickly learn and adapt to new knowledge and dynamics?

That's a great question. I think you're asking me how I managed to convince the hiring manager to bring me on board, even when I lacked the desired experience for the role at that time. First, I consider myself lucky. The hiring managers I engaged with were all open-minded and willing to have an initial conversation. Having an apparent weakness sometimes turned out to be advantageous, especially when addressing questions about weaknesses during the interview. I used it as an opportunity to acknowledge my lack of experience and transformed it into motivation for applying for the new role. In the conversation, I outlined a plan for how I intended to bridge the experience gap and bring myself up to speed. I also leveraged experience and past achievements, emphasizing my potential to quickly acquire new skills necessary for the new role. For internal job transfers, having advocates such as previous managers, collaborators, or stakeholders proved invaluable. One of my internal transfers, for instance, was facilitated by my previous manager, who convinced the new manager to give me a chance. Having someone speak for you and your potential is immensely beneficial.

In terms of how to quickly learn and adapt to new knowledge, recognizing the gaps and pinpointing the aspects that require additional learning is crucial. Engaging with people who are experienced in the area can provide valuable insights. When you are new to a company or group, establishing a go-to person who is familiar with company processes, seeking out peers who can act as a sounding board for ideas, and connecting with mentors who can share their wealth of experience and offer guidance on navigating the new environment are extremely helpful. These strategies were proven valuable in my journey of transitioning into new areas and adapting to new work environments.

That was an impressive strategy of being transparent about your strengths and weakness, along with a motivated mindset, to convince the hiring manager. As you take on the role of the global head of biostatistics in rare disease and rare blood disorders, what do you perceive as the most significant challenges you will face? And how do you plan to approach those?

I plan to concentrate on the following three key areas:

- Acquiring disease area knowledge
- Getting to know the rare disease and rare blood disorders statistics team
- Establishing partnerships with cross-functional stakeholders

Despite having experience in hemophilia projects, providing strategic input into the overall strategy and development program in rare disease and rare blood disorders poses a new challenge. I started with conducting a thorough portfolio review, engaging in conversations with colleagues well-versed in this area, and seizing every opportunity to comprehend the unique challenges. Considering my recent integration into a new group, it is essential to acquaint myself with the team and gain a comprehensive understanding of the challenges they currently face. Engaging in one-on-one meetings and group discussions provides excellent opportunities to connect with team members and gather valuable insights.

Last, building partnerships with cross-functional stakeholders is a priority. Moving from oncology to rare disease and rare blood disorders involves interacting with different stakeholders. Setting up introductory meetings and actively participating in various forum discussions will facilitate a smooth transition.



Yingwen Dong is the global head of biostatistics in rare disease and rare blood disorders at Sanofi, where she is responsible for providing strategic inputs into the overall strategy and development program and leading a team of statisticians to work cross-functionally. The role requires a balance of technical and business acumen, as well as soft skills to communicate and

influence effectively. She earned her PhD in statistics from the University of Minnesota and has 15 years of experience in the pharmaceutical industry. She is an International Chinese Statistical Association representative on the 2024 JSM Programming Committee. Additionally, she is a steering committee member for the 2024 ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop and was recently elected its 2025 industry co-chair. Finally, she served as the vice chair of the ASA Committee on Membership Retention and Recruitment in 2023.

It's evident that embracing emerging opportunities requires diligent preparation while employing a proactive mindset. To help those in our audience who aspire to take the next big opportunity that comes their way, can you provide your choice of the top three pieces of take-home advice to help them get ready?

Happy to share my thoughts. First, know yourself. Be aware of your own interests, strengths, weaknesses, and understand your own passions and skills. This self-awareness will help you identify opportunities that align with your abilities and goals. Second, be prepared. Prepare yourself by continually learning and acquiring new skills. The more adaptable you are, the better you will be able to seize opportunities in different areas. Last, but not least, build a strong network. Find a diverse and extensive network of contacts in the field that will help you identify new opportunities. Networks not only offer valuable insights but also pave the way for possibilities.

Thank you, Yingwen. Know yourself, be prepared, and build a strong network. Well said. ■

Editor's Note:

A version of this interview originally appeared in the Biopharmaceutical Section's spring report. View it at <https://community.amstat.org/biop/biopharmreport>.

STATS4GOOD

JSM 2024 a Data for Good Treasure Trove



David Corliss is the principal data scientist at Grafham Analytics and founder of Peace-Work.

In just a few weeks, thousands of statisticians and data scientists will gather in Portland, Oregon, for the Joint Statistical Meetings. JSM brings together researchers, students, and thought leaders to present and take part in classes, panels, papers, posters, and more—all with the goal of sharing the best in statistics and data science. #DataForGood uses statistical science proactively to help people, but it also has an advocacy role, supporting all science and the good it can do. Sometimes that means defending science against being ignored or even misused. The theme of JSM 2024—informing policy and countering misinformation—addresses this core function of Data for Good.

Conference content can be found using the conference program at bit.ly/4cua6ll, which supports queries by type of session, sponsoring organization, author, and more. It also supports text search, identifying author names, keywords in the subject and methodology, and type of session. The ASA organization sponsoring the session is in the dropdown menu for category. This will help locate all the sessions supported by ASA organizations with a strong D4G mission, including the following:

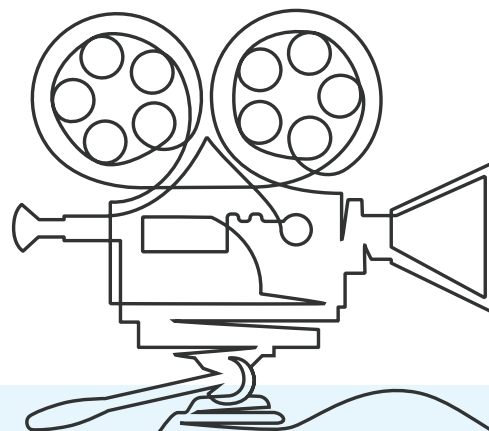
- Committee on Professional Ethics
- Committee on Scientific Freedom and Human Rights
- Health Policy Statistics Section
- Privacy and Confidentiality Interest Group

Getting Involved

JSM is more than an August meeting. Whether you can attend or not, it's a year-round virtual resource available to everyone. Use the conference program at bit.ly/4cua6ll to find sessions in your area of interest and reach out to the authors. Look at the data sources and analytic methods they use. Connect with new collaborators and get ideas for your next D4G project.

