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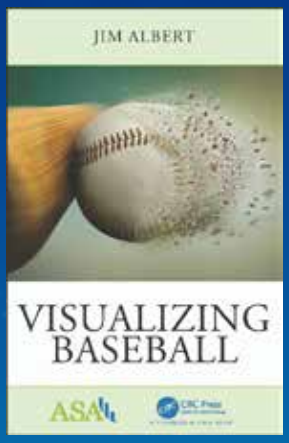

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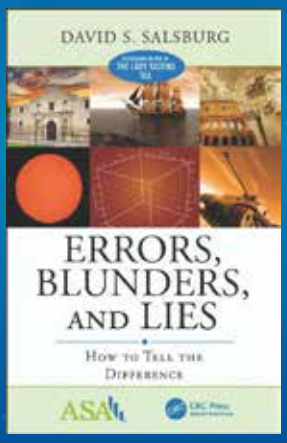

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American Statistical Association

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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The Local ASA Chapter Is My Justice League

STAT*tr@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**
The (Higher) Power of Data for Good

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.*

34 **PASTIMES OF STATISTICIANS**
What Does Steve Ascher Like to Do When He Is Not Being a Statistician?

This column focuses on what statisticians do when they are not being statisticians. If you would like to share your pastime with readers, please email Megan Murphy, *Amstat News* managing editor, at *megan@amstat.org.*

Online Articles

The following articles in this issue can be found online at *http://magazine.amstat.org*.

IN MEMORIAM Sadly, **Prodyot Kumar Bhattacharya**, **Herman Rubin**, and **Eun Sul Lee** passed away recently. To read these members' obituaries, visit *http://magazine.amstat.org*.

IN THE NEWS! In April, **Bowling Green State University recognized longtime ASA member Jim Albert** for his lifetime of contributions to his discipline and Bowling Green State University by conferring the title of distinguished university professor on him. Albert was also honored at the 2018 Faculty Excellence Awards on April 9. More can be found at the Bowling Green website: *www.bgsu.edu/news/2018/04/distinguished-university-professor.html*.

The ASA's **Chris Barker has agreed to serve as designated statistical reviewer** for a new open-access journal, the *Journal of Patient-Reported Outcomes*, which is owned by the International Society for Quality of Life Research and managed by Springer.

Having a designated statistical reviewer contributes to the consistency in the methodological standards across all papers and importantly assists the editors.

View the journal online at *www.springer.com/medicine/journal/41687*.

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You Can Count on Us

A new term entered our national vernacular last year: "alternative facts." Although its use has provided new material for the comic stage and late-night talk shows, it has caused consternation among scientists (e.g., *http://bit.ly/2wPE44b*).

JSM 2017 featured no fewer than five sessions about government statistics, including one titled "Doomed Data … When National Governments, Coerced Narratives, and Alternative Facts Override the Quality, Importance of Statistics" (see *http://bit.ly/2IN8FV6*). And earlier this year, the AAAS annual meeting featured a brainstorming session about ways to deal with or push back against alternative facts shown to be false (see *http://bit.ly/2GqYuAm*).

Even before alternative facts became a reality (pun intended), ASA Board members had an interest in determining our membership's views on official statistics and whether public confidence in them had been affected by public dialogue. We engaged Stanton Communications to conduct focus group interviews to this effect, and out of this initial data gathering grew an exciting ASA initiative: Count on Statistics.

In early May, I had the opportunity to interview Megan Berry from Stanton Communications about the initiative. Here is what she had to say:

COUNT ON STATS

Sponsored by ASA

Why did the ASA decide such a project was needed?

Berry: Amid rising concerns about public confidence in US government statistics, the American Statistical Association commissioned Stanton Communications to conduct a study to determine the feasibility of a public outreach initiative to enhance awareness of the importance, reliability, and trustworthiness of government statistics.

We conducted more than a dozen interviews with key ASA leaders, members, and subject-matter experts with a perspective on this topic. One such interviewee stated, "We do not need to determine *if* there is a problem. There is a problem. The public doesn't trust government statistics or understand where the data are coming from."

Through these candid conversations, Stanton determined the opportunities, challenges, and objectives a strategic communications program may involve. Clearly, there was a need for a program with the mission to "distinguish federal statistics as absolutely essential to the functions of our democracy." With the support of ASA leadership and the board, we created Count on Stats to do just that.

Photo by Jon Gardiner/ UNC-Chapel Hill

Lisa LaVange

Meet Erica Groshen

Former BLS Commissioner and Leadership Institute Steering Committee Member

A former director of the second-largest federal statistical agency, the Bureau of Labor Statistics (BLS), is the final member of the ASA Leadership Institute's Steering Committee to be in the President's Corner spotlight. We are privileged to have Erica Groshen, BLS commissioner from 2013–2017, advising the institute on the development of strong statistical leaders. Erica is currently a visiting senior scholar at Cornell University's School of Industrial and Labor Relations (ILR). Prior to leading the BLS, she worked in the Federal Reserve System. Throughout her career, she has maintained a focus on research, development, and outreach. As a labor economist, Erica's research taps into employer data to better understand the role of employers in the labor market and to gain insight into wage differences, rigidity, and the impact of recessions.

Regarding statistical leadership, Erica contributed one of my favorite quotes to date from the Institute's Steering Committee. When discussing the importance of leadership training for statisticians during our first meeting, she noted that, "People rise to leadership positions from different career paths, and CEOs were something else before becoming CEOs." Traditionally, she noted, these roles went to those trained in business or law, but with the increasing importance of data and analytics in all employment sectors, it is perhaps inevitable that statisticians should be tapped for these top posts and should not feel limited in pursuing them.

Regarding the Count on Statistics initiative, Erica commented that federal statistics are very much a public service and represent the baseline for methodological work seeking to improve the way data from surveys and other sources are used today. Thoughtful critiques of official statistics are valuable. Data sources and methods are evolving, and it is important that users understand the limitations of their use. But this is not the same as uninformed critiques, attacking without that understanding. Statisticians should be defending official statistics on a regular basis in their social and professional environments. Otherwise, we are missing an opportunity to defend our own work.

About the Leadership Institute, Erica noted that, "There is a role for professional associations like the ASA to help their members advance in their careers."

We are fortunate to have Erica and the other steering committee members guiding the planning and operation of the institute and look forward to their continued commitment.

What approach has the campaign taken and why?

Berry: The campaign has focused on communicating the benefits of the federal statistical system—how we, as a society, "Count on Stats." To promote this message, we work to influence the influencers, engage the user base, and amplify agency and partner communications through a variety of channels. We have engaged our key audiences—our allies, the press, members of Congress, the business community, and statistical agencies—through social media, op-eds, blogs, media interviews, press releases and statements, monthly e-newsletters, and even articles in *Amstat News*.

What has been accomplished thus far?

Berry: Our early efforts have focused on developing a social following, primarily on Twitter, responding to threats to the system (see *http://bit.ly/2INI4qH*), and building relationships with key members of the media. We have garnered direct mentions in *CQ Magazine*, *Associations Now*, and *City Lab*. ASA Executive Director Ron Wasserstein was also featured on the Consortium of Social Science Association's Why Social Science series, expressing how statistical agencies produce data essential for democracy. Last week, Count on Stats also sponsored a panel at SABEW18 (see *https://sabew.org/sabew18*) on accessing accurate government statistics and concerns about disappearing data.

What is planned for the future?

Berry: In the coming months, we will be doing more to reach out to members of the media and policymakers. This will help us proactively influence the conversation and gain a further reach. We also plan to continue emphasizing the importance of the federal statistical system by featuring a statistical agency on Twitter every week. In addition, the Count on Stats team is working to develop and host a panel featuring speakers from Congress, the press, and the federal statistical community. With this integrative approach, we hope to better educate our audiences and rebuild the public's trust in federal statistics.

