2021

Awards & Lectures ▶
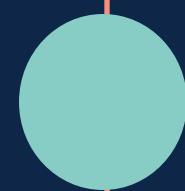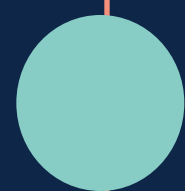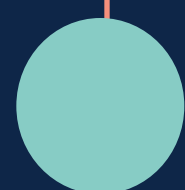
- American Statistical Association
- Institute of Mathematical Statistics
- Committee of Presidents of Statistical Societies

Awards
American Statistical Association (ASA)

ASA Pride Scholarship

Holly Bossart
Carnegie Mellon University

To Holly Bossart, PhD student in statistics at Carnegie Mellon University, for her purposeful efforts to make her department and its admissions, curriculum, and events more welcoming to the LGBTQ+ community at large and her continuing commitment to justice, equity, diversity, and inclusion.

Evan August Boyle
University of California, San Diego

To Evan Boyle, postdoctoral scholar at the University of California, San Diego, for his dedication and commitment to fostering diversity in the STEM fields through the formation of the Diversity and Science Lecture Series and the development of a Queer Science Society website and virtual community.

ASA IMS COPSS

Appreciation for Retiring Editors

Ricardo Cao
Universidade da Coruña, Spain

Editor
Journal of Nonparametric Statistics
2019–2021

Jianqing Fan
Princeton University

Co-Editor
Journal of Business & Economic Statistics
2019–2021

Tyler McCormick
University of Washington

Editor
Journal of Computational and Graphical Statistics
2019–2021

Jeffrey Witmer
Oberlin College and Conservatory

Editor
Journal of Statistics and Data Science Education
2019–2021

Michael Elliott
University of Michigan

Editor-in-Chief
Journal of Survey Statistics and Methodology
2019–2021

Christian Hansen
The University of Chicago Booth School of Business

Co-Editor
Journal of Business & Economic Statistics
2019–2021

Jerome Reiter
Duke University

Editor
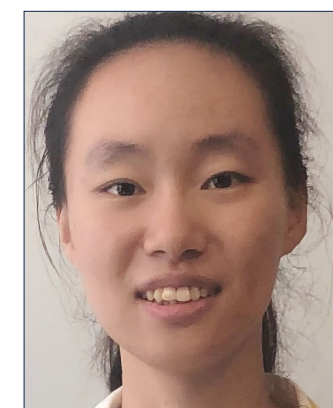*Statistics and Public Policy*
2019–2021

Heping Zhang
Yale University

Editor, Applications and Case Studies and Coordinating Editor
Journal of the American Statistical Association
2019–2021

ASA IMS COPSS

Edward C. Bryant Scholarship for
an Outstanding Graduate Student in
Survey Statistics

Sepideh Mosaferi
Iowa State University

Xiaofei Zhang
Iowa State University

Causality in Statistics Education Award

Kevin Cummiskey
West Point

"Causal Inference in
Introductory Statistics Courses"

Jason Roy
Rutgers University

"A Crash Course in Causality"

ASA IMS COPSS

Gertrude M. Cox Scholarship in Statistics Award

Elizabeth Chase

University of Michigan

To Elizabeth Chase, a biostatistics PhD student at the University of Michigan, for academic success and research in Bayesian shrinkage methods for semiparametric modeling, as evidenced by numerous publications and awards, and for an extraordinary commitment to community service and leadership in the biostatistics community.

Anni Hong

Carnegie Mellon University

To Anni Hong for her extraordinary leadership and volunteerism in using statistics to support underprivileged communities; for academic success in pursuit of a PhD in statistics and data science at Carnegie Mellon University; and for promising interdisciplinary research in statistics for social science.

Elle Butler Basner

The Pennsylvania State University

To Elle Butler Basner, a statistics PhD student at The Pennsylvania State University, for exceptional leadership in her local statistics community and for academic success in her research developing methodology for single-cell genomics data.

Natalie Gasca

University of Washington

To Natalie Gasca, a biostatistics PhD student at the University of Washington, for a commitment to outreach and mentoring of underrepresented groups in biostatistics and the broader STEM community and for success in interdisciplinary research.

Taylor Mahoney

Boston University

To Taylor Mahoney, a PhD student in biostatistics at Boston University, for her resilience and ability to overcome challenges in order to achieve academic success and for her commitment to volunteerism and mentoring of first-generation college students.

ASA   IMS   COPSS

Jackie Dietz Best *Journal of Statistics and Data Science Education* Paper Award

Lynette M. Hudiburgh
Miami University

Diana Garbinsky
Miami University

For their paper, "Data Visualization: Bring Data to Life in an Introductory Statistics Course"

W. J. Dixon Award for Excellence in Statistical Consulting

David DeMets
University of Wisconsin

For providing wise counsel to investigators making difficult decisions that straddle statistical, ethical, medical, and regulatory issues; for developing new statistical methods that significantly impact the practice of clinical trials; for excellence in teaching and dissemination of knowledge to clinical trialists that link the proper trial design with its conduct, data analysis, and interpretation; and for superb textbook writing.

Excellence in Statistical Reporting Award

Aaron E. Carroll
Indiana University School of Medicine

For impactful reporting of complex science to the general public and excellent coverage of health research and health policy with correctness, clarity, fairness, brevity, and professionalism.

ASA   IMS   COPSS

Fellows

American Statistical Association (ASA)

Walter T. Ambrosius

Wake Forest School of Medicine

For outstanding leadership in the design, implementation, analysis, and dissemination of results of large-scale collaborative multi-center clinical trials; for exemplary academic leadership as department chair; and for service to the profession.

Kellie J. Archer

The Ohio State University College of Public Health

For exemplary research associating high-throughput 'omic' data to clinical outcomes; for methodological contributions to high-dimensional data analysis; and for outstanding educational contributions to the statistical analysis of genomic data.
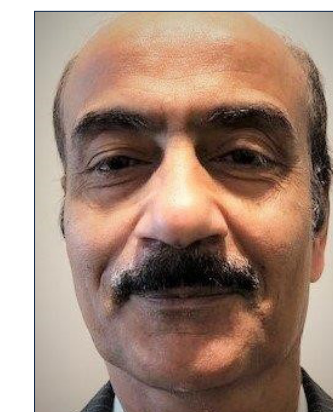
Vipin Arora

Eli Lilly and Company

For important statistical contributions to major drug development projects; for extensive service to the profession through impactful ASA section activity and numerous conference organization efforts; and for influential educational outreach fostering academia-industry interactions.

ASA IMS COPSS

Amit Bhattacharyya

Alexion Pharmaceuticals

For extensive service to the profession through numerous leadership positions in ASA sections and committees and international statistical communities and for his contributions to statistical leadership, collaborations, and research in drug development and public health.

Julia L. Bienias

Nielsen

For developing innovative statistical procedures in government surveys and medical studies of health and aging; for developing statistical software to conduct these procedures; and for extensive mentoring of young statisticians, especially women.

Jeffrey D. Blume

Vanderbilt University School of Medicine

For exceptional educational leadership establishing graduate programs in biostatistics and data science; for outstanding impact on medical research and clinical practice; and for developing and advocating likelihood inference methods.