Also this month, the Civic Hacker Network launched their Community Impact Accelerator at bit.ly/3VwXeE9. The network also has a virtual meeting on the last Friday of each month. See bit.ly/3Xs8owG. The network's online resources are there to empower your civic D4G collaboration, wherever you are.

Many D4G topics are the focus of special presentations and meetings. The President's Invited Address on August 5 will feature Jason Matheny, CEO of RAND, addressing AI policy and the important impact made by statistics and data science. And on August 6 at 8:00 p.m., ASA President



Madhumita Ghosh-Dastidar will present on JSM's theme. Additionally, the Stats4Good Challenge topic, ethical AI, is featured in many sessions, including session 1443, "Using AI for Good in Statistics Classrooms." Another challenge topic this year is collaboration with industry, featured in session 1238 on AI and machine learning in business and industry.

JSM also provides opportunities for networking. Attendees can make connections, set up new mentoring relationships, and encourage others in D4G work. For example, section and committee meetings are wonderful places to be a voice for Data for Good and make sure it is included in plans for the coming year. On August 7 at 12:30 p.m., I will present a roundtable about getting started on your first project in Data for Good.

At JSM, attendees can learn about analytic tools needed to advance their work and address any issues they have.

In methodology, the subject of the paper isn't as important as the techniques used and the context in which they are applied. Look at the top 10 papers in your area of Data for Good and make a list of the statistical methods used and data issues addressed. Then, use your list to find sessions, posters, authors, and research teams using these methods.

Be sure to use JSM and its resources to help plan your work for the next year, connect with old friends, and find new collaborators. I hope to see and talk with many of you at JSM! ■

ASA 2024 Video Contest—No Experience Required!

Attending the 2024 Joint Statistical Meetings in Portland, Oregon, August 3–8? If so, get ready to showcase your creativity and win big! The ASA wants to get to know you personally and gain perspective on topics that resonate with you. Using your cell phone, we challenge you to create a selfie video and address one of 10 contest prompts.

Our goal is to capture authentic and relatable experiences to share with our global community. And, in the digital age, what better way to foster a sense of connectedness under the "Big Tent" of statistics and data science than through the magic of video?

The contest will run during JSM, from August 4–6, and participation details will be available at the ASA Membership Booth (#709) and ww2.amstat.org/meetings/jsm/2024/videocontest.cfm. The lucky winner of a \$500 VISA gift card will be drawn at the end of the contest.

Reflections on CSP 2024 in



New Orleans

Nearly 400 statistical practitioners and data scientists convened in New Orleans February 27–29 to attend the 2024 Conference on Statistical Practice. The conference program included eight short courses, 52 poster presentations, and 21 concurrent sessions.

One of the hallmarks of CSP is it brings together applied statisticians who work in diverse settings to share new statistical methodologies and best practices in statistical analysis, design, consulting, and programming. By the end of the conference, participants had listened to practical and insightful advice, shared career advice, and established new friendships.



Jeremy Davenport and his jazz band play in the conference hotel's Davenport Lounge.

Opening Keynote Speaker

Cynthia Rudin, Earl D. McLean Jr. Professor of Computer Science at Duke University, opened the conference with the keynote address titled “Simpler Machine Learning Models for a Complicated World.” Rudin directs the Interpretable Machine Learning Lab with the goal of designing predictive models people can understand. She is the recipient of the 2022 Squirrel AI Award for Artificial Intelligence for the Benefit of Humanity from the Association for

2024 Conference on Statistical Practice Steering Committee

Julia Sharp, National Institute of Standards and Technology (Chair)

Margaret “Maggie” Betz, Purdue University (Vice Chair)

David Aaby, Northwestern University

Carroll Co, DLH

Kimberly Cressman

Allison M. Florance, Novartis Pharmaceuticals

Emily Griffith, North Carolina State University

Elena Khusainova, Yale University

Mary Jeanne Kwasny, Northwestern University

Donna LaLonde, American Statistical Association

Christina Link, American Statistical Association

Anne Meibohm

Sudeshna Paul, Emory University

Ralph (Mac) Turner, Phoenix Data Analytics

Emma Zohner, Rice University

the Advancement of Artificial Intelligence (the “Nobel Prize of AI”).

She discussed that although the trend in machine learning has tended toward building more complicated (black box) models, such models have not shown performance advantages for many real-world

data sets. Instead, simpler models (sometimes small enough to fit on an index card) can be just as accurate. However, the design of interpretable models for practical applications is challenging.

Rudin presented a new paradigm for machine learning that gives insight into the existence of simpler models for a large class of real-world problems and solves the interaction bottleneck. In this paradigm, machine learning algorithms are not focused on finding a single optimal model, but instead capture the full collection of good (i.e., low-loss) models, which are called “the Rashomon set.” Finding Rashomon sets is extremely computationally difficult, but the benefits are massive.

Concurrent Presentations and Panels

Concurrent presentations and panel discussions were based on the following four themes:

- Career, Professional, and Leadership Development
- Study Design and Data Management
- Implementation and Analysis
- Effective Communication

Within the Career, Professional, and Leadership Development theme, there were several panels on topics such as project management tools, ethics, statistical consulting training, and pathways and personal development for leadership. Concurrent session topics included reproducible research practices, building a strong collaborative workforce in biostatistics, and a comparative analysis of contractual risks in statistical consulting.

In the Study Design and Data Management theme, topics ranged from study design for generalized linear mixed modeling to data quality assessment.