Learn more about the Count on Stats initiative at *countonstats.org* or on Twitter @CountonStats.

Whether encouraging and training statisticians to fulfill their leadership potential or making sure official statistics are understood and valued, just remember—you can count on the ASA! ■

Update from the ASA Task Force on Sexual Harassment and Assault

Leslie McClure, Task Force on Sexual Harassment and Assault Chair

Over the past few years, public acknowledgement of sexual harassment/assault has emerged as a critical workplace and professional issue in need of greater attention. No social environment is immune to it. Members of associations like the American Statistical Association deserve policies that preserve the dignity of members individually and professionally. In November of 2017, the ASA Board of Directors approved the formation of the Task Force on Sexual Harassment and Assault.

The charge of the task force is as follows:

1. Assess the extent of sexual harassment/assault in the ASA community.
   - Review surveys used by other professional organizations to assess the prevalence of sexual harassment/assault.
   - Develop an ASA membership survey to assess the frequency, location, and kinds of harassment/assault occurring.
   - Distribute the survey to ASA membership.
   - Summarize the findings from the survey.
2. Review the current best practices of professional organizations and academic institutions with respect to sexual harassment/assault.
3. Consider creation of a resource that allows victims of sexual harassment and assault to anonymously receive support.
4. Make recommendations to the ASA Board of Directors regarding sexual harassment/assault policy changes for the organization.

What follows is an update on our activities since the task force was approved by the board.

During the two months following the formulation of these charges, the ASA president, in consultation with the executive director, appointed task force members with the goal of including a diverse, representative cross-section of the ASA membership. The membership of the task force can be found at *http://bit.ly/2KyP7AW*.

The task force members convened for the first time at the end of January and have met a few more times since. There are regular meetings scheduled going forward and members have begun addressing the charges above. Task force members are diverse and each brings different experiences to the table, thus enabling lively discussion with a variety of perspectives.

Following is the progress made on each of the four main charges:

Survey of Sexual Harassment/Assault in the ASA Community

We are fortunate to have experienced survey statisticians among our task force membership who drafted a plan describing options for developing and implementing a way to gather information about our membership's experiences and perceptions of sexual harassment. As we reviewed the potential paths available for this effort (e.g., formal or informal survey, census), it became clear this was an undertaking larger than could be handled by the task force. The ASA has thus graciously agreed to fund a membership survey and has put out a request for proposals (RFP) to external organizations.

The chosen organization will contact all ASA members and give them an opportunity to answer a set of questions related to their

experiences and perceptions of sexual harassment. The responses will not constitute a probability sample, but will provide valuable information about the severity of these issues among our membership.

In addition to the obvious benefits of allowing professionals to manage this effort, it also allows the data to "live" outside of the ASA, which is important given the sensitive nature of the data collection.

The RFP was developed by the ASA staff and has been reviewed and revised by the task force. It was made publicly available on April 25, 2018.

Early in our discussions, we reached out to colleagues at the American Political Science Association (APSA), which recently published the results of its survey on sexual misconduct in their discipline (*www.apsanet.org/divresources/sexualharassment*). We received important and useful feedback from their executive director that helped guide some of our discussions about our approach.

Review of Best Practices

We have been assembling information from other professional organizations regarding their policies on sexual assault and harassment, both for meetings and professional conduct. In this vein, we included a request for input (*http://bit.ly/2Gq8FVz*) from ASA members in the April 18 member e-newsletter.

Resource for Anonymous Reporting

We have not yet directly addressed the development of a mechanism for anonymous reporting of incidents of sexual assault and harassment; however, for most of our discussions, reporting is an issue we have touched on. As we move forward with developing policy recommendations, discussions of a reporting mechanism will be the next step.

Policy Recommendations to the ASA Board

With respect to policy recommendations to the ASA Board, we have started the process of examining the current meeting conduct policy (*http://bit.ly/2GrCu8s*) and are brainstorming ways to improve the policy and the means by which it is communicated to the ASA membership. This has led to discussions about policy for meeting conduct vs. policy for professional conduct. In addition, we have had much discussion about psychological, confidentiality, legal, and reporting issues that may arise through implementation of such policies, thus resulting in recommendations that the ASA employ an ombudsperson for the Joint Statistical Meetings. This would allow reporting to occur in a confidential manner and to someone who has training in the psychological and legal actions necessary in these situations.

In addition to the topics described above, we have talked about how to engage the ASA community more broadly in our efforts. We have therefore reached out to the Committee on Women in Statistics, Committee on Professional Ethics, and Committee on Membership Retention and Recruitment to ensure we align our efforts. We are particularly interested in working with the Committee on Professional Ethics to ensure we address the professional conduct aspects of sexual misconduct. In addition, as described above, we have solicited input from the ASA membership regarding best practices for an inclusive meeting/organization and plan to solicit input on our draft policy recommendations.

We have made a decision to be proactive, rather than reactive, and to think about the long-term goals of our recommendations. It is our hope that the recommendations we make are approved by the ASA and make an impact on the health and happiness of our organization.

The ASA Task Force on Sexual Harassment and Assault welcomes your input. Visit *bit.ly/ASATaskForceContactUs* to provide feedback. ■

Recognizing the ASA's Longtime Members

The American Statistical Association would like to thank its longtime members by continuing its tradition of honoring those who joined the association 35 or more years ago. This year, we recognize the members here for their distinguished and faithful membership.

If you are a longtime member and will be attending the Joint Statistical Meetings in Vancouver, British Columbia, Canada, please join us for a reception in your honor. If your name is not below and you believe it should be, contact Amy Farris at *amy@amstat.org* to correct your record.

Following this list is a Q&A with a few of our longtime members—find out why they have remained members of the ASA for so long.

50+ Years

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William H. Williams
Othmar W. Winkler
Robert L. Winkler
John J. Wiorkowski
John E. Witcher
Janet Wittes
Douglas A. Wolfe
John Harmon Wolfe
Robert F. Woolson
Gooloo S. Wunderlich
Morty Yalovsky
Donald E. Young
Douglas A. Zahn
Ann Graham Zauber
Calvin Zippin