Thomas M. Braun

University of Michigan School of Public Health

For outstanding contributions to the design of clinical trials, especially for Bayesian adaptive methods for early-phase oncology trials, and for exemplary dedication to the teaching of statistical methods and raising the standards of statistical literacy in public health and medicine.
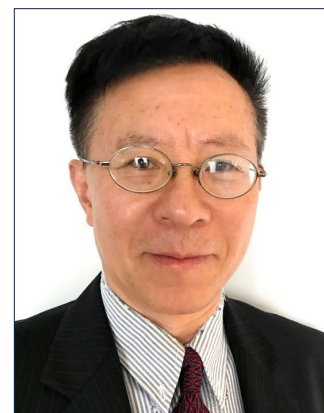
Jie Chen

Overland Pharma

For extraordinary contributions to and impact on the best practice of statistics and regulatory science; for innovative applications of statistics in medical product development and safety evaluation; and for dedicated service to the biopharmaceutical statistics profession.

Zhen Chen

National Institutes of Health

For outstanding contributions to statistical methodology in diagnostic accuracy and chemical mixtures modeling and key contributions to Bayesian statistical methods in biomedical research.

Jing Cheng

University of California, San Francisco

For outstanding contributions to causal inference and statistical methods for dental research, excellence in collaboration on public health research, outstanding mentoring of students and early-career researchers, and service to the profession.

Victor De Oliveira

The University of Texas at San Antonio

For innovative and transformative methodological research in Bayesian spatial statistics and modeling non-Gaussian spatially dependent data; for significant contributions to environmental statistics; and for success in recruiting and supporting Hispanic STEM graduate students.

ASA   IMS   COPSS

Stephanie Eckman
RTI International

For innovative contributions to survey research methodology—including groundbreaking research on measurement error, enhanced approaches to coverage, and investigations into complementary data sources—and for extensive service to the profession.

Elena A. Erosheva
University of Washington

For influential research at the interface of statistics and social sciences; for contributions to the foundations of mixed membership and latent variable models; for mentoring junior researchers; and for service to the statistical community.

### Melody S. Goodman
New York University

For outstanding contributions to the identification and reduction of health disparities and racism in public health and medicine through rigorous attention to study design, measurement, and the use of cutting-edge statistical methods and for tireless support of all students.

Amelia M. Haviland
Carnegie Mellon University

For highly impactful public policy research; for innovative development and application of statistical methodology; and for excellence in administration of statistical activities, teaching, and dissemination of statistical knowledge.
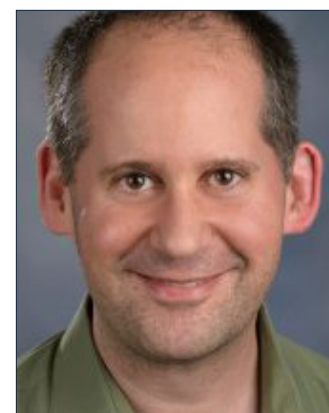
Matthew J. Hayat
Georgia State University

For transdisciplinary biostatistics research, collaborative efforts in the dissemination and application of statistical methods in the health sciences, and scientific leadership and mentorship in the field of statistics education.

Martin Ho
FDA Center for Biologics Evaluation and Research

For excellence in using statistics to quantify patient preferences for design and analysis of clinical trials to regulate medical products; for outstanding services to the ASA and statistical community; and for leadership to advance statistical methods in real-world evidence.

Li-Shan Huang
National Tsing Hua University, Taiwan

For influential contributions to smoothing methods; for blending creative statistical methodology with cross-disciplinary application across a variety of fields; for mentoring of graduate students; and for service to the profession.

Kathryn Mary Irvine
US Geological Survey

For groundbreaking statistical methods for ordinal plant cover and bat acoustic surveys, leadership developing the North American Bat Monitoring Program, impactful guidance to natural resource monitoring practitioners, and substantial ASA service.

ASA IMS COPSS

Mikyoung Jun
University of Houston

For path-breaking contributions to statistical modeling on spheres, innovative statistical applications to a broad range of environmental problems, service to the profession, and excellence in teaching and mentoring.

Jian Kang
University of Michigan

For novel contributions to imaging statistics, Bayesian methods, high-dimensional feature selection, network models, and complex spatial data analysis and for significant multidisciplinary collaborations in neuroimaging, bioinformatics, and epidemiology.

Stanislav Kolenikov
Abt Associates

For sustained contributions to methods, practices, and computational tools of survey methodology; for leadership on projects essential to data-driven policymaking; and for service to the profession and its relation to the social sciences.

Earl C. Lawrence
Los Alamos National Laboratory

For innovative methodological development; for promotion of statistical methods in high-consequence challenges in science and national security; and for outstanding service to the statistical profession and mentorship of the next generation of statisticians.

Yan Li
University of Maryland

For excellent research in developing statistical methods for efficient design and analysis of complex samples in public health and for outstanding service to the survey research community.

Fang Liu
University of Notre Dame

For novel contributions to differentially private synthetic data and Bayesian modeling; for outstanding interdisciplinary research in clinical and public health studies; for leadership in education and training; and for service to the profession.
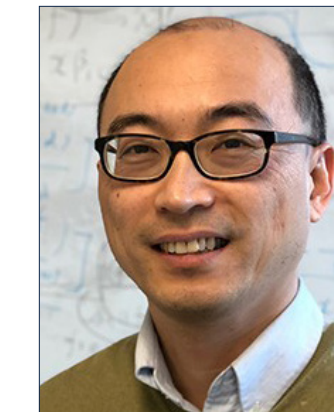
Bo Lu
The Ohio State University

For striking methodological contributions, especially to causal inference; for impactful applied work to improve health outcomes; for dedicated mentoring of students and postdoctoral researchers; and for exemplary leadership in the profession.

Pamela D. McGovern
USDA National Agricultural Statistics Service

For seminal contributions to statistical standards and quality management of federal statistics and for professional service to the ASA and wider statistical community.

ASA IMS COPSS

Weiwen Miao
Haverford College

For notable contributions to statistical education and the application of statistical methodology in the law, especially in the area of employment discrimination, which increases opportunities available to current and future generations, and for service to the profession.

David Ian Ohlssen
Novartis Pharmaceuticals

For outstanding development of innovative clinical trial methods; for advancing the role of statistical and data sciences in the pharmaceutical industry, including exceptional academia-industry partnerships; and for excellence in mentorship of young statisticians.

Steve Pierson
American Statistical Association

For notable service to the statistics profession by elevating the profile of statistics in policymaking, advocating for the profession, and championing the federal statistical agencies.

Sowmya R. Rao
Boston University School of Public Health

For effective survey designs and analyses that enhanced health in vulnerable populations worldwide and for service to the profession.

Jasjeet S. Sekhon
Yale University

For outstanding contributions to applied statistics, statistical software, and the use of statistics in the social sciences and public and private research organizations, including those transforming election campaigns.

Kimberly F. Sellers
Georgetown University

For excellence in dispersed count data methodology; impactful collaborations with the US Census Bureau; and exemplary leadership in increasing justice, equity, diversity, and inclusion in the statistics and broader mathematical sciences communities.

Ramalingam Shanmugam
Texas State University

For breakthrough diagnostic method with borderline patients; for pioneering seminal probability models and creative algorithms for non-central distributions; and for originality of Shanmugam's numbers, exemplary consulting, and innovative creation of programs.

Russell Shinohara
University of Pennsylvania

For the development and application of innovative statistical methods for the analysis of biomedical imaging data; for scientific leadership in large neuroimaging studies; for mentorship of junior biostatisticians; and for service to the profession.