Implementation and Analysis presentations described research on fisheries, mental health disparities, and health outcomes research.

Writing, publishing, building trust within a collaborative research group, communicating technical topics to nonstatisticians, and documenting collaborative efforts as statisticians in departments where leaders are nonstatisticians rounded out the Effective Communication theme.

Networking and Connecting

The more intimate structure of CSP facilitates interaction among attendees, which encourages discussions about conference programs. The steering committee made a concerted effort to facilitate networking—particularly among first-time CSP attendees.

Opportunities included dinners, guided networking, and interactive card games. The topically themed dinners included guided discussions about leadership, early-career professionals, and ethics. Some session panelists hosted group discussions that continued the panel conversations at dinner. Many attendees joined these group dinners to explore the topics in depth while enjoying the food scene in New Orleans and meeting new colleagues.



Beth Ely, statistician at the US Centers for Disease Control and Prevention, shares advice about early careers, leadership, and imposter syndrome. “A career isn’t something you plan, it’s something you look back on,” she says.



Amy Crisp, biostatistician and associate director of the Center for Data Solutions at the University of Florida, says, “Fear of failure is a self-fulfilling prophecy.”

At the last session break, guided networking promoted the interaction between participants and experts from academia, industry, and government. Jeremiah Aakre from the Mayo Clinic, Amy Crisp from the University of Florida, Beth Ely from the US Centers for Disease Control and Prevention, and Lauren Wilson from Sandia National Laboratory shared advice about topics such as imposter syndrome, career transitions, and leadership.

Closing Panel

CSP 2024 concluded with a panel discussion about the special issue of *Stat* titled *Statistical Consulting and Collaboration*. Panelists discussed

the success metrics from the special issue and pathways for applied and collaborative statisticians to disseminate their work in the future.

Closing panelists included the following:

- Helen Zhang, University of Arizona
- Lee-Ann Hayak, National Museum of Natural History
- Xiaoyue Niu, Penn State University
- Ji-Hyun Lee, University of Florida
- Robyn Ball, The Jackson Laboratory
- Harry (Dean) Johnson, Washington State University

The *Journal of Statistical Theory and Practice* will host peer-reviewed manuscripts from selected authors who presented at CSP 2024. The topical collection is targeted for publication in spring 2025.



From left: Talithia Williams of Harvey Mudd College, Kimberly Sellers of North Carolina State University, and Emma Benn of the Icahn School of Medicine at Mount Sinai participate in the panel titled “Data Driven: Leadership Avenues and Advantages for Quantitative Thinkers.”

Student Poster Awards

The following three students were awarded ASA student membership for their outstanding poster presentations:

- Joshua Cook from the University of West Florida presented work about a comprehensive analysis of the statistical considerations involved in developing a consensus statement.

- Xingruo Zhang from The University of Chicago presented work that extended an existing framework of R-squared measures for regular mixed-effects models. The proposed framework applies to two specifications of the random location effects: random intercepts with covariate-influenced variances and random intercepts combined with random slopes of observation-level covariates.
- Maria Camila C. Mejia Garcia from The University of Texas Rio Grande Valley presented work applying imputation techniques for classification implemented in a simulation study of a data set from a Brazilian Hospital.

Travel Award Winners

Garrett Duncan was awarded the John J. Bartko award for financial support to attend the conference. Duncan completed his master’s program earlier this year at Brigham Young University and would like to pursue a PhD.

Xingruo (Summer) Zhang was selected to receive the Lester R. Curtin Award to travel to CSP. Zhang will graduate in June 2024 from The University of Chicago’s PhD program.

The Lingzi Lu Memorial Award was presented to Kristin Gaffney, who completed her Master of Public Health degree with a biostatistics concentration at the University of Nebraska Medical Center College of Public Health in 2022.

Read more about these student award winners at bit.ly/3RCcmPC.

Future of CSP

The statistics landscape is constantly evolving, and we recognize the need to adapt and innovate to meet the changing needs and expectations of our community members. In 2025, we will be re-envisioning CSP and—to allow for a productive process—the ASA has decided not to host the conference. This is going to afford us the opportunity to consider how CSP might look going forward.

Your input and feedback is invited and especially valued since CSP has always been focused on attendees’ needs and wishes. Please use the form at bit.ly/Future-CSP to share your suggestions, concerns, and ideas. ■

Jay Bartroff, ASA member and professor and associate chair of the statistics and data sciences department at The University of Texas at Austin, and his former PhD advisee Jinlin Song of Analysis Group recently received the 17th Abraham Wald Prize in Sequential Analysis for their paper, “Sequential Tests of Multiple Hypotheses Controlling False Discovery and Nondiscovery Rates.” Their achievements were celebrated at the International Workshop in Sequential Methodologies in Orem, Utah, in May.

The Abraham Wald Prize in Sequential Analysis honors the best publication in sequential analysis each year. Established in 2004, the prize is named for statistician Abraham Wald, who founded the sequential analysis field. ■

ASA Founder and Fellow

James J. Cochran was recently selected by the American Society for Quality Statistics Division as the recipient of the 2023 William G. Hunter Award.

Cochran’s research focuses on problems at the interface of statistics and operations research, and he has taught a wide variety of statistics and operations courses—from introductory courses to PhD seminars.

Cochran was honored to receive the award and said it award was particularly meaningful “because this award was established over 30 years ago to recognize the many contributions Hunter made through promoting statistical thinking and the use of applied statistics in an amazingly wide variety of roles.”

Cochran was a founding co-chair of Statistics Without Borders and a member of the founding committee for INFORMS Pro Bono Analytics initiative. He is also the 2015 recipient of the Karl E. Peace Award for Outstanding Contributions for the Betterment of Society, the 2017 recipient of the Waller Distinguished Teaching Career Award, and the 2018 INFORMS President’s Award.