45–49 Years

Judith Abrams
Lee R. Abramson
Chris Adcock
Frances J. Adox
Robert A. Agnew
Alan Agresti
Per A. T. Akersten
Arthur E. Albert
Mir Masoom Ali
Mukhtar M. Ali
Francis B. Alt
Stan Altan
Alfred Jerry Anderson
Dallas W. Anderson
Robert L. Andrews
Lawrence Annable
W. Tad Archambault Jr.
Jesse C. Arnold
Ersen Arseven
Taka Ashikaga
Corwin L. Atwood
Agustin F. Ayuso
Abdolrahman Azari
Vincent P. Barabba
William A. Barnett
Charles K. Bayne
Richard A. Becker
Richard J. Beckman
Mary S. Beersman
Timothy M. Bergquist
Kenneth N. Berk
Wayne F. Bialas
Lynne Billard
David S. Birkes
Lennart Bodin
Robert J. Boik
Gordon J. Brackstone
Ellen F. Brewer
Richard K. Burdick
John A. Burkart
Patricia L. Busk
Lawrence S. Cahoon
William L. Carlson
Margaret D. Carroll
Raymond J. Carroll
Walter H. Carter Jr.
Raj S. Chhikara
Joan Sander Chmiel
William S. Cleveland
James J. Colaianne
John R. Collins
Kimon J. E. Constas
Margaret D. Copenhaver
Robert J. Costello
Brenda G. Cox
Giles L. Crane
John R. Crigler
Robert D. Curley
Gary R. Cutter
Gerard E. Dallal
Robert L. Davis
Enrique de Alba
David L. DeMets
Susan J. Devlin
Thomas F. Devlin
Jay L. Devore
Paula H. Diehr
W. Erwin Diewert
Dennis A. DuBose
Joseph W. Duncan
Brenda Kay Edwards
Janet D. Elashoff
Eugene P. Ericksen
James W. Evans
Milton C. Fan
Thomas B. Farver
Alan Fask
Robert E. Fay
Martin Feuerman
Alan C. Fisher
Nicholas I. Fisher
Andrew J. Flatt
Nancy Flournoy
Mary A. Foulkes
Martin D. Fraser
Daniel H. Freeman Jr.
David Frontz
Mark C. Fulcomer
Mitchell H. Gail
Edward J. Gainer
Stephen J. Ganocy
Daniel J. Gans
Turkan K. Gardenier
Alan E. Gelfand
David E. Giles
Edward J. Gilroy
Phyllis A. Gimotty
Howard Seth Gitlow
Dennis R. Givens
John R. Gleason
Prem K. Goel
Robert N. Goldman
J. Douglas Gordon
Louis Gordon
Bernard S. Gorman
David M. Grether
William E. Griffiths
Joseph A. Guarnieri
Victor M. Guerrero
Shelby J. Haberman
Hermann Habermann
Timothy O. Haifley
James L. Hall
Nancy R. Hall
R. Choudary Hanumara
Frank E. Harrell Jr.
Robert M. Hauser
Richard M. Heiberger
Lance K. Heilbrun
Karl W. Heiner
Eugene R. Heyman
James J. Higgins
Klaus Hinkelmann
David C. Hoaglin
Theodore R. Holford
David W. Hosmer Jr.
David C. Howell
Ina P. Howell
Mark Hudes
Huynh Huynh
Dar-Shong Hwang
Ronald L. Iman
Peter B. Imrey
Allen E. Izu
William E. Jackson III
Sreenivasa Rao Jammalamadaka
David Jaspen
Clifford L. Johnson
Dallas E. Johnson
Paul K. Jones
David C. Jordan
Henry D. Kahn
John H. Kalbfleisch
John D. Kalbfleisch
William D. Kalsbeek
Howard S. Kaplon
Joseph D. Kasile
Daniel Kasprzyk
Robert M. Katz
Myron J. Katzoff
Sheryl F. Kelsey
James L. Kenkel
David L. Kimble
Ignatius A. Kinsella
Roger E. Kirk
Nancy J. Kirkendall
Rudolf G. Kittlitz Jr.
Neal Koss
Helena C. Kraemer
S. David Kriska
Robert Kushler
John M. Lachin III
Lynn Roy LaMotte
Carol J. Lancaster
Kenneth D. Lawrence
Sheila M. Lawrence
Stanley A. Lemeshow
Russell V. Lenth
Donald Lewin
Charles Lewis
David L. Libby
Gary L. Liberson
Greta M. Ljung
Michael T. Longnecker
Thomas A. Louis
George W. Lynch
Bruce E. Mackey
Dennis R. Mar

Mary A. Marion
Donald L. Marx
Robert L. Mason
Takashi Matsui
George P. McCabe
James B. McDonald
Joseph W. McKean
John D. McKenzie Jr.
Glen D. Meeden
Jeff B. Meeker
Robert J. Meier
Gayle T. Meltesen
Roy Mendelssohn
Mary-Jane Mietlowski
John A. Miller
Satish Chandra Misra
John Francis Monahan
Douglas C. Montgomery
Roderick Montgomery
Katherine L. Monti
David S. Moore
John K. Moore
David R. Morganstein
Robb J. Muirhead
Henry D. Muse
Wayne L. Myers
Subhash C. Narula
Elliott Nebenzahl
James W. Neill
H. Joseph Newton
Earl Nordbrock
Julia A. Norton
Marija J. Norusis
Bernard V. O'Neill Jr.
Morris Olitsky
Leonard Oppenheimer
Joyce Orsini
Albert C. Ovedovitz
Willis L. Owen
Maurice E. B. Owens III
William J. Padgett
Leonard J. Parsons
Raymond C. Peck
Peter H. Peskun
A. John Petkau
Charles G. Pfeifer
Philip J. Pichotta
Dale J. Poirier
Stephen L. Portnoy
Kevin Price
Thomas W. Pullum
Alfred W. Rademaker
Calyampudi R. Rao
Rose M. Ray
William J. Raynor Jr.
Benjamin Reiser
Kenneth J. Resser
Jeffrey A. Robinson
Robert N. Rodriguez
John E. Rolph
James L. Rosenberger
Bernard Rosner
N. Phillip Ross
Donald B. Rubin
Barbara J. Rutledge
Julia Sabella
Francisco J. Samaniego
Allan R. Sampson
Douglas A. Samuelson
Thomas J. Santner
Nancy K. Schatz
James J. Schlesselman
Joyce A. Schlieter
Josef Schmee
James Schmeidler
Friedrich W. Scholz
Eugene F. Schuster
Neil C. Schwertman
Stuart Scott
Joseph Sedransk
Subrata K. Sen
Jayaram Sethuraman
Glenn R. Shafer
Juliet Popper Shaffer
Paul Shaman
Robert H. Shumway
Walter Sloboda
Robert D. Small
Martyn R. Smith
Murray H. Smith
William A. Sollecito
Randall K. Spoeri
M. K. Srirama
Robert R. Starbuck
Allan Stewart-Oaten
Robert L. Stout
Donna F. Stroup
Perla Subbaiah
Moon W. Suh
Richard A. Sundheim
Ajit C. Tamhane
Ronald A. Thisted
Hoben Thomas
John M. Thomas
Carol B. Thompson
Robert D. Tortora
Ram C. Tripathi
Alan R. Tupek
Bruce W. Turnbull
David L. Turner
Neil R. Ullman
Richard L. Valliant
Gerald van Belle
Joseph G. Van Matre
Lonnie C. Vance
Kerstin Vannman
Niels H. Veldhuijzen
Paul F. Velleman
Hrishikesh D. Vinod
R. Lakshmi Vishnuvajjala
Kenneth W. Wachter
Howard Wainer
Joseph J. Walker
Sylvan Wallenstein
Stephen D. Walter
Chao Wang
George H. Wang
James F. Ward
Stanley Wasserman
William E. Wecker
William W. S. Wei
Lynn Weidman
Sanford Weisberg
K. Laurence Weldon
Jon August Wellner
Roy E. Welsch
Fredrick S. Whaley
James P. Whipple
Owen Whitby
David G. Whitmore
Howard L. Wiener
William J. Wilson
Marvin Yablon
Eric R. Ziegel
Stuart O. Zimmerman