ASA IMS COPSS

Rui Song
North Carolina State University

For outstanding contributions to statistical methodology in precision medicine and high-dimensional statistical and reinforcement learning; for mentoring of women and junior researchers; and for excellent research and collaboration using machine learning methods in the tech industry.

Lisa M. Sullivan
Boston University School of Public Health

For outstanding contributions and strong leadership in statistical education and collaborative research in cardiovascular disease and clinical trials and for exceptional service in training the next generation of biostatisticians and public health practitioners.

Eric Alan Vance
LISA, University of Colorado-Boulder

For remarkable contributions to the worldwide statistical collaboration community through the establishment of LISA 2020; for developing tools to educate the next generation of collaborative statisticians; and for distinguished service to the profession.

Olga Vitek
Northeastern University

For outstanding contributions of statistical methodology and open-source software to the bioinformatics and proteomics research communities; for furthering statistics education among experimental scientists; and for service to the profession.

Lily Wang
Iowa State University

For fundamental research contributions to spatial, survey, image, and functional data analysis using nonparametric and semiparametric methods; for outstanding mentoring and service to the profession; and for effective collaborations with government agencies.

Xiao Wang
Purdue University

For outstanding contributions to statistical methodology and theory on machine learning, functional data analysis, and nonparametric statistics; for exceptional service to the profession; and for excellence in student mentoring.

Xiaofei Wang
Duke University Medical Center

For original methodology development in clinical trials, biomarker validation, and comparative effectiveness research; for impactful collaboration in oncology; for dedication to the dissemination of statistical knowledge; and for outstanding service to the profession.

Mark Daniel Ward
Purdue University

For leadership in the integration of data science principles and innovative experiential opportunities for undergraduates; for supporting the growth of diversity and accessibility in the profession; and for scholarly contributions in probability.

ASA IMS COPSS

James G. Wendelberger

Los Alamos National Laboratory

For sustained impact on statistical applications in business, industry, and government; dissemination of statistical knowledge to diverse audiences; and service to the American Statistical Association as a leader of multiple sections and chapters.

Hongquan Xu

University of California, Los Angeles

For novel contributions to research and applications of experimental design; for computer experiments, particularly to nonregular fractional factorial designs and space-filling designs; for excellence in student mentoring; and for service to the profession.

Hongmei Zhang

University of Memphis

For outstanding service and leadership in biostatistics education; for extensive collaborative efforts in epidemiological and medical research; and for notable contributions to variable selection and clustering methods and practice.
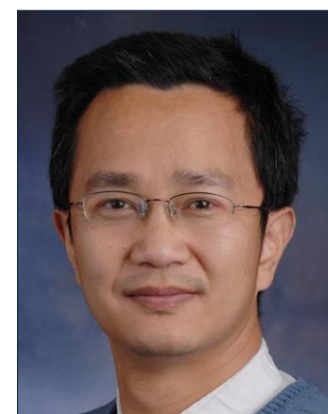
Yichuan Zhao

Georgia State University

For contributions in the areas of survival analysis, nonparametric statistics, and empirical likelihood-based methods; for applications in biomedical research; and for service to the profession, including organizing conferences, editorial service, and mentoring graduate students.
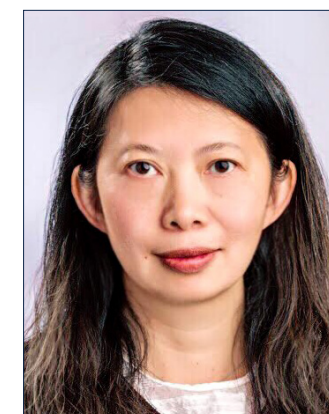
Yingye Zheng

Fred Hutchinson Cancer Research Center

For novel methodological development for efficient design and analysis of prognostic biomarker validation study; for significant advancement in dynamic risk prediction with longitudinal biomarkers; and for outstanding collaboration in cancer screening and cancer biomarker research.

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Founders
American Statistical Association
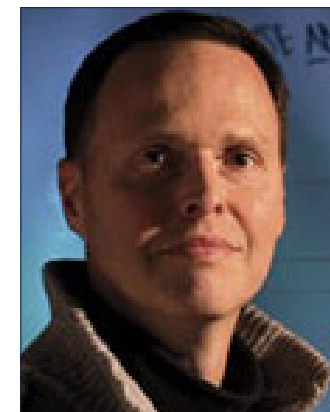
Scott Evans
The George Washington University

For years of service to the ASA, including as president of the Boston Chapter; co-founder of the New England Symposium on Statistics in Sports; chair of the Section on Teaching of Statistics in the Health Sciences, Section on Medical Devices and Diagnostics, and Statistics in Sports Section; chair of the Young Investigator Award Committee and Distinguished Achievement Award Committee; member of the ASA Task Force on *P*-Values and Statistical Significance and the COVID-19 Task Force; advisory editor of *Statistics in Biopharmaceutical Research* and executive editor of *CHANCE*; and member of the ASA Board of Directors.
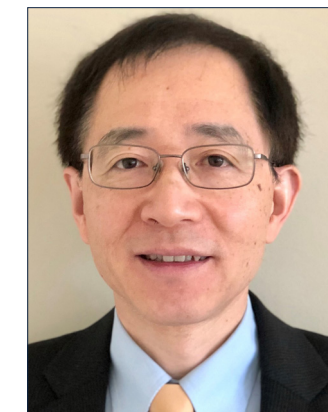
Xuming He
University of Michigan

For leadership in statistics and service to statistical communities at the national and international levels; for service on the Noether Awards Committee, ASA Committee on Scientific Freedom and Human Rights, ASA Committee on Federally Funded Research, and the Search Committee for the ASA Executive Director; for leadership as chair of the ASA Committee on Meetings for five years, program chair of the Joint Statistical Meetings, and chair of the Nonparametric Statistics Section; and for editorial leadership as co-editor of *JASA* Theory & Methods.

Kathy Monti
Rho, Inc. (retired)

For leadership, service, and dedication to the American Statistical Association over three decades; for guiding ASA chapters in the New England region, where she promoted the profession at all levels; for service on and leadership of various committees, including the ASA Committee on Law and Justice, Advisory Committee on Continuing Education, and ASA Fellows Committee; for serving in several leadership roles in the Biopharmaceutical Section; for two terms of service on the ASA Board of Directors; and for tireless efforts on behalf of the association, which had a significant impact and will continue to resonate in the future.

ASA IMS COPSS

Mentoring Award

Wayne Fuller

Iowa State University

For his deep understanding of the relationship between technical work in statistics and the development of individual career paths; for providing an ideal model of mentorship for students and junior colleagues; and for his generosity of spirit and sustained dedication to his students and colleagues.
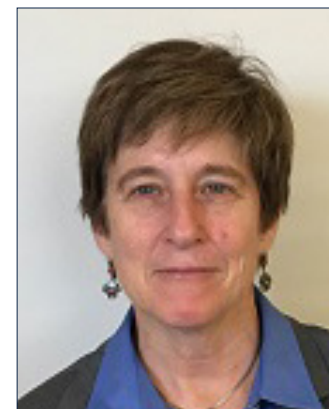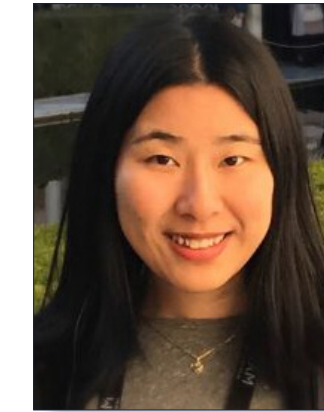

Linda Young

USDA NASS

For her constant and continuing efforts mentoring both students and staff; for sharing her technical and leadership skills; and for encouraging her mentees to be tenacious and continue to improve as statisticians, researchers, and leaders in the field of statistics.