While receiving the award, Cochran said he and Hunter “share concern for the quality of life, statistical capacity, and development of statistics communities in smaller and less wealthy nations.” He continued, “Dr. Hunter and I also feel strongly that statistics is the embodiment of the scientific method and is therefore the foundation of all other sciences. I owe a great debt to our discipline, too.”

In closing, Cochran said, “Today and every day, I am thankful that I found statistics and that statistics found me.”

The William G. Hunter award was established by the statistics division in 1987 to recognize the many contributions of its founding chair to promoting the use of applied statistics and statistical thinking. The attributes that characterize Hunter’s career—consultant, educator for practitioners, communicator, and integrator of statistical thinking into other disciplines—are used to help decide the recipient.

Read Cochran’s talk at williamghunter.net/award/2023, as well as view past recipients of the Hunter Award. ■

The late **Ronald LaPorte**, a University of Pittsburgh emeritus professor of epidemiology and role model to many, became enamored with the internet in the 90s. He quickly realized the enormous potential the World Wide Web offered to deliver education and knowledge to the masses, which led him to establish “Supercourse”—a collection of lectures from leading experts on all aspects of public health.

This past October, in honor of LaPorte’s 75th birthday, the Supercourse Team created a playlist of lectures—each one a birthday present to LaPorte. Reflecting on his pioneering spirit, colleague Thomas Songer remarked, “Ron’s birthday reminds me of his early adoption of new technologies—BITNET, vibrant slides, PowerPoint, the Supercourse model, and of course, the internet. Today, I’m struck by the advent of artificial intelligence. Ron would have undoubtedly explored how to leverage AI for public health education. The beauty of AI is that it likely encompasses insights from all the Supercourse lectures. As we integrate AI into our endeavors, a piece of Ron’s vision lives on. Well done, Ron!”

The playlist includes lectures such as “How to Write a Scientific Paper” and “COVID-19 Pandemic: Four Year Review. Decoding the Pandemic.” Access the playlist at bit.ly/3KUIABI.

For information about Supercourse, visit the website at <https://sites.pitt.edu/~super1>. ■

Health Policy Statistics Section Seeks Award Nominations

The American Statistical Association Health Policy Statistics Section Achievement Awards are seeking nominations. The awards honor individuals who have made significant contributions to the development of statistical methods or have developed innovative statistical applications for health policy or health services research and are given to encourage research in these areas and increase awareness of the HPSS in the statistical community.

Selection Criteria

1. The HPSS Mid-Career Award recognizes leaders in health policy and health services research who have made outstanding contributions through methodological or applied work. The award honors those who show promise of continued excellence at the frontier of statistical practice that advances the aims of HPSS. Candidates must be within 15 years of their terminal degree on January 1, 2025, and cannot be previous HPSS Mid-Career Award winners.

2. The HPSS Long-Term Excellence Award recognizes significant contributions to health policy and health services research through mentoring and/or service that advance the aims of HPSS. Candidates must be over 15 years from their terminal degree on January 1, 2025, and cannot be previous HPSS Long-Term Excellence Award winners.

Award Recipient Responsibilities

The award recipient will provide a current photograph and general personal information. The ASA will use this information to publicize the award winners.

Nominations

Application submissions open July 1. Nominations are due by midnight ET on September 15. Please send the following materials to hpsswebsite@gmail.com:

- A curriculum vitae
- A letter from the nominator summarizing the nominee's credentials (not to exceed two pages)
- Optional additional independent letters from individuals other than the nominator or nominee
- Contact information for the nominee or nominator (if different)

Recent award recipients can be found at bit.ly/4czC1Ae. ■

WSDS Provides Student Travel Awards

Awards are available to help students and early-career professionals pay for the Women in Statistics and Data Science Conference.

To be eligible, applicants must be either students enrolled in a terminal degree program (bachelor's, master's, or doctoral) in biostatistics, statistics, or data science or have completed a master's or doctoral degree program in biostatistics, statistics, or data science within the last five years (2019–2024).

Applications must be received by 5:00 p.m. ET on September 6. Visit the WSDS website at ww2.amstat.org/meetings/wds/2024/awards.cfm to submit an application.



Visit the ASA website to view a comprehensive list of awards and scholarships.

Quality and Productivity Section Offers Mentoring Programs

The Quality and Productivity Section recently revived its mentoring program with the aim of helping Q&P members enrich their professional experience through achieving their goals. Specifically, the chapter intends to connect those wanting mentoring with those wanting to mentor and to facilitate those interactions.

Sharing knowledge and experience can be mutually rewarding. A constructive mentoring relationship can take many forms and occur at any career stage. Benefits for mentees and mentors include building connections and networks, passing on knowledge, and bridging the gap among generations. Mentoring also matures the statistics profession, identifies emerging talents, and enhances professional relationships.

To participate in the mentoring program, complete one of the forms below by August 2. The program committee will make every effort to find a suitable match for all applicants and notify them of the outcome by August 16. The mentoring committee will then facilitate initial meetings between matched mentors and mentees.

To be mentored, visit <https://forms.gle/ZpQm1fkDgvBeFgCD6>.

To mentor, visit <https://forms.gle/yBL5mTjngmr5gNb88>.

For additional information regarding the program, visit community.amstat.org/qp/mentoring/new-item. For questions or to have a form sent to you, email Reid Landes at rdlandes@uams.edu or Daksha Chokshi at daksha.chokshi@L3Harris.com. ■



Detroit, Ann Arbor Chapter Members Judge Science Fair Projects

Karry Roberts, Detroit Chapter Secretary

Members of the Detroit and Ann Arbor chapters served as professional award judges for the Michigan Science and Engineering Fair on April 6. The event was held at Lawrence Technological University in Southfield, Michigan, with qualifying students from the state’s regional fairs.

The chapter members judged 58 posters, first as teams of 2–3 judges, then as a whole group for

those projects identified as award contenders. They gave eight monetary awards at levels of Excellence, Distinction, and Merit and 24 additional certificates of recognition. Both chapters sponsored the monetary awards.

The table below includes the winners, along with their school names and teachers.