Longtime members

40–44 Years

Robert D. Abbott
Sandra C. Abbott
John M. Abowd
Bovas Abraham
Mohammad Ahsanullah
James H. Albert
Robert W. Aldred
Rich Allen
Wendy L. Alvey
Clifford W. Angstman
Vincent C. Arena
Steve Ascher
Arlene S. Ash
Anthony C. Atkinson
Steven P. Bailey
Stephen P. Baker
Saad T. Bakir
James A. Baldwin
Eileen J. Beachell
Jay H. Beder
Steven Belle
Robert B. Bendel
James O. Berger
Roger L. Berger
James S. Bergum
Catherine S. Berkey
Nancy Berman
Jose Miguel Bernardo
Ernst R. Berndt
David J. Bernklau
Charles C. Berry
Paul P. Biemer
Robert H. Bigelow
Thomas E. Billings
Richard A. Bilonick
Herbert L. Bishop Jr.
Richard M. Bittman
Jan F. Bjornstad
Mark M. Blanchard
Peter Bloomfield
Harvey Blumberg
Dan C. Boger
James A. Bolognese
Dennis Boos
David E. Booth
Richard C. Borden
Victor Marek Borun
Michael N. Boyd
John E. Boyer
Norman M. Bradburn
Mary-Lynn Brecht
James E. Breneman
J. Michael Brick
David R. Bristol
Ron Brookmeyer
Edward C. Bryant
Thomas J. Bzik
Patrick J. Cantwell
Lynda T. Carlson
Arthur Carpenter
Daniel B. Carr
John F. Carter
Frank C. Castronova
Aki N. Caszatt
Amrut M. Champaneri
Promod K. Chandhok
John P. Chandler
Judith-Anne W. Chapman
Yogendra P. Chaubey
Richard A. Chechile
Gina G. Chen
William W. S. Chen
Michael R. Chernick
Vernon M. Chinchilli
Jai Won Choi
Ronald Christensen
Peter D. Christenson
B. Christine Clark
Cynthia Z. F. Clark
Daren B. H. Cline
George W. Cobb
Timothy C. Coburn
Michael L. Cohen
Michael P. Cohen
Stephen H. Cohen
Steven B. Cohen
Salvatore V. Colucci
Richard S. Conway Jr.
Bruce K. Cooil
Kennon R. Copeland
Charles D. Cowan
John R. Crammer
Keith N. Crank
James A. Creiman
David F. Cruess
Andrew Joseph Cucchiara
William G. Cumberland
Leonard A. Cupingood
Andrew I. Dale
Robin A. Darton
Bruce M. Davis
Charles S. Davis
Roger B. Davis
Thomas M. Davis
Roberta W. Day
Virginia A. de Wolf
Angela M. Dean
Pierre C. Delfiner
Lorraine Denby
Wayne S. Desarbo
David A. Dickey
E. Jacquelin Dietz
Ralph Digaetano
David P. Doane
Joseph R. Donovan
Bonnie P. Dumas
William D. Dupont
Harold E. Dyck
Jean L. Dyer
L. Marlin Eby
Marlene J. Egger
Kathleen Louise Emery
Wil B. Emmert
Curtis S. Engelhard
Thomas W. Epps
Samuel M. Epstein
Neil R. Ericsson
Sylvia R. Esterby
Michael J. Evans
David Fairley
John P. Fazio
Ronald S. Fecso
G. Donald Ferree Jr.
Christopher A. Field
David F. Findley
Allen I. Fleishman
Hans-Theo Forst
Peter E. Fortini
Janet F. Fowler
John D. Fox
Leroy A. Franklin
Larry D. Freese
Stephen A. Freitas
Arthur Fries
Barbara A. Gabianelli
Paul Gallo
Edward E. Gbur Jr.
Cynthia D. Gentillon
Malay Ghosh
John A. Gillespie
Michael E. Ginevan
Beth C. Gladen
Marcia A. Glauberman
Joseph Glaz
William J. Glynn
A. Blanton Godfrey
Avni Goeksel
Richard F. Goldstein
James H. Goodnight
Robert D. Gordon
Barry I. Graubard
Stephanie J. Green
Timothy A. Green
Joel B. Greenhouse
John Vic Grice
Susan Groshen
Marvin H. J. Gruber
Leslie S. Grunes
Berton H. Gunter
Perry D. Haaland
Michael Haber
William A. Halteman
Katherine T. Halvorsen
Michael S. Hamada
David C. Hamilton
Janet M. Hanley
John B. Hannon Jr.
Robert C. Hannum
David Hardison
William V. Harper
Stephen P. Harris
Jeffrey D. Hart
Kenneth R. Hartmann
Gary D. Hatfield
Maurine A. Haver
William D. Heavlin
Harold V. Henderson

Longtime members

Ellen Hertzmark
Thomas Herzog
Richard P. Heydorn
Steven C. Hillmer
Susan M. Hinkins
Jerry L. Hintze
Chihiro Hirotsu
Douglas A. Hlavacek
Lorrie L. Hoffman
Thomas P. Hogan
Larry R. Holden
Alan Hopkins
Carol C. House
Berne Martin Howard III
Marla L. Huddleston
Allen C. Humbolt
Mohammad F. Huque
David N. Ikle
John M. Irvine
Alan J. Izenman
Kirk A. Jackson
Jean G. Jenkins
Linda W. Jennings
Gary R. Johnson
Paulette M. Johnson
Gerald A. Joireman
Ian T. Jolliffe
Michael P. Jones
Harmon S. Jordan
David R. Judkins
Karen Kafadar
Lee D. Kaiser
Leslie A. Kalish
Bruce A. Kaplan
John M. Karon
Theodore G. Karrison
Barry P. Katz
Richard W. Katz
Jerome P. Keating
James L. Kepner
Meena Khare
Byung-Soo Kim
Syed N. U. A. Kirmani
George J. Knafl
Kenneth J. Koehler
Edward L. Korn
Kenneth J. Koury
Abba M. Krieger
Jeffrey P. Krischer
Alok Krishen
Pieter M. Kroonenberg
Katherine B. Krystinik
Naoto Kunitomo
Alan H. Kvanli
James R. Lackritz
Nan Laird
Edward Lakatos
Mansum A. Lam
Kuang-Kuo Gordon Lan
J. Richard Landis
Stephen S. Langley III
Philip T. Lavin
Johannes Ledolter
Kelvin K. Lee
Kerry L. Lee
Martin L. Lee
James D. Leeper
Greg M. Lepak
James M. Lepkowski
Martin L. Lesser
Marcia J. Levenstein
Bruce Levin
Richard A. Lewis
Lawrence I-Kuei Lin
Carol L. Link
Robert E. Little
George A. Livingston
Roger Longbotham
Stephen W. Looney
Milton W. Loyer
Jay H. Lubin
James Lynch
Michael F. Macaluso
John MacIntyre
Kathleen S. Madsen
Jay Magidson
Linda C. Malone
Charles F. Manski
Kanti V. Mardia
Ray L. Marr
LeRoy T. Mattson
Timothy A. Max
Scott E. Maxwell
Fred M. Mayes Jr.
Michael J. Mazu
Donna K. McClish
Joseph P. McCloskey
Peter McCullagh
Janet Elizabeth McDougall
Daniel L. McGee
Philip G. McGuire
Stephen A. McGuire
Geoffrey J. McLachlan
Christine E. McLaren
Don L. McLeish
William Q. Meeker Jr.
Cyrus R. Mehta
Kathleen A. Mellars
W. David Menzie II
Michael Meredith
Samuel Merrill III
Marianne E. Messina
Michael M. Meyer
Terry G. Meyer
Joel E. Michalek
Richard O. Michaud
Robert J. Mokken
George E. Morgan
June Morita
Max D. Morris
Barbara G. Mroczkowski
Lawrence H. Muhlbaier
Bengt Muthen
Haikady N. Nagaraja
John C. Nash
Reinhard Neck
Margaret A. Nemeth
David Butcher Nolle
Michael A. Nolte
Robert M. Norton
El-Sayed E. Nour
Tom S. Nunnikhoven
Barry D. Nussbaum
Kevin F. O'Brien
Ralph G. O'Brien
Michael W. O'Donnell Jr.
Judith Rich O'Fallon
Thomas W. O'Gorman
Patrick D. O'Meara
Terence John O'Neill
David Oakes
Walter W. Offen
Francis G. Ogrinc
Thomas H. Oliphant
Frank Olken
John A. Ondrasik
William J. Owen
Albert Palachek
Alberto Palloni
Mari Palta
William S. Pan
Deborah L. Panebianco
Swamy A. V. B. Paravastu
Won J. Park
Robert A. Parker
Robert E. Parson
Van L. Parsons
Sharon M. Passe
Jeffrey S. Passel
Kevin Pate
Charles L. Paule
Karl E. Peace
N. Shirlene Pearson
Jane F. Pendergast
David W. Peterson
John J. Peterson
Joseph D. Petruccelli
Daniel Pfeffermann
John G. Phillips
Linda Williams Pickle
Gregory F. Piepel
Joseph G. Pigeon
William E. Pollard
Chester H. Ponikowski
Darwin H. Poritz
Randall W. Potter
Manfred Precht
Dale L. Preston
Louis H. Primavera
Howard M. Proskin
Lloyd P. Provost
Clifford R. Qualls
John N. Quiring
Tony K. S. Quon
Volker W. Rahlfs
Gopa Ray
Domenic J. Reda
Mark R. Reiser
William K. Rice Jr.
Mark William Riggs
Paula K. Roberson
Rosemary A. Roberts
Edwin L. Robison
David M. Rocke
Frank W. Rockhold
Russell H. Roegner
Anthony M. Roman
Robin L. Rose
Paul R. Rosenbaum
Gary L. Rosner
Lawrence V. Rubinstein
Andrew L. Rukhin
David Ruppert
Estelle Russek-Cohen
Carl T. Russell
Jim Rutherford
Michael S. Saccucci
William H. Sachs
Jerome Sacks
Thomas W. Sager
John P. Sall
William M. Sallas
Gilles F. M. Santini
Robert L. Santos
Miles M. Sato
Nathan E. Savin
John W. Sawyer Jr.
William G. Saylor
Patricia A. Scanlan
Stephen Schacht
David J. Schaeffer
Kenneth Schechtman
Mark J. Schervish
Brian R. Schlain
Mark D. Schluchter
David C. Schmittlein
David A. Schoenfeld
Timothy L. Schofield
Charles B. Schriver
John H. Schuenemeyer
Donald J. Schuirmann
Steven J. Schwager
Michael Schwarzschild
David W. Scott
William L. Seaver
Teddy I. Seidenfeld
Joanne B. Severe
Thomas R. Sexton
Arvind K. Shah
Ramalingam Shanmugam
Mohammed A. Shayib
Gary L. Shoop
Patrick E. Shrout
Stanley A. Shulman
Andrew F. Siegel
Richard S. Sigman
Jeffrey S. Simonoff
Terry L. Sincich
Judith D. Singer
Joan H. Skurnick
Richard J. Smith
Richard L. Smith
Tom A. B. Snijders
Francisco P. Soler
Dan J. Sommers
Terence P. Speed
Bruce D. Spencer
Clifford H. Spiegelman
Nancy L. Spruill
Donald M. Stablein
Edward J. Stanek III
William M. Stanish
Richard M. Stanley
Joel H. Steckel
David W. Stewart
John A. Stewart
Robert A. Stine
Sandra S. Stinnett
S. Lynne Stokes
Michael A. Stoto
Miron L. Straf
Walter W. Stroup
Robert D. Sutherland
David A. Swanson
Robert M. Tardiff
Robert L. Taylor
Marcia A. Testa
Hanspeter Thoeni
John H. Thompson
Mary E. Thompson
Theodore J. Thompson
Anthony D. Thrall
Luke-Jon Tierney
Richard B. Tiller
Naitee Ting
Ronald R. Titus
Jerome D. Toporek
David C. Trindade
L. Claire Tsao
Kam-Wah Tsui
Gregory W. Ulferts
Thomas J. Uryniak
Jessica M. Utts
Esa Ilkka Uusipaikka
Pamela M. Vacek
Richard Craig Van Nostrand
Stephen B. Vardeman
Denton R. Vaughan
Joseph S. Verducci
Steve P. Verrill
Joseph G. Voelkel
Joachim Vollmar
Grace Wahba
Joel A. Waksman
Katherine K. Wallman
Lars Walloe
Sophronia W. Ward
Herbert W. Ware
William L. Weber
Thomas E. Wehrly
David L. Weimer
Clarice R. Weinberg
Daniel L. Weiner
Robert M. Wharton
Andrew A. White
David C. Whitford
Dexter C. Whittinghill, III
Priya J. Wickramaratne
Rand R. Wilcox
Christopher John Wild
Leland Wilkinson
Jean F. Williams
Michael A. Wincek
Lawrence C. Wolfe
Kirk M. Wolter
Farroll T. Wright
Tommy Wright
Michael G. Yochmowitz
Elizabeth R. Zell
Daniel Zelterman