Outstanding Statistical Application Award

Qian Guan

Merck & Co., Inc.

Brian J. Reich

North Carolina State University

Eric B. Laber

North Carolina State University

Dipankar Bandyopadhyay

Virginia Commonwealth University

For their paper, "Bayesian Nonparametric Policy Search with Application to Periodontal Recall Intervals"

ASA IMS COPSS

Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society

Michael H. Kutner

Emory University

For his longstanding commitment to the betterment of society through the application of statistical methods within biomedical research, particularly in the area of clinical trials; for the development and dissemination of statistical training for students and researchers across international and interdisciplinary boundaries; and for the support and mentoring of the next generation of statistical researchers and collaborators.

Monroe G. Sirken Award in Interdisciplinary Survey Methods Research
(2020–2021 presented at AAPOR)

Edith de Leeuw

University of California, Los Angeles

For exemplary interdisciplinary contributions to survey research that illuminate the relationship between data quality and data collection methods, enhance understanding of the causes and consequences of nonresponse, and advance cross-cultural and cross-national measurement.

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Statistical Partnerships Among Academe, Industry, and Government (SPAIG) Award

Roni Rosenfeld
Carnegie Mellon University

Ryan Tibshirani
Carnegie Mellon University

Carrie Reed
CDC

Matt Biggerstaff
CDC

Michael Johansson
CDC

Paul Nielson
Optum Technology

John Santelli
UnitedHealth Group

Hal Varian
Google

Brett Slatkin
Google

Curtiss Cobb
Facebook

Tim Suther
Change Healthcare

John Tamerius
Quidel

Chris Sweeney
Dana-Farber Cancer Institute

Meredith Regan
Dana-Farber Cancer Institute

Marc Buyse
International Drug Development Institute

Susan Halabi
Duke University

Wanling Xie
Dana-Farber Cancer Institute

Catherine Tangen
Fred Hutchinson Cancer Research Center

James Dignam
The University of Chicago

Laurence Collette
International Drug Development Institute

Matt Sydes
University College London

Max Parmer
University College London

Jayne Tierney
University College London

Boris Freidlin
National Cancer Institute

DELPHI
For commitment to the theory and practice of epidemic tracking and forecasting through building and modeling unique public health data streams.

ICECaP
For building a statistically sound and solid foundation for identifying surrogate endpoints and collaborating with academic, industry, and government.

Waller Awards

Waller Distinguished Teaching Career Award

Larry Lesser
The University of Texas at El Paso
In recognition of his extensive and ingenious contributions to statistical education benefiting teachers, students, and the public, including pedagogical research, development of fun and engaging classroom activities designed to enhance student success, media outreach, and focus on social justice in mathematics education.

Waller Education Award

Amelia McNamara
University of St. Thomas
In recognition of her wide-ranging innovations in statistical education, including contributions to data journalism, integration of data science into the curriculum at many levels, outreach through social media, service to the statistics education community, and commitment to diversity in STEM.

ASA   IMS   COPSS

Samuel S. Wilks Memorial Award

Sallie Keller
University of Virginia

For transdisciplinary collaborations to address complex societal problems; for research to advance data science for the public good; and for innovations in experiential education to create a dynamic, data-enabled workforce.

W. J. Youden Award in Interlaboratory Testing

Jian Zhao
University of Maryland

Thomas Mathew
University of Maryland

Ionut Bebu
The George Washington University

For their paper, "Accurate Confidence Intervals for Interlaboratory Calibration and Common Mean Estimation"

Special *Lectures*

ASA President's Address

Robert Santos
Urban Institute
Thoughts on the Role of 'Self' in a Statistics Career

Deming Lecturer Award

Ivan Chan
Bristol Myers Squibb
Deming Spirit in Action:
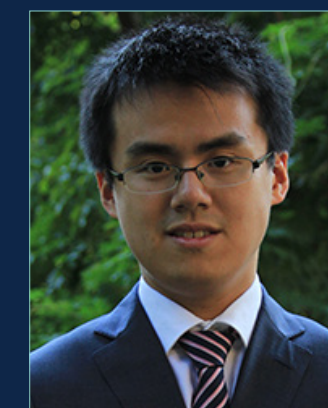Quality, Statistics, and Innovation in Vaccine Development

Gottfried E. Noether Awards

Noether Senior Scholar Award

Regina Liu
Rutgers University

Noether Young Scholar Award

Anru Zhang
Duke University

President's Invited Speaker

Vivienne Ming
Socos Labs
Messy Human Problems

ASA Award for
Outstanding Chapter Service

Tammy Tom
Hawai`i Chapter

For longstanding contributions to the State of Hawai`i and the University of Hawai`i System communities by providing regular educational visits.

Rebecca Lynn Taylor
Alaska Chapter

For dedicated service and counsel to the Alaska Chapter of the American Statistical Association as an avid member and officer, thereby enhancing the knowledge and network of colleagues.

Robert A. Oster
Alabama-Mississippi Chapter

For outstanding service to the Alabama-Mississippi Chapter of the ASA.

Li Zhang
San Francisco Bay Area Chapter

For outstanding service and leadership to the San Francisco Bay Area Chapter of the American Statistical Association.

Katherine Grzesik
Rochester Chapter

For consistently providing outstanding service to the Rochester Chapter in her capacity as secretary but also in manifold other ways.

Harold Dyck
Orange County Long Beach Chapter

For the many years of dedicated support and outstanding service to the Orange County Long Beach Chapter.

Megan Dailey Higgs
Montana Chapter

For continued service and inspiration to the Montana Chapter of the ASA throughout many years as a chapter member and officer.

ASA Award for
Outstanding Section Service

Naihua Duan
Mental Health Statistics Section

For outstanding leadership to initiate the Mental Health Statistics Section and for continued service to grow the section over the past eight years.

Timothy D. Johnson
Section on Statistics in Imaging

For founding the Statistics in Imaging Section and many years of dedicated service to promote the imaging field and support young researchers in their careers.

Amy Nowacki
Section on Teaching of Statistics in the Health Sciences

For generous contributions of time and talent to the section through ongoing service as program chair, section chair with initiation of the ASA Fellows nomination team, and TSHS Resources Portal founding board member and resource contributor.

Gene Pennello
Section on Medical Devices and Diagnostics

In recognition of dedicated leadership of the Section on Medical Devices and Diagnostics, serving as 2015 program chair and 2016 section chair.