Award	Student(s)	Project	School	Teacher
Excellence (\$200)	Vikram Goddla	Optimal Sparsification & Low-Rank Decomposition for Reinforcement Learning	Detroit Country Day Upper, Beverly Hills	Patricia Hanlan
Distinction (\$100)	Navade Haq	Predicting Lacrosse Team Success Using Multiple Regression	Detroit Country Day Upper, Beverly Hills	Harry Fried
Merit (\$50)	Gavin Gutierrez	Testing the Effect of Dendritic Copper in Homemade Thermal Epoxy	Saginaw Arts & Sciences, Saginaw	John Barnes
Merit (\$50)	Sahiba Kaur	SmartSwabs: A Study of Group Testing Efficiency on Real-World Data	Midland H.H. Dow High School, Midland	Christine Brillhart
Merit (\$50)	Rohit Mahesh	EmbryoSync: Enhancing IVF Success with Predictive Physiological Analytics	Salem High School, Canton	Danielle Ramos
Merit (\$50)	Dhruti Pattabhi	A Deep Learning Approach to Dementia Detection Using Clock Drawing Figures	Canton High School, Canton	Danielle Ramos
Merit (\$50)	Emaad Qureshi	Investigating Injury Signals in Wound Repair & Tissue Regeneration	Kalamazoo Area Math & Science Center, Kalamazoo	Rebecca Joyce
Merit (\$50)	Achyut Reddy	Improving Depression Diagnosis with Color Psychology	Detroit Country Day Upper, Beverly Hills	Rami Baroodi



The ASA judging team at the Michigan Science and Engineering Fair (from left): Hon Yiu (Henry) So, Z. Tuba Suzer-Gurtekin, Keshav Pokhrel, David Corliss, Frank Murdock, Trico (TJ) Lutkins, Karry Roberts, Sukanya Das, Bern DeBacker, and Alex Verros. Not pictured: Xianggui (Harvey) Qu.

Photo courtesy of Karry Roberts

Judging Team

- David Corliss
- Sukanya Das
- Bern DeBacker
- Trico (TJ) Lutkins
- Keshav Pokhrel
- Xianggui (Harvey) Qu
- Karry Roberts
- Hon Yiu (Henry) So
- Alex Verros
- Frank Murdock
- Z. Tuba Suzer-Gurteki

School	Count	Students	Teachers
Cranbrook Kingswood Upper School, Bloomfield Hills	6	Michael Hua Eric Jiang Shiyuan Li Vineet Saravanan Haodong Wei Tengyue Zhang	Stephanie Kokoszka
Kalamazoo Area Math & Science Center, Kalamazoo	4	Georgia Edmonds & Ishwari Bhatt David Li Ningzhi Luo-li & Sarina Choudhury Aryaman Mishra & Jason Shaye	Rebecca Joyce
Saginaw Arts & Sciences, Saginaw	4	Jett Miller Sarah Parashar Diya Ramakrishnan Saiyan Tabrej	Matthew Miller Johanna Polzin John Barnes
Midland H.H. Dow High School, Midland	2	Christine Cai & Jessica Chai Louis Huang	Christine Brillhart Kristin Weston
Northville High School, Northville	2	Rishi Chowdhury Brian Zhang	Gabriel Pak
Troy High School, Troy	2	Atul Ganesh Jessica Wu, Megan Sawant, & Sophia Tran	Rebecca Brewer
Canton High School, Canton	1	Tesko Chaganti	Danielle Ramos
Detroit Country Day Upper, Beverly Hills	1	Ashrita Reddy	Karen Lamb
Novi Senior High School, Novi	1	Harish Narayan	James Didio
Pioneer High School, Ann Arbor	1	Anthony Yang	Steve Armstrong

Mentoring Is the Way

ASA Mentoring Working Group Discusses Findings, Next Steps

Carolyn M. Rutter, Fred Hutch Cancer Center; Nicola Justice, Pacific Lutheran University; Frost Hubbard, Westat; and Ruth Etzioni, Fred Hutch Cancer Center



MORE ONLINE

Do you have areas of practice you would like to build communities around? Let the working group know.

Mentoring can change individual lives and enhance the diversity and breadth of our profession. In the words of ASA President Bonnie Ghosh-Dastidar, “Our careers and life journeys are unique but, for many of us, they retain the indelible footprints of our mentors.”

Indeed, her career path demonstrates the impact mentoring can have. To help ensure others can benefit in the same manner, she is working with a team of ASA members to understand strategies of successful mentoring programs and identify potential gaps. The Mentoring Working Group, created as part of her presidential initiative, conducted an environmental scan that included surveys of the ASA community.

Section and Chapter Survey

The group assessed ongoing and potential mentoring activities conducted by ASA sections and chapters by asking officers the following three questions:

- Do you currently sponsor a mentoring program?
- Do you feel it is adequate for the demands of your membership?
- Would an association-wide mentoring program with novel models for mentorship be of interest?

In two weeks, the working group received responses from 23 sections and 11 chapters. A number of sections (26% of sample) and chapters (9% of sample) offer a mentoring program, with 47% indicating uncertainty about whether member demands were adequately met. Most (76%) respondents thought an association-wide mentoring program would be of interest to their members; another 21% were unsure.

The group also included an open-ended question allowing for input and advice and building upon section and chapter efforts as they work toward an ASA-wide program. A key issue that came through in the comments was the importance of sustainability. As

Mentoring Working Group Members

- Prince Allotey
- Maria DeYoreo
- Ruth Etzioni (co-chair)
- Frost Hubbard
- Madhu Mazumdar
- Carolyn Rutter (co-chair)
- Donna LaLonde (ASA liaison)

To learn more about communities of practice, check out *Situated Learning: Legitimate Peripheral Participation and Cultivating Communities of Practice: A Guide to Managing Knowledge*.

one respondent wrote, “The main concern is always the burden on the officers who are volunteering their time.” This can lead to a cycle of great enthusiasm for a program that withers, only to be picked up again a few years later with renewed enthusiasm. The working group’s goal is to break this cycle and build a sustainable mentoring model.