35–39 Years

Michael A. Adena
Joseph Adwere-Boamah
Dorothee P. Aeppli
Sung K. Ahn
Christian M. Alaouze
Adelin I. Albert
Jeanne M. Aldred
Melvin T. Alexander
Paul D. Allison
Dhammika Amaratunga
Yasuo Amemiya
Kathryn H. Anderson
John Angle
John E. Angus
Thomas Arbutiski
Stephan Arndt
Sarah J. Arterburn
Jenny A. Baglivo
John Bailer
David L. Banks
Chris M. Barker
Anna E. Baron
Andrew Lewis Baughman
Moraye B. Bear
Mark P. Becker
Edward J. Bedrick
Alexander E. Belinfante
Stephen S. Bell
Michael E. Bellow
Peter M. Bentler
James Calvin Berry
Jonas V. Bilenas
Warren B. Bilker
Bruce Steven Binkowitz
Thomas R. Birkett
David K. Blough
Carol Joyce Blumberg
Mary Ellen Bock
Steven B. Boswell
Robert D. Bowser
Nancy J. Boynton
Leonard E. Braitman
Rollin F. Brant
Pamela W. Broene
Thomas W. Broene
Roger L. Brown
William J. Browning
Judith A. Buchino
Shelley B. Bull
Christine M. Bunck
Lawrence F. Burant
Thomas E. Burk
Carolee Bush
Harry F. Bushar
Kevin C. Cain
Carol Veum Caldwell
Charles A. Calhoun
Richard J. Caplan
Richard Raymond Carlson
Michael L. Carniello
B. Thomas Carr
Nancy J. Carter
L. Douglas Case
John V. Castellana
Deborah A. Cernauskas
N. Rao Chaganty
Subhabrata Chakraborti
Raymond L. Chambers
Charles W. Champ
Douglass S. Chapman
Ching-Shui Cheng
Richard P. Chiacchierini
Yu-Kun Chiang
Paul C. Chiou
Christy Chuang-Stein
Constance F. Citro
Murray K. Clayton
Mario A. Cleves
Avital Cnaan
Paul E. Coffman Jr.
Mark E. Cohen
Richard D. Cohn
Michael Christopher Conlon
Margaret Conomos
Charles F. Contant Jr.
Nancy R. Cook
Peyton J. Cook
Stephen R. Cosslett
Patricia S. Costello
Noel A. Cressie
Douglas E. Critchlow
David C. Cue
Estella Bee Dagum
Marie Davidian
Richard A. Davis
Thomas C. Dawe
Richard D. De Veaux
Roger L. Deaton
Michael R. Delozier
Dipak K. Dey
James DiCanzio
Marie Diener-West
David M. Dillard
John S. Dixon
Thomas W. Dobbins
Ken Grant Dodds
Jeff F. Doerzbacher
Gerald A. Dorfman
Gaylen W. Drape
Kevin Ward Drummey
Kirk A. Easley
Robert G. Edson
Don Edwards
Thomas Barry Edwards
Bruce P. Ekholm
Ronald K. Elswick Jr.
Brian John English
Patricia A. English
Eugene A. Enneking
Kent M. Eskridge
Mark A. Espeland
Frederick W. Faltin
Dean H. Fearn
Michael B. Feil
Gwyn R. Ferguson
Luisa T. Fernholz
Eric Jeffrey Feuer
Denzil G. Fiebig
Dianne M. Finkelstein
Patrick E. Flanagan
Dean A. Follmann
Gosta Forsman
T. A. Foster
Floyd J. Fowler Jr.
Anne E. Freeny
Edward W. Frees
Jerome Frieman
Peter P. Gaccione
Shayne C. Gad
Lionel A. Galway
Michael A. Gates
Constantine Gatsonis
Jeffrey J. Gaynor
Philip M. Gbur
James Connell Gear
Joseph C. Gfroerer
Subir Ghosh
Alfred D. Godfrey
Carl V. Gogolak
Miguel A. Gomez-Villegas
Nancy M. Gordon
G. Jay Graepel
J. Brian Gray
Janis G. Grechko
Edwin J. Green
John W. Green
Michael A. Greene
Daniel A. Greer
Timothy G. Gregoire
Yves Grize
David J. Groggel
Miriam S. Grosof
Antonio F. Gualtierotti
Olivier J. M. Guilbaud
Pushpa L. Gupta
Ramesh C. Gupta
Yesvy Gustasp
Sam Gutterman
Josue Guzman
Alula Hadgu
Michael D. Hale
Marc Hallin
J. Michael Hardin
Rachel M. Harter
Nancy C. Hassett
Trevor J. Hastie
Nathaniel Alan Heckert
Charles E. Heckler
Donald R. Hedeker
Daniel F. Heitjan
Wolf-Dieter Heller
Victoria Black Hench
David H. Henry
Keith Heyen
Susan G. Hilsenbeck
Joseph G. Hirschberg
Edward C. Hirschland
Myron Hlynka
James S. Hodges
Howard R. Hogan
David B. Holiday
Paul S. Horn
Amelia Dale Horne
Welling C. Howell Jr.
Wei-Min Huang
David L. Hubble
Norma Faris Hubele
Esther Sid Hudes
Beverley Adams Huet
Arthur L. Hughes Jr.
Edward Hughes
Clive A. Hunt
Gerardo Ignacio Hurtado
Luis H. Hurtado
Shelley Hurwitz
Linda S. Hynan
Deborah D. Ingram
Henry F. Inman
Harald K. Iverson
Patricia A. Jacobs
Debra J. Jacobson
Denis George Janky
Guillermina Jasso
Christopher Jennison
Daniel R. Jeske
B. Alan Johnson
Robert E. Johnson
Wesley Orin Johnson
Albyn C. Jones
Bradley A. Jones
Robert I. Kabacoff
Tzu-Cheg Kao
Alan F. Karr
Sri Haryatmi Kartiko
Richard L. Kasul
Charles R. Katholi
Darryl Katz
Sallie Keller
Elizabeth J. Kelly
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David M. Zucker
Rebecca Zwick