ASA IMS COPSS

Section, Chapter, Committee, *and* Other *Awards*

Section on Bayesian Statistical Science

Student Paper Award

Niloy Biswas, *Harvard University*

Marta Catalano, *Universita' Bocconi*

Debangan Dey, *The Johns Hopkins University*

Gabriel Hessler, *University of California, Los Angeles*

Sirio Legramanti, *Universita' Bocconi*

Yi Liu, *The University of Chicago*

Giorgio Paulon, *The University of Texas at Austin*

Anna Yanchenko, *Duke University*

Haoxuan Wu, *Cornell University*

Xiaotian Zheng, *University of California, Santa Cruz*

Biometrics Section and Mental Health Statistics Section

Annie T. Randall Award

Loni Tabb, *Drexel University*

Biopharmaceutical Section

Contributed Poster Award

1st Place: Ran Liao, *Eli Lilly*; Sujatro Chakladar, *Eli Lilly*; and Margaret Gamalo, *Eli Lilly*

2nd Place: Xuanxuan Yu, *University of South Carolina*; Jianling Bai, *Nanjing Medical University*; Hao Yu, *Nanjing Medical University*; and Jingwei Wu, *Temple University*

3rd Place: Liwen Wu, *University of Pittsburgh*; Junyao Wang, *University of Pittsburgh*; and Abdus S. Wahed, *University of Pittsburgh*

Student Paper Award

1st Place: Tian Gu, *University of Michigan*

2nd Place: Binkgai Wang, *The John Hopkins University*

3rd Place: Sharon Ling, *University of Minnesota*

Honorable Mentions: Nathan Bean, *The University of North Carolina* and Ethan Alt, *The University of North Carolina*

Scholarship Award

Ruizhe Chen, *University of Illinois at Chicago*

Michael Daniel Lucagbo, *University of Maryland Baltimore County*

Siddhesh Kulkarni, *University of Louisville*

Section on Business and Economic Statistics

Student Paper Award

Grace Deng, *Cornell University*

Chunshan Liu, *Rice University*

Yiyun Luo, *The University of North Carolina at Chapel Hill*

Matt Stuart, *Iowa State University*

2021 Zellner Award

Andrei Zeleneev

Princeton University thesis: ''Essays in Econometrics of Networks and Models with Errors-in-Variables''

Honorable Mentions

Jonathan Daniel Roth

Harvard University thesis: ''Essays in Robust Inference''

Junlong Feng

Columbia University thesis: ''Essays in Econometrics''

Section on Statistical Computing

John M. Chambers Statistical Software Award

Simon P. Couch, *Reed College*

Section on Statistical Computing and Section on Statistical Graphics

Statistical Computing and Graphics Award

Howard Wainer, *National Board of Medical Examiners (retired)*

Student Paper Award

Gaurav Agarwal, *King Abdullah University of Science and Technology*

Jiaxin Hu, *University of Wisconsin-Madison*

Nathan Osborne, *Rice University*

Yifan Zhu, *Iowa State University*

Section on Statistical Consulting

Mentoring Award

Julia L. Sharp, *Colorado State University*

Best Topic-Contributed Session Award

Nayak L. Polissar, *The Mountain-Whisper-Light: Statistics & Data Science*

Section on Defense and National Security

Distinguished Achievement Award

Janet Myhre, *Claremont McKenna College (retired)*

Scott Vander Weil, *Los Alamos National Laboratory*

Student Paper Award

Yuzhou Chen, *Southern Methodist University*

Section on Statistics and the Environment

Student Paper Award

Saumya Bhatnagar, *University of Cincinnati*

Jingjie Zhang, *Texas A&M University*

Honorable Mentions: Lauren Hoskovec, *Colorado State University*; Jun Tang, *University of Iowa*; and Christopher Geoga, *Rutgers*

Early Investigator Award

Abhirup Datta, *The Johns Hopkins University*

Jonathan Hobbs, *Jet Propulsion Laboratory*

Erin Schliep, *University of Missouri*

Section on Statistics in Genomics and Genetics

Distinguished Student Paper Award

Zhenxing Guo, *Emory University*

Jian Hu, *University of Pennsylvania*

Amanda Brucker, *North Carolina State University*

Yujie Jiang, *Rice University*

Government Statistics Section

Wray Jackson Smith Scholarship Award

Leanna Moron, *University of Wisconsin-Madison*

Government Statistics Section, Social Statistics Section, and Washington Statistical Society

Roger Herriot Award

The Internal Revenue Service's Statistics of Income Division

Team members: Victoria L. Bryant, John L. Guyton, Patrick Langetieg, Alicia M. Miller, Kevin K. Pierce, Alexander H. Turk, Michael E. Weber, Melanie Kathleen Patrick, Shannon Leigh Dickerson, and Barry W. Johnson Jr.

Health Policy Statistics Section

Student Paper Award

Kaitlyn Cook, *Harvard University*

Yige Li, *Harvard University*

Ernesto Ullao, *University of Washington*

Yizhe Xu, *University of Utah*

Bo Zhang, *University of Pennsylvania*

Section on Statistics in Imaging

JSM Student Paper Award

Yingtian Hu, *Emory University*

Erin McDonnell, *Columbia University*

Geoffrey Thompson, *Iowa State University*

Honorable Mentions: Joshua Lukemire, *Emory University,* and Sarah Weinstein, *University of Pennsylvania*

Statistical Methods in Imaging Conference Student Paper Award

Andrew Dilernia, *University of Minnesota*

Bingkai Wang, *The Johns Hopkins University*

Qiong Wu, *University of Maryland*

Section on Statistical Learning and Data Science

Student Paper Award

Peter Macdonald, *University of Michigan*

Rungang Han, *University of Wisconsin-Madison*

Weijing Tang, *University of Michigan*

Tudor Manole, *Carnegie Mellon University*

Sheng Zhang, *North Carolina State University*

Honorable Mentions: Stefan Stein and Xiaoqing Tan

Lifetime Data Science Section

Student Paper Award

Yue Song, *Harvard University*

Myeonggyun Lee, *New York University*

Wenbo Wu, *University of Michigan*

Theresa Devasia, *University of Michigan*

Trevor Thomson, *Simon Fraser University*

Yichen Jia, *University of Pittsburgh*

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Section on Statistics in Marketing

Best Doctoral Dissertation Award

Jeremy Yang, *Massachusetts Institute of Technology*

Finalists: **Ziwei Cong,** *HKUST;* **Olivia Natan,** *The University of Chicago;* **Prashant Rajaram,** *University of Michigan;* and **Isamar Troncoso,** *University of Southern California*

Section on Medical Devices and Diagnostics

Student Paper Award

1st Place: Ying Cui

2nd Place: Jingyi Zhang

Mental Health Statistics Section

Student Paper Award

Siyu Heng, *University of Pennsylvania*

Wei Jin, *The Johns Hopkins University*

Qinxia Wang, *Columbia University*

Section on Nonparametric Statistics

Student Paper Award

Zhaoxue Tong, *Penn State University*

Yuqian Zhang, *University of California, San Diego*

Yangfan Zhang, *University of Illinois at Urbana-Champaign*

Section on Physical and Engineering Sciences and Quality and Productivity Section

Joint Student Paper Award

Ana Maria Estrada Gomez, *Georgia Institute of Technology*

Jialei Chen, *Georgia Institute of Technology*

Nicholas Rios, *Purdue University*

Laura Wendelberger, *North Carolina State University*

Henry Shaowu Yuchi, *Georgia Institute of Technology*

Section on Risk Analysis

Student Paper Award

Nicholas Hartman, *University of Michigan*

Yuming Sun, *University of Michigan*

Survey Research Methods Section

Student Travel Award

Paul Parker, *University of Missouri*

Social Statistics Section

Student Paper Award

Eli Ben-Michael, *Harvard*

Section on Teaching of Statistics in the Health Sciences

Best Contributed Presentation Award (2020)

Sujata M. Patil, *Memorial Sloan Kettering Cancer Center*

Young Investigator Award (2020)