Member Survey

Next, the group turned to ASA members. Their online questionnaire included the following three questions:

- Do you currently participate in formal or informal career mentoring?
- Would you be willing to participate in a new ASA-wide career mentoring program?
- If yes, would you be willing to participate as a career mentor, mentee, or both?

The working group received responses from 179 members in two weeks. Responses came from members across a range of employment sectors: 45% were from academia/education; 17% were

from business/industry; 10% were from nonprofit; 9% were from government; 5% were independent contractors/consultants; 11% were students; and 3% were retired.

Overall, 59% of responding members participate in career mentoring and 81% indicated they would be willing to participate in a new ASA program. Of the 41% not currently participating in mentoring, 77% were willing to participate in a new ASA program. Two-thirds of members were interested in participating as a mentor to give back, and 43% were willing to participate as both a mentor and mentee, which is an idea the working group will build upon.

A few themes arose from open-ended responses. One was that mentoring is an ongoing need and not just for students and people beginning their careers. There is a clear need for mid-career mentoring. Mentoring can help navigate many facets of being a professional at this stage, including work-life balance.

Another theme was the value of receiving mentoring from outside one's organization or institution of employment. For example, mentoring can address workplace isolation, which can result from being the 'only one' in the workplace (members noted being the only female or only statistician).

A third theme was around poor 'matches' in prior one-to-one mentoring experiences that may reflect differences in values or lack of clear expectations. One pointed to a community-based approach to mentoring: "I particularly enjoyed the [mentoring] circles, as there is great power in the peer-to-peer discussions."

ASA to Cultivate Communities of Practice

Ghosh-Dastidar's mentoring initiative builds on three principles: collaboration; community; and opportunity. Aligning with these principles, the working group chose communities of practice as the central component of the mentoring initiative.

Although the term "communities of practice" is new, it describes a structure that has existed for centuries. Members have a shared goal or specific practice that defines the community. The community includes members across a broad swath of experience levels, from novice to expert.

Having participants at various experience levels means there is less pressure on one person to answer all the questions and a wider range of avenues for questions and conversations. Communities of practice foster a culture of learning and growing together and enable peer-to-peer mentoring and co-mentoring. A community of practice may be as small as three members or as large as 100.

Communities of practice would complement the one-to-one programs offered by many sections and chapters and found in many institutions. They would also address many of the limitations that can arise within one-to-one mentoring relationships.

One such issue is power dynamics: When the mentor has more power than the mentee, it can undercut the effectiveness of mentoring.

Another issue is the unrealistic expectation that one person can address all mentoring needs. One-to-one mentoring depends heavily on the ideas of one person, rather than collective wisdom.

Finally, one-to-one mentoring relationships are a large investment for both the mentor and mentee. While they can be mutually rewarding, this high level of investment limits both their reach and sustainability.

Next Steps

Communities of practice often arise naturally but can be formed intentionally. Methods for cultivating communities of practice often involve gathering in person, but the working group members prefer strategies available for a remote community. This approach is more inclusive of ASA members who may not be able to meet in person and would benefit from joining a community of practice.

Communities of practice could be built as an extension of educational and career advice webinars, which would be used to identify a core group of people interested in a common topic.

An initial group of at least three people committed to building the community would be identified. Volunteers would be provided with a set of guidelines to help them foster the community and set expectations and boundaries. The goal is to avoid overburdening these volunteers and develop a sustainable approach to building communities of practice.

Guidelines will include a plan for periodically reviewing and facilitating disbanding communities that have served their purpose and splitting communities that become too large for meaningful connections into smaller groups. The community would kick off with a video call and may choose to have regularly scheduled calls. Ongoing engagement and discussion would happen through online communities formed on the ASA Community. These connections would be strengthened by occasional in-person meetings at ASA conferences (of the communities' choosing).

Your Thoughts

Do you have areas of practice you would like to build communities around? Let the working group know by visiting the mentoring in community homepage at community.amstat.org/mentoringincommunity and filling out the online interest form. In the ASA Community, you can also search "mentoring in community" and join the community to reach out to working group members. Finally, you can talk with them at the Joint Statistical Meetings in August or attend an upcoming virtual town hall meeting. ■

Professional Opportunity listings are shown alphabetically by state, followed by international listings. Vacancy listings may include the institutional name and address or be identified by number, as desired.

The deadline for their receipt is the 20th of the month two months prior to when the ad is to be published (e.g., May 20 for the July issue). Ads will be published in the next available issue following receipt.

Professional Opportunities vacancies also will be published on the ASA's website (www.amstat.org). Vacancy listings will appear on the website for the entire calendar month. Ads may not be placed for publication in the magazine only; all ads will be published both electronically and in print.

These listings and additional information about the professional opportunity ads can be found at ww2.amstat.org/ads.

Employers are expected to acknowledge all responses resulting from publication of their ads. Personnel advertising is accepted with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual orientation.

Also, look for job ads on the ASA website at <https://jobs.amstat.org/jobseekers>.

Utah

■ Utah State University (in the beautiful Cache Valley) seeks applications for a non-tenure-track Professional Practice Assistant Professor in Statistical Consulting, beginning January 2025. This position will provide statistical consulting to the USU Ecology Center and also teach and advise graduate students in the Department of Mathematics and Statistics. View details at math.usu.edu/jobsearch. Application reviews begin August 1.

INTERNATIONAL

Korea

■ SUNY Korea, a global campus of Stony Brook University, seeks applicants for Chair, a tenure-track, and a teaching faculty positions starting Spring 2025.

Qualifications: American education experience, fluent English, PhD in mathematics, statistics, or a related field.
To apply: Send cover letter, CV, teaching statement, research statement (for Chair and tenure track), list of three references (five for Chair) to hongshik.ahn@stonybrook.edu.