Highlights of the April 13–14, 2018, ASA Board of Directors Meeting

ASA President Lisa LaVange convened the first ASA Board meeting of 2018 at the ASA offices in Alexandria, Virginia. The highlights of the meeting follow.

Discussion Items

- The board engaged in a lively strategic planning discussion, resulting in ideas that will find their way to the pages of *Amstat News* in the coming months.
- The board reviewed an ASA Statement on Conveying Forensic Findings. Board approval through the Board Executive Committee will follow after some minor changes.
- The board met with Juan Meza, the new director of the Division of Mathematical Sciences (DMS) at the National Science Foundation. Meza outlined areas of current and future investment for DMS. He emphasized the connection of funding to the NSF's "Ten Big Ideas."

Action Items

- The following editorial appointments were made:
  - Tyler McCormick, University of Washington, *Journal of Computational and Graphical Statistics*, 2019–2021
  - Jeff Witmer, Oberlin College, *Journal of Statistics Education*, 2019–2021
  - Ricardo Cao, University of A Coruña, *Journal of Nonparametric Statistics*, 2019–2021
  - Jerome Reiter, Duke University, *Statistics and Public Policy*, 2019–2021
  - V. Roshan Joseph, Georgia Institute of Technology, *Technometrics*, 2020–2022

2018 Board of Directors

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Cynthia Bocci, International Representative

Scott Evans, Publications Representative

Amarjot Kaur, Treasurer

Ron Wasserstein, Executive Director and Board Secretary

- Journal prices were reviewed and an increase of 5% on institutional North American and international print and online prices for 2019 was approved, as was a 2% increase on ASA member rates for print. Online access for ASA members is free.
- The board approved a revision to the ASA's Guidelines for Ethical Statistical Practice. The revision addresses areas of professional misconduct not addressed in the current guidelines. The updated guidelines are posted at *http://bit.ly/2rPHv6e*.
- The board updated the policy for formation of ASA outreach groups to clarify the purposes for such groups.

Reported Items

- Associate Executive Director and Director of Operations Steve Porzio updated the board on ASA financials for 2017. The year ended in the black. Also, Porzio and ASA Treasurer Amarjot Kaur presented the results of the ASA's annual audit. The board thanked Porzio and staff for another clean audit.
- Kaur also updated the board on the status of the ASA's investments. Investments gained about $2.5 million in value in 2017. Market value at the end of March 2018 was about $20.6 million.
- Kaur also presented proposed changes to the ASA bylaws to update the names and descriptions of some of the standing committees related to finance and budget. Those proposed changes are being published in this issue of *Amstat News*.
- The board received progress reports on the strategic initiatives launched by ASA President Lisa LaVange. All are well under way. In addition, ASA President-elect Karen Kafadar discussed with the board ideas she has for 2019. Further discussion of those ideas and detailed proposals to implement them will follow.
- The Council of Chapters Governing Board (COCGB) and the Council of Sections Governing Board (COSGB) reported on their recent activities. The COCGB highlighted its work to monitor the "health" of chapters and noted the creation of a new chapter, the Columbus (Ohio) Chapter. On the "health" theme, the COSGB has been developing better ways to evaluate the well-being of sections, including fiscal status and services to section members.
- Vice President Williamson presented the annual report of the Membership Council. These council reports help the board stay connected with ASA committees, and vice versa. Board members learned of committee activities and plans and heard questions or concerns from committees.
- Amanda Malloy, ASA director of development, provided a brief update on the ASA's fundraising activities, and Steve Pierson, ASA director of science policy, updated the board on our advocacy work. Malloy noted that 2017 was our best year yet in terms of fundraising, continuing a multi-year string of best years. Pierson noted the launch of the ASA's Count on Stats program, concerns about statistical agency independence in Puerto Rico, the latest developments with the citizenship question being added to the Census, and numerous other items of importance to our community.
- ASA Executive Director Ron Wasserstein updated the board on the follow up to the successful Symposium on Statistical Inference, held in October 2017. Later this year, a special issue of *The American Statistician* on the topic of statistical inference will serve as a "work product" of the symposium, though papers were welcomed from everyone, not just symposium participants. This special issue will be online only and open access.

The full board meets again July 27–28 in Vancouver, immediately prior to the start of JSM 2018. The board will also have its annual budget meeting on June 8 at the ASA HQ in Alexandria, Virginia. ■

Proposed Revisions to the ASA Bylaws

Recommended by the Board of Directors April 13, 2018

The ASA Board of Directors proposes the following modifications to the ASA bylaws. (*http://bit.ly/2Gsz19p*) The purpose of the changes is to ensure the ASA's finance-related committee charges are consistent with current best practices and to update some provisions that are either no longer applicable or not reflective of current best practices.