Stephanie Hicks, *The Johns Hopkins University*

Outstanding Teaching Award (2020)

Heather Hoffman, *The George Washington University*

Text Analysis Interest Group

Student Paper Award

Enshuo Hsu, *The University of Texas Medical Branch*

Qiuyi Wu, *University of Rochester*

Conference on Statistical Practice

John J. Bartko Scholarship Award

Mansi Shah, *Primrose Schools*

Sara Venkatraman, *Cornell University*

Lester R. Curtin Award

Melissa Jay, *University of Iowa*

Robert Anthony Tumasian III, *Columbia University*

Lingzi Lu Memorial Award

Shushu Zhang, *University of Wisconsin-Madison*

Mu Sigma Rho National Statistics Honor Society

William D. Warde Statistics Education Award

Anna Bargagliotti, *Loyola Marymount University*

Survey Methodology

Waksberg Award

Sharon Lohr, *Arizona State University*

Technometrics

Ziegel Award

Silvelyn Zwanzig, *Uppsala University*

Behrang Mahjani, *Icahn School of Medicine at Mount Sinai*

For "Computer Intensive Methods in Statistics"

Awards

Institute of Mathematical Statistics (IMS)

Harry C. Carver Medal

Tati Howell
IMS Bulletin Editor

For her outstanding service, efforts, and dedication as the assistant editor and editor of the *IMS Bulletin* during the past 20 years.

Fellows

Institute of Mathematical Statistics (IMS)

Ery Arias-Castro
University of California, San Diego

For fundamental contributions to non-parametric statistics including clustering, graphs and networks, sparse estimation, and statistical learning and for extensive editorial service.

Yuri Bakhtin
Courant Institute of Mathematical Sciences at New York University

For groundbreaking work on random dynamical systems, including stochastic PDEs.

Prabir Burman
University of California, Davis

For contributions to model selection, nonparametric estimation for independent and dependent observations, multifold cross-validation, and repeated learning-testing methods for estimation of prediction errors.

Ismaël Castillo
Sorbonne University

For path-breaking contributions to the theory of Bayesian nonparametrics and high-dimensional Bayesian inference.

2021

ASA · IMS · COPSS

Kwun Chuen Gary Chan

University of Washington

For outstanding contributions to the methodology of preferential sampling design, observational data, and complex lifetime data and for substantive leadership in the application of statistics in public health and biomedical research.

Sandrine Dudoit

University of California, Berkeley

For excellent research on the statistical foundations and implementation of statistical genomic methods with particular focus on high-throughput methods for gene expression profiling; for development of open-source statistical software for biomedical data analysis, especially her role in founding and contributing to Bioconductor, an open-source development platform; for excellent teaching and graduate and postgraduate student mentoring; and for extraordinary university leadership.
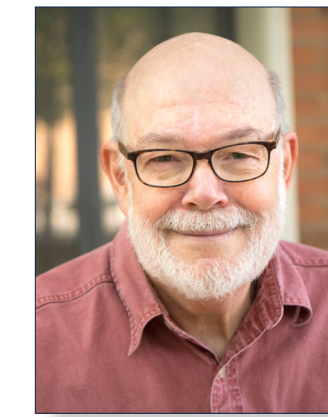
Charles J. Geyer

University of Minnesota

For fundamental contributions to Markov chain Monte Carlo methods, likelihood methods, and statistics genetics.

Alan Hammond

University of California, Berkeley

For making major advances in two of the most difficult and deepest questions of modern probability arising from central questions of statistical physics and for substantial progress on rigorous study of self-avoiding walk.

Scott H. Holan

University of Missouri

For significant research contributions to time series, spatial statistics, and spatiotemporal modeling; for applications to official statistics; and for his dedicated service to the statistics profession.
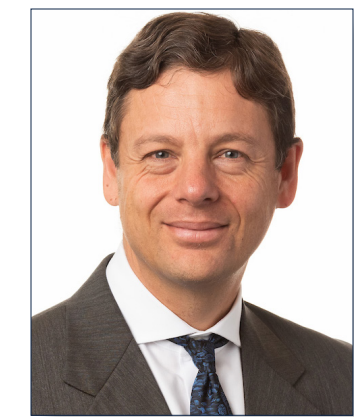
Mark Holmes

University of Melbourne

For wide-ranging and creative research in theoretical and applied probability.

Jian Huang

University of Iowa

For fundamental contributions to high-dimensional statistics, survival analysis, and statistical genetics and genomics.

Gareth James
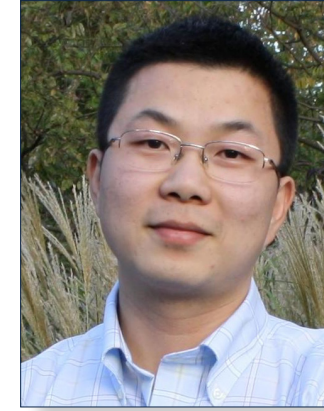
University of Southern California

For seminal contributions to functional data analysis, high-dimensional statistics, and statistical learning.

ASA IMS COPSS

Nicole Alana Lazar

The Pennsylvania State University

For significant contributions to empirical likelihood and neuroimaging analysis and for leadership to the profession.

Jing Lei

Carnegie Mellon University

For fundamental and innovative contributions to sparse principal component analysis, conformal prediction, network analysis, spectral methods, optimal transport, cross-validation, and differential privacy, as well as applied work on the analysis of tissue and single-cell RNA sequencing data and autism.

Lexin Li

University of California, Berkeley

For influential contributions to sufficient dimension reduction, tensor regression, and neuroimaging applications and for outstanding service to the profession.

Yehua Li

University of California, Riverside

For outstanding contributions to the theory and methods of functional data analysis, especially on non- and semiparametric regression methods, dimension reduction, model selection, and statistical inference on both independent and spatially dependent functional data.

Huazhen Lin

Southwestern University of Finance and Economics

For outstanding contributions to theory and methods for survival analysis and semi-parametric/nonparametric modeling; for dedicated service to the profession; and for strong leadership in statistics education and development in China.

Steven MacEachern

The Ohio State University

For fundamental and influential contributions to Bayesian statistics and inference, especially in the area of Bayesian non-parametrics; for dedicated mentoring of students and young researchers; and for service to the profession.

Marianthi Markatou

University at Buffalo

For outstanding accomplishments on fundamental research in robust statistics and for a strong commitment to the advancement of statistical science through interdisciplinary research and professional service.

Florence Merlevède

Université Gustave Eiffel, France

For outstanding contributions to the field of dependent random variables, especially for fundamental results concerning the conditional limit theorems, rates of convergence in the central limit theorem, and large random matrices.

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XuanLong Nguyen
University of Michigan

For contribution to the profession as a teacher, editor, and researcher; for contribution to the analysis of data models, both in theory and practice; and for leadership in the understanding of mixture models and hierarchical models.

Daniel J. Nordman
Iowa State University

For fundamental contributions to the theory and applications of computer-intensive non-parametric methods, including the bootstrap and empirical likelihood, for time series and spatial data.

Natesh Pillai
Harvard University

For significant contributions to Markov chain Monte Carlo methods; mixing times of Markov chains; and bridging the gap between applied probability, statistics, and computation.

Philippe Rigollet
Massachusetts Institute of Technology

For outstanding contributions to the analysis of statistical versus computational trade-offs, the theory of aggregation, and statistical optimal transport.