1. Teaching Faculty Position

<https://bit.ly/4bguFRr>

2. Tenure-Track Faculty Position

<https://bit.ly/4bBIsIP>

3. Chair Position

<https://bit.ly/3ziF5CB>

Websites:

www.sunykorea.ac.kr

www.ams.stonybrook.edu

Singapore

■ The Department of Statistics and Data Science at the National University of Singapore is one of the leading departments of its kind in Asia and globally. Comprising close to 40 full-time faculty members and around 70 research staff and PhD students, along with a strong network of industry affiliates, the department fosters a comprehensive and engaging research and educational environment in the areas of statistics and data science. We invite applications for departmental postdoctoral positions. These non-tenure-track positions are aimed at early-career researchers, particularly recent or soon-to-be PhD graduates, with research interests that overlap or

complement those of our faculty members. The positions offer an initial two-year appointment with the potential for a one-year extension. Successful candidates will receive a competitive annual salary of up to SGD90,000, along with generous travel support. Additionally, candidates will be provided with relocation and housing allowance. Teaching responsibilities involve two courses per year. In order to apply, submit a cover letter, curriculum vitae, research and teaching statements, and at least three letters of recommendation through Mathjobs.org at www.mathjobs.org/joblist/24646. More information about the university and the department can be found at www.nus.edu.sg and www.stat.nus.edu.sg.

■ The Department of Statistics and Data Science at the National University of Singapore invites applications for full-time open-rank positions in statistics, data science and related areas at tenure track and tenured levels. The National University of Singapore offers internationally competitive salaries, generous research funding, travel support, relocation assistance and other benefits. The department has nearly 40 faculty members and provides a stimulating research environment. Applicants must have demonstrated exceptional research potential. For the associate and full professor positions, they must also have a track record of excellence in teaching and leadership. Submit a cover letter, curriculum vitae, research and teaching statements, and at least three letters of recommendation to Mathjobs.org. We have an ongoing recruitment process and will review applications as they are received. More information about the university and the department can be found at www.nus.edu.sg and www.stat.nus.edu.sg. ■

Statistical Analyst

The Office of Biostatistics is recognized for excellence in the application and communication of statistical science in drug regulation and development. We play a central role in promoting innovative, science-based, quantitative decision-making throughout the drug development life-cycle. To support our Center’s mission, we provide statistical leadership, expertise, and advice to ensure that safe and effective drugs are available to the American people.

DUTIES AND RESPONSIBILITIES

- Work with a multidisciplinary review team to provide statistical programming and data management support, assess the quality and completeness of submissions, prepare clinical trial analysis datasets, validate sponsor results, assist in modeling and simulation, and suggest possible additional statistical analyses required to fully evaluate the evidence in the submission.
- Collaborate with scientists from the Office of Pharmaceutical Quality, statistical reviewers in OB, and management on a variety of computationally intensive projects to support and improve the efficiency of regulatory product review, evaluation of pharmaceutical quality and applied regulatory research.
- Use machine learning and natural language processing to assess internal and external data sources to support assessment of quality intelligence throughout the product life cycle.
- Develop, validate, implement, document, maintain and support programming tools and software according to standards and accepted validation procedures; Support efforts to develop, document and apply reusable code and/or tools.
- Develop software using the appropriate statistical programming packages for statistical reviewers to support programming-intensive review-related activities such as sensitivity analysis, Bayesian approaches, clinical trials modeling, genomic studies, psychometric Clinical Outcome Assessment (COA) validation, and simulation.
- Promote and improve the Center data standards initiatives mandated by the Prescription Drug User Fee Act; Monitor the quality of the implementation of data standards used in New Drug Application submissions.
- Apply your skills to address unique and precedent-setting problems, while refining your consulting, communication, and presentation skills.

REQUIRED QUALIFICATIONS

Master’s degree in statistics or biostatistics.
 Familiarity with R, SAS, data science tools, machine learning predictive techniques and natural language processing.

PREFERRED QUALIFICATIONS

Experience in clinical trials, epidemiology, genomics, or risk assessment. Strong skills in multiple programming environments.
 Candidates should also have excellent oral and written communication skills.
 The ability to communicate statistical issues to non-statisticians is vital.

BENEFITS

Health and Life Insurance
 Long-term Care Insurance
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 Paid Holidays
 Flexible Spending Accounts (FSA)
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WORK/LIFE BALANCE

Telework & Alternative Work Schedules
 Child Care Center | Fitness Center
 Employee Assistance Program/Resource Groups
 Commuting and Transportation Programs



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LOCATIONS

Statisticians are located in the Washington, D.C. area.
 Remote employment may be available.

Mathematical Statistician

The Office of Biostatistics is seeking individuals with strong statistical methodology skills and an interest in biomedical applications to serve as mathematical statisticians. Incumbents work with multidisciplinary teams of review scientists in a dynamic, highly challenging, and innovative atmosphere of development, evaluation, and research of drug and therapeutic biologics. The Office of Biostatistics is responsible for reviews in all therapeutic areas CDER supports and can be as diverse as cardio-renal, oncology, rare disease, and antimicrobial products. Incumbents have an opportunity to employ a broad variety of statistical procedures relevant to pre-clinical and clinical evaluation decisions for new and generic drugs as well as new and biosimilar biologics and the emerging field of quantitative risk assessment.

DUTIES AND RESPONSIBILITIES

- Evaluate and advise on protocols for clinical studies and assess the evidence for safety and efficacy from clinical studies submitted in drug and biologics applications.
- Employ a broad variety of statistical procedures relevant to pre-clinical and clinical evaluation decisions for new and generic drugs as well as new and biosimilar biologics and the emerging field of quantitative risk assessment.
- Work with multidisciplinary teams of review scientists in a dynamic, highly challenging, and innovative atmosphere of development, evaluation, and research of drug and therapeutic biologics.
- Refine your consulting, communication, and presentation skills and present at domestic and international professional meetings.
- Engage in an active collaborative regulatory research program which will allow you to advance your skills and professional development.
- Interact with national, international, public, and private organizations on statistical issues, and help develop guidance for the pharmaceutical industry.