Finance-related committee charges:

Article IX. COMMITTEES

4.a. Audit Committee. The Audit Committee shall consist of the Treasurer, who acts as chair, the chair of the Budget Committee, and the Past President. It shall periodically recommend an audit firm to the Board of Directors; serve as the Board of Directors' liaison to the Association's auditors; represent the Board of Directors in discharging its responsibilities relating to the accounting, reporting, and financial practices of the ASA; have general responsibility for surveillance of internal controls, accounting, and audit activities of the ASA; ensure the audit is carried out in a fiscally sound manner; review with the audit firm their audit procedures, including the scope and timing of the audit, the results of the annual audit, and any accompanying management letters; assess the adequacy of internal controls and risk management systems; review the IRS Form 990, 990-T, and Virginia Form 500; review the document destruction and whistleblower policies; and review material about any pending legal proceedings involving the ASA. ~~recommend an audit firm to the Board of Directors. It serves as the Board of Directors' liaison to the Association auditors. It is responsible for seeing that the audit is carried out in a fiscally sound manner and that reports are prepared as needed by the Board of Directors.~~

4.b. Budget Committee. The Budget Committee shall consist of the three Vice Presidents and Treasurer, the latter ex officio without vote. The senior Vice President shall serve as chair of the committee. ~~It is responsible~~ The Committee shall annually recommend the operating budget for the coming fiscal year, including the Association staff compensation budget (salaries and fringe benefits), for action by the Board of Directors; periodically review the Association's financial results in comparison to the budget; and periodically assess the facilities needs of the Association home office. ~~for annually proposing the budget for the coming fiscal year. It is responsible for annually recommending a budget for action by the Board of Directors. It is also responsible for annually evaluating the capital budget, the salary classification structure, and the fringe benefits for the Association staff. It shall also periodically review the incomes, expenditures, and allocations during the year for consistency with the budget; the accounting system employed and the budgeting process; and the facilities need of the Association home office. If it so chooses, the Board of Directors as a group may serve as the Budget Committee.~~

5.d. ~~Finance~~ Investments Committee. The ~~Finance~~ Investments Committee shall recommend to the Board of Directors, and assess adherence to, investment guidelines that will improve the safety, return, reporting, or management of the investment accounts; periodically review the holdings in the investment accounts of the Association; assess appropriate benchmarks for investment performance; evaluate the performance of the investment managers and consultants; recommend to the Board of Directors, as appropriate, steps that will improve the safety, return, reporting, and/or management of the investment accounts; and such other matters related to the financial performance of the Association as the Board may assign from time to time. ~~recommend long-term financial planning, supervise the investments of the Association, and carry out other duties as determined by the Board of Directors.~~ The Finance Committee shall consist of the Treasurer as chair and six full members, each serving a three-year term, designated by the President-Elect.

Other revision recommendations:

Article X. PUBLICATIONS

~~4. Directory. At suitable intervals, the Association shall make available a directory of its members. At suitable intervals, the Constitution and By-Laws of the Association shall be published.~~

Article II. FINANCE

3. Authority. All funds of the Association shall be deposited with the Treasurer, who shall make disbursement therefrom under regulations of the Board of Directors. The Treasurer shall have authority to purchase securities with funds that the Board of Directors has designated for investment and to sell such securities, but such purchases and sales shall be made only in accordance with such guidelines as the Board of Directors shall prescribe.

   ~~The Board of Directors may appoint full members of the Association residing outside the United States to serve as depositories for funds.~~

   With the approval of the Board of Directors, the Treasurer may delegate the powers listed in the first paragraph of this section, as well as the power to sign checks and to access safe-deposit boxes.

4. ~~Surety Bonds. All persons who are responsible for the disbursement of funds shall be insured by a surety and performance bond in amounts and with companies approved by the Board of Directors.~~ Fidelity: All persons who are responsible for the disbursement of funds shall be held as covered under a blanket Employee Dishonesty policy at limits approved by the Board of Directors.

10. Indemnity. The Association shall indemnify each person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action, suit, or proceeding, whether civil, criminal, administrative, or investigative, by reason of serving at the request of the Association as a director, officer, employee, or agent of another organization, against all judgments, penalties, fines, and settlements, and against all reasonable expenses, including attorneys' fees, actually incurred in connection with such action, suit, or proceeding, to the fullest extent permitted by Massachusetts law, except if the actual or potential liability is due to the person's own negligence or gross negligence, or criminal misconduct, or action in violation of ASA rules or policies.

Note: In accordance with the bylaws, the membership shall have 75 days to review and respond to any proposed change. Please direct comments to the executive director and ASA secretary at Ron@amstat.org by September 15, 2018. Member comments will be shared with the ASA Board of Directors before further action regarding these changes is taken. ■

THE AMERICAN STATISTICIAN HIGHLIGHTS

May Issue Has Something for Everyone

The May 2018 issue of *The American Statistician* features 13 articles that span a range of methodology and application areas. There is something for everyone.

The General section begins with an article about identifiability and estimation issues that arise when parametric families are extended with extra parameters for increased flexibility. A second article investigates the effect of standardization on multicollinearity measures, and a third article discusses the construction of joint distributions from marginal distributions in such a way that constraints on the random variables are satisfied.

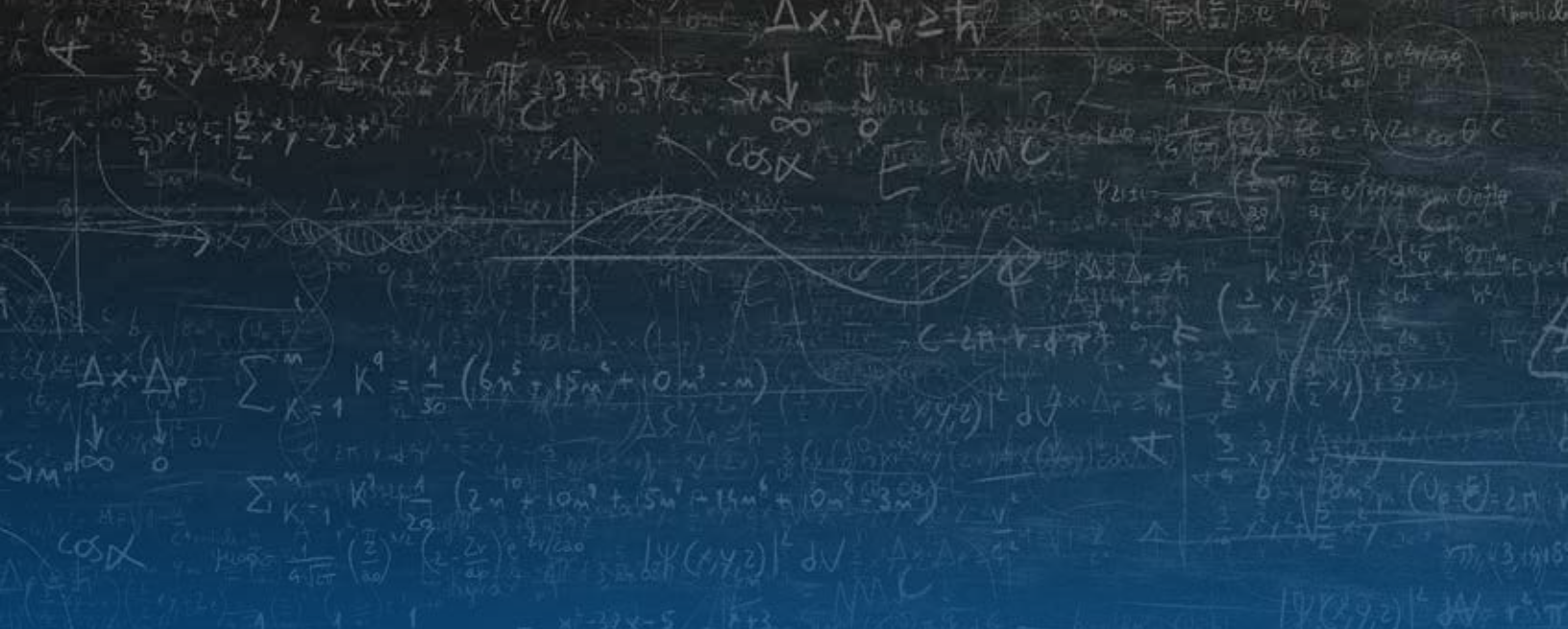
The lineup for Teacher's Corner includes an experience report on a curriculum design for a professional master's program of statistical practice. A second paper investigates incomplete data inference methods for "shaved dice." A third paper proposes a graphical display of type-2 errors when testing for a normal distribution, and the final paper in this section develops and compares methodologies when using regression analysis to detect aging trends.