Johan Segers
Université catholique de Louvain

For pathbreaking work on extremes of time series and his fundamental contributions to the theory and application of copulas.

Thomas A. Severini
Northwestern University

For distinguished contributions to semi-parametric inference, asymptotic theory of likelihood inference, and Bayes/frequentist comparative inference.
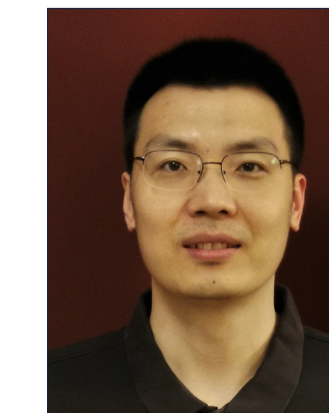
Yiyuan She
Florida State University

For novel and sustained contributions to high-dimensional and robust statistics and for excellence in mentoring, instruction, and service to the profession.

### Aleksandra (Seša) Slavković
The Pennsylvania State University

For novel contributions to the development of statistical disclosure techniques and algebraic methods; for contributions to graduate research; and for contributions to editorial and other publication activities of the IMS and other statistical organizations.

ASA IMS COPSS

Peter Xuekun Song

University of Michigan

For pathbreaking developments in likelihood inference; for outstanding contribution in medical research; and for exceptional service and mentorship.
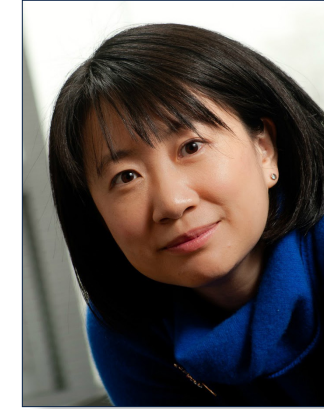
Rui Song

North Carolina State University

For significant contributions to machine learning methods, dynamic treatment regime, and efficient and nonstandard statistical inference.

Zhiqiang Tan

Rutgers University

For seminal contributions to statistical theory and practice, including Monte Carlo sampling and causal inference; for significant contributions in collaborative research; and for contributions to the profession, including via editorial and organizational efforts.

Nian-Sheng Tang

Yunnan University

For excellent research accomplishments on statistical inference with missing data and distinguished contributions to the promotion of statistics in developing regions.

Balint Virag

University of Toronto

For remarkable contributions to graph and group theory, random matrix theory, random Schrodinger operators, and Kardar-Parisi-Zhang universality.

Xiao Wang

Purdue University

For significant contributions to nonparametric statistics, shape-restricted inference, and functional data analysis and for dedicated professional service and students' mentoring.

Changbao Wu

University of Waterloo

For important and original research contributions to survey sampling theory and official statistics, especially for the development of model-calibration theory and techniques, empirical likelihood methods for complex surveys, and robust inferential procedures for analyzing nonprobability samples.

Min-ge Xie

Rutgers University

For outstanding contributions to statistical research, especially confidence distributions, fusion learning, meta-analysis, estimating equations, and statistical applications in biomedical sciences, industry, engineering, and environmental science, and for exemplary service to the profession and university.

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Guosheng Yin

The University of Hong Kong

For outstanding contributions in survival analysis, change-point detection, high-dimensional data analysis, and clinical trial methodologies and for exemplary service to the profession.

Ruben H. Zamar

University of British Columbia

For fundamental contributions in robust statistics, introducing the min-max bias estimates, cell contamination in high-dimensional data, and many other useful procedures for robust estimation in multivariate data.

Zhengjun Zhang

University of Wisconsin-Madison

For significant contributions to extreme value statistics and risk management, including tail dependence measure and nonlinear dependence measure construction and inference, max-linear competing factor models, and nonlinear time series models for high-frequency financial data, and for conscientious editorial and other services to the profession.

Wang Zhou

National University of Singapore

For significant contributions to limit theorems, empirical likelihood, random matrices, and Schramm-Loewner evolution.

Yijun Zuo

Michigan State University

For pioneering and path-breaking contributions to the area of data depth, theory, and methodology and its applications.

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Peter Gavin Hall IMS Early Career Prize
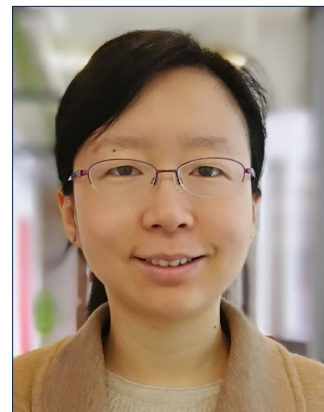
**Tracy Ke**
Harvard University

For her fundamental theoretical advancements in understanding the phase diagrams for several complex modern models, including the rare/weak signal model, and for her significant contribution in methods and theory for text modeling and network analysis.

Hannan Graduate Student Travel Awards

Joshua Agterberg
The Johns Hopkins University
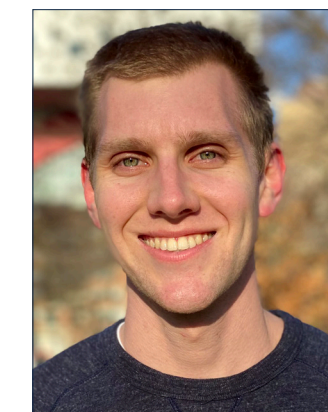
Blair Bilodeau
University of Toronto

Jacob R. Bradley
University of Edinburgh

Siyu Heng
University of Pennsylvania

Inkoo Lee
Florida State University
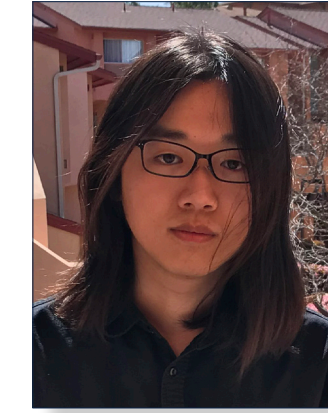
Tianyu Pan
University of California, Irvine

Konstantinos Pantazis
University of Maryland

Stefan Stein
University of Warwick

Patrick Vossler
University of Southern California
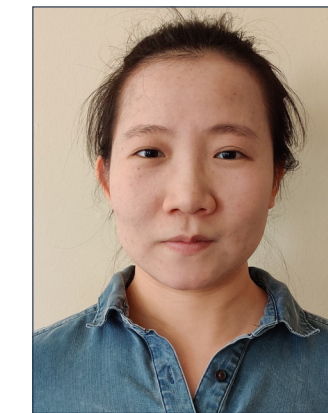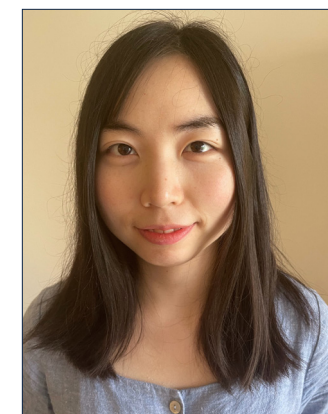
Yisha Yao
Rutgers–New Brunswick

Xiufan Yu
Penn State University

Yichi Zhang
North Carolina State University
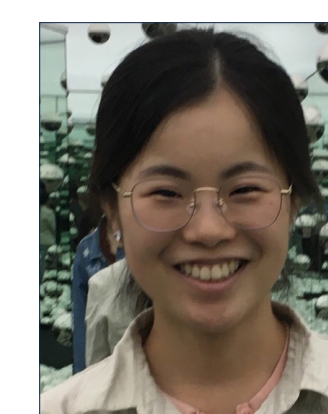
Lili Zheng
University of Wisconsin-Madison