QUALIFICATIONS

Applicants should possess an advanced degree with specific coursework in Statistics, Biostatistics or Mathematical Statistics. Applicants with a doctoral degree and associated experience are highly desirable. In addition to a background in statistics, applicants should have an interest in biostatistics, clinical trials, epidemiology, genomics, or risk assessment.

The ability to communicate statistical issues to non-statisticians is vital.

Non-US citizens may apply for term appointments.

BENEFITS

Health and Life Insurance
 Long-term Care Insurance
 Dental and Vision Insurance
 Annual and Sick Leave

Paid Holidays
 Flexible Spending Accounts (FSA)
 Federal Retirement Plan
 Thrift Savings Plan (401k)

WORK/LIFE BALANCE

Telework & Alternative Work Schedules
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LOCATIONS

Mathematical Statisticians are located in the Washington, D.C. area.
 Remote employment may be available.

Possibilities and Probabilities

We offer statisticians an invigorating and supportive environment where innovation is part of the mission—and people are at the heart of what we do. Collaborate with some of the best statisticians and data scientists in the nation at the U.S. Census Bureau, where we measure the U.S. population and economy.

Why Work at the Census Bureau?

The value you bring is reflected in our competitive salaries and incentives, best-in-class federal benefits, and flexible schedule offerings. We value:

- Your creativity, ingenuity, and agility.
- Your unique characteristics, skills, and experience.
- Your contributions to our team of world-renowned statisticians.
- Your work-life balance.
- Your career growth and development.

With a strong and adaptive workforce, the Census Bureau can remain at the forefront of data innovations, data quality, and public trust.

What you will do

- Design sample surveys and analyze collected data.
- Research statistical methodology to improve the quality and value of data.
- Collaborate on the design of experiments to improve survey questionnaires and interview procedures.
- Publish study reports and research papers.

What you need

- **Mathematical Statistician**
 - A U.S. Citizenship.
 - A bachelor's degree or higher with at least 24 semester hours of math and statistics, including 12 semester hours of mathematics and 6 hours in statistics.
- **Statistician**
 - A U.S. citizenship.
 - A bachelors degree or higher with at least 15 semester hours of math and statistics, plus 9 semester hours in social science or business.

Join the U.S. Census Bureau!
Apply at [census.gov/jobs](https://www.census.gov/jobs) today.

The U.S. Census Bureau is an equal opportunity employer.



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professional opportunities

US Food and Drug Administration p. 45, 46

US Census Bureau p. 47

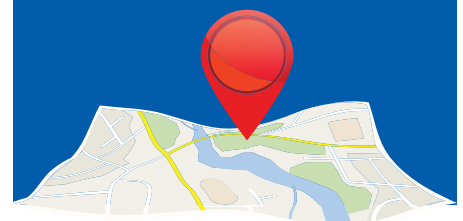
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This month's Top 10 is the 'Top Ten **Journals You Might Not Want to Publish In**'

Amstat News continues its entertaining offering by ASA Executive Director Ron Wasserstein, who delivers a special Top 10—one that aired during a recent edition of *Practical Significance*. He says, "Many of you are writing papers and thinking about where to publish them. That's often a challenging decision, so we want to assist you by providing the list of the top 10 journals you might not want to publish in."



Wasserstein

10

Journal of Reinventing the Wheel

09

International Journal of Unsupported Conclusions

08

Journal for Extensive Self-Citation

07

Journal of Casual Inference

06

Journal of the Association for Overhyped Results

05

American Journal of p -Hacking

04

The Comment-Free R Code Digest

03

Burn Before Reading Magazine

02

National Journal of Argumentum Ad Hominem

#01

Journal of Soon-to-Be-Retracted Findings



To listen to the *Practical Significance* podcast, visit <https://magazine.amstat.org/podcast-2>.





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Introducing StataNow™.

New features straight from development to you.

Enjoy seamless access to Stata's latest features with StataNow. This continuous-release version provides users instant access to the newest statistical capabilities, reporting tools, and interface enhancements without waiting for major releases. Latest StataNow features include:

- High-dimensional fixed effects
- Bayesian quantile regression
- Meta-analysis for correlations
- Instrumental-variables SVAR
- Colors by variable for more graphs
- And more.

See all the latest features at stata.com/new-in-stata/features.

The collage displays several StataNow windows:

- Do-file Editor:** Shows a script with commands like `use hetdid_data, clear`, `// Variable completion`, and `xthtdidregress aiwp (con)`.
- Command Window:** Displays the command `. areg ln_wage c.age#c.age, absorb(idcode county occ_code) nolog` and its output:

Linear regression, absorbing indicators		Number of obs =	28,389
		F(2, 19680) =	1028.80
		Prob > F =	0.0000
		R-squared =	0.7381
		Adj R-squared =	0.6222
		Root MSE =	0.2939
- History Window:** Lists previous commands such as `webuse nlswork`, `set seed 111`, and `generate county = runiformint(1,4000)`.
- Graphs:**
 - Instrumental-variables SVAR:** Shows plots for `model1, inflation, inflation` and `model1, inflation, g_growth`.
 - Random-effects REML model:** A forest plot showing correlation estimates for various studies (e.g., Chickpea, Lentil, Bean) with 95% confidence intervals.
- Dialog Boxes:**
 - Absorbed variable Levels:**

idcode	4,698
county	3,998
occ_code	13
 - Linear regression coefficients:**

	ln_wage	Coefficient	Std. err.	t	P> t	[95% conf. interval]
age		.0484818	.0030146	16.08	0.000	.0425729 .0543906
c.age#c.age		-.0005304	.0000499	-10.63	0.000	-.0006283 -.0004326
_cons		.7380957	.0439589	16.79	0.000	.6519325 .8242589
 - Test of absorbed indicators:** `F(8706, 19680) = 5.605 Prob > F = 0.000`