You will find two Short Technical Notes. The first develops a fast algorithm for computing the expected value of sample central moments, and the second offers alternative proofs that a Laplace distribution can be represented as a Gaussian mixture.

There are also two papers in the Statistical Practice Section. The first is a discussion about Cochran's rule-of-thumb on the adequacy of the chi-square test for independence in a contingency table, and the second is an investigation of the effect population skew can have on sample size formulas.

Finally, there are two papers contributing to the Interdisciplinary and Statistical Computing and Graphics sections of the journal. The first studies high-school dropout rate and proposes correspondence analysis as a way to obtain additional insight. The second paper advocates for the use of symbolic computing tools and uses a context in which the efficient score test is of interest.

To read these articles or submit your work to *The American Statistician*, visit *www.tandfonline.com/toc/utas20/current*. ■



Deans Offer Advice to Statistics Departments

R. W. Doerge, M. Fuentes, S. C. Morton, H. J. Newton, S. G. Pantula, and A. R. Sampson

Increasingly in academia, statisticians have been appointed to university administrative positions. Pioneers include W. Allen Wallis, president of the University of Rochester, 1962–1970; Albert Bowker, chancellor at the University of California, Berkeley, 1971–1980; Gertrude Cox, director of the Institute of Statistics at the Consolidated University of North Carolina, 1945–1960; and Lowell Reed, president of The Johns Hopkins University, 1953–1956.

During the past decade, there has been an acceleration of this process (see *www.amstat.org/asa/news-home.aspx*). These more recently appointed academic administrators who are also statisticians can offer valuable perspectives about the current dynamic atmosphere for statistics. With this motivation, an invited panel discussion session was organized for JSM 2017 that included five distinguished deans who are renowned statisticians in their own right: Rebecca Doerge, Montserrat Fuentes, Sally Morton, H. Joseph Newton, and Sastry Pantula. The breadth of their academic experiences gave them excellent perspective on statistics and the challenges now facing statistics departments.

The goal for the discussion was to provide insights for statisticians in the "trenches." Allan Sampson of the University of Pittsburgh was the session organizer and moderator. To help focus the discussion, four broad areas were delineated:

1. Based upon their experiences as deans, what advice would the panelists offer to individuals in statistics departments who are dealing with the many challenges facing statistics departments in our current environment (e.g., managing growth, developing interdisciplinary programs (particularly with regards to data science), marketing and publicizing departments, and developing and mentoring personnel)?
2. How do the panelists' academic backgrounds impact their relationships with the statistics departments in their setting?
3. What advice would the panelists as deans wish they could give their past selves as department administrators that would have been helpful to know at that time?
4. What advice would the panelist give to academic statisticians who would like to pursue a track in academic leadership, in particular, building an appropriate portfolio of experiences? Also, what are the panelists' views about addressing the difficulties in balancing leadership responsibilities with both research and personal lives?

Panelists

The participants and their affiliations (as of August 3, 2017) in the discussion included the following:

Rebecca Doerge
Dean of the Mellon College of Science at Carnegie-Mellon University and earlier Head of Statistics at Purdue University

Montserrat (Montse) Fuentes
Dean of the College of Humanities and Sciences at Virginia Commonwealth University and prior to that Head of Statistics at North Carolina State University

Sally Morton
Dean of the College of Science at Virginia Tech and previously Chair of Biostatistics at the University of Pittsburgh

H. Joseph (Joe) Newton
Dean Emeritus of the College of Science at Texas A&M University and earlier Head of Statistics at Texas A&M

Sastry Pantula
Dean of the College of Science at Oregon State University and earlier Head of Statistics at North Carolina State University

While the panelists explored some of these areas in depth, other areas were addressed more tangentially. What follows is a summary of their discussion with a few additional observations.

The panelists broadly observed that successful university leaders have great communication skills and are flexible in their outlook and actions. Importantly, they have a passion for what they do. Their collective view was that being a department chair or head was one of the hardest jobs on campus, but also among the best jobs for making a real impact. Their advice for department chairs, as well as other leaders, is to think one level above where they are. Faculty, for instance, might consider the various concerns of the chair when proposing an idea or request.

More specific observations were that chairs need to get along with other chairs and deans. Chairs need, for example, to make "deals" and build collaborative enterprises that are mutually beneficial to multiple university units. And chairs are recommended to avoid unnecessary participation in politics. Chairs are part of the dean's leadership team and not just the department's advocate. It was suggested a chair holds an unhelpful viewpoint if they find themselves saying, "I fought with the dean and here's what I got."

It is important for a chair to be able to make decisions. To be an effective decision-maker, panelists' advice included "don't perseverate too much," "be as transparent and ethical as possible," "be clear about the criteria for the decision," and "be collaborative." Making hard decisions with faculty, students, and staff is a skill chairs must master because decisions are often made hard by difficult people. Some panelists thought chairs shouldn't necessarily assume "the university has your back" in all situations. The panel agreed among themselves that deans should empower chairs and faculty to, as one panelist noted, "figure it out."

It was strongly recommended that leaders of departments and programs should learn about the business/financial model used at their university. Growing a department requires knowing how money is allocated and being creative within the given financial environment. It is important to understand the broad higher education landscape with particular attention paid to current demographics and technology change—older returning students and increased online education, for example. Panelists noted that as deans and provosts change at a university, policies and priorities will change, so chairs need to adapt accordingly.

In approaching deans about issues and concerns, the panelists recommended chairs should understand the constraints facing a dean and aspire to make the dean's life easier. A way to accomplish this is to base solutions to problems upon evidence and, as a panelist observed, possibly offer three solutions to an issue—one that is free, one that is expensive, and one in between. Also suggested when scheduling a meeting with the dean is sending a written agenda and, ideally, a one-page executive summary in advance.

In regard to fundraising, for both deans and chairs, the panelists agreed philanthropy is

part of the job. For deans, it is not unusual for one-third of the dean's time to be devoted to fundraising. The panel strongly suggested it is best to focus on the donor's passions and interests, not the chair's, when a chair is talking to prospective donors. And as one panelist said, "It is always important to listen!"

To obtain funding from industry, a chair should be proactive in approaching a possible company by having the company identify in advance what their needs are so the statistics department can be appropriately responsive with the right faculty presenting. One panelist used this approach with local industry and noted it would often lead to research contracts. Caution was expressed about not spreading a department's resources too thinly, as making promises that can't be sustained is counterproductive for the department in the long run.

The panel uniformly advocated it is absolutely essential for statistics departments to be involved in the data science era. Even if the department's sentiment is that it is too late to do so, the panel urged it is never too late and the department should just start to get involved and not necessarily start big. Moreover, they said that for a statistics department not to be part of data science disadvantages the department's students. To facilitate statistics departments' involvement in data science, the panelists recommended that having joint appointments both sets the stage and advances the relationships. To further these relationships, the panel agreed it is imperative that a statistics department's faculty venture out from their offices and spend time interacting with other departments' faculties.

Within their universities and the broader community where they are located, the panelists believed statistics departments need to expend much more effort to "market themselves." Many colleges have good publicity people, and it should not be seen as "bragging" for a statistics department "to tell its story."

Several panelists urged statisticians to do more than "academic papers" and work on research that "matters" and make sure it's known. One panel member suggested a statistics chair should "empower" the more extraverted faculty to promote the department and that not every faculty member need "get onboard" to do this. Another offered that chairs should always have available three promotional "bullets," one for departmental research, one for teaching, and one for service and outreach.

An obvious suggestion, but one that is often missed, is for departmental faculty, staff, and students to include in their self-identification that they are a "member of the department of statistics" in any professional public setting where they are introducing themselves.

Prior to discussing some of the challenges faculty face in taking on administrative responsibilities, several panelists noted two specific challenges statistics chairs and