Chen Zhong
Tsinghua University

Ying Zhou
University of Toronto

Yuchen Zhou
University of Wisconsin-Madison
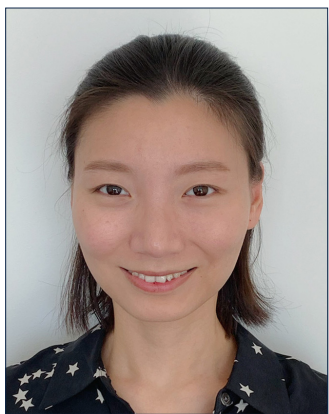
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New Researcher Travel Awards

Marta Catalano
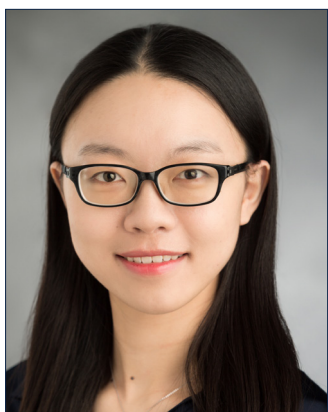*The University of Torino*

Yifan Cui
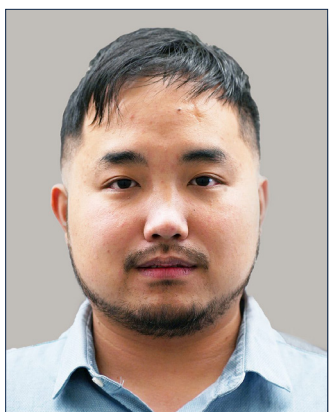*National University of Singapore*

Rui Duan
Harvard University

Lan Gao
*University of
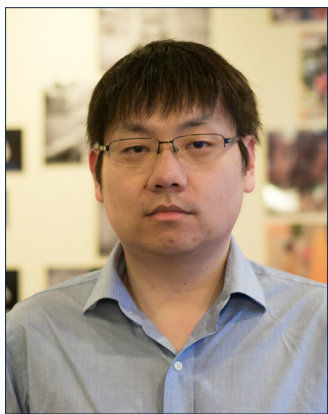Southern California*

Yuqi Gu
Duke University

Guanyu Hu
*University of
Missouri–Columbia*
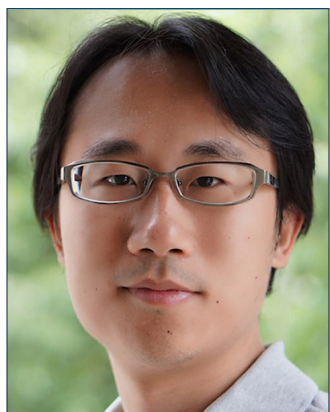

Taeho Kim
University of Haifa

Zilin Li
*Harvard T.H. Chan School of
Public Health*

**Mbanefo
Solomon Madukaife**
University of Nigeria, Nsukka

Tweedie New Researcher Award

Chao Gao
The University of Chicago

For groundbreaking contributions to robust statistics, including establishing connections with generative adversarial networks, network analysis, and high-dimensional statistical inference.

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Lawrence D. Brown
PhD Student Award Session

Xin Bing
Cornell University

Inference in Interpretable Latent Factor Regression Models

Ilmun Kim
University of Cambridge

Minimax Optimality of Permutation Tests

Yichen Zhang
New York University Stern School of Business

First-Order Newton-Type Estimator for Distributed Estimation and Inference

Special *Lectures*

IMS Presidential Address

Regina Liu
Rutgers University

Proactive and All-Encompassing Statistics

Le Cam Lecture

Jianqing Fan
Princeton University

Understanding Spectral Embedding

Medallion Lecture I

Philippe Rigollet
Massachusetts Institute of Technology

Statistical Optimal Transport

Medallion Lecture II

Robert Nowak
University of Wisconsin-Madison

What Kinds of Functions Do Neural Networks Learn?

Medallion Lecture III

Nancy Zhang
University of Pennsylvania

DNA Copy Number Profiling from Bulk Tissues to Single Cells

Medallion Lecture IV

Axel Munk
University of Göttingen

Empirical Optimal Transport: Inference, Algorithms, Applications

Wald Lectures I & II

Jennifer Chayes
University of California, Berkeley

Modeling and Estimating Large Sparse Networks

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Awards

Committee of Presidents of Statistical Societies (COPSS)

2020 Presidents' Award

Rina Foygel Barber
The University of Chicago

For fundamental contributions to statistical sparsity and selective inference in high-dimensional problems; for the creative and novel knockoff filter to cope with correlated coefficients; for contributions to compressed sensing, the jackknife, and conformal predictive inference; and for the encouragement and training of graduate and undergraduate students.

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Leadership Academy

Emma Benn
Icahn School of Medicine at Mount Sinai

For unmatched dedication to increasing diversity in the statistical sciences; for outstanding contributions to health disparities research; and for significant contributions to educating the next generation of clinical and statistical scientists.

Claire Bowen
Urban Institute

For contributions to the development and broad dissemination of statistics and data science methods and concepts, particularly in the emerging field of data privacy, and for leadership of technical initiatives, professional development activities, and educational programs.

Tamara Broderick
Massachusetts Institute of Technology

For significant contributions to Bayesian nonparametrics and machine learning.

Jeff Goldsmith
Columbia University Mailman School of Public Health

For exemplary leadership in teaching and training students in biostatistics, data science, and public health.

Stephanie Hicks
Johns Hopkins Bloomberg School of Public Health

For notable contributions to the analysis of high-throughput and single cell methods and data analysis and for significant educational, mentoring, and outreach efforts to expand and diversify the community of data scientists.

Jonas Peters
University of Copenhagen

For path-breaking contributions to statistical issues in connection with causality research; for an extraordinary active role in research dissemination; and for outstanding inspiration of junior researchers.

Aaditya Ramdas
Carnegie Mellon University

For significant contributions to sequential nonparametric inference, uncertainty quantification in machine learning, and statistical methods for reproducibility, as well as the development of an array of unique courses and tutorials, along with extensive mentorship and outreach activities.

Alisa Stephens-Shields
University of Pennsylvania Perelman School of Medicine

For exemplary leadership in interdisciplinary collaboration; for contributions to education in causal inference; and for dedicated effort to increasing the pipeline of talented students into the profession.

Lingzhou Xue
The Pennsylvania State University

For his innovative contributions to the theory and methodology of high-dimensional statistics and statistical learning and for his outstanding and prolific service to the profession and to society.

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George W. Snedecor Award

David Dunson

Duke University

For seminal and consequential advancements in the theoretical and methodological underpinnings of Bayesian modeling and inference and for significant contributions in high-dimensional statistical inference, nonparametric Bayesian modeling, and their wide-ranging applications in biomedical and natural science.

COPSS Distinguished Achievement Award and Lectureship

Wing Hung Wong

Stanford University

Understanding Human Trait Variation from the Gene Regulatory Systems Perspective

Florence Nightingale David Award

Alicia Carriquiry

Iowa State University

Statistics in the Pursuit of Justice: A More Principled Strategy to Analyze Forensic Evidence

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Gold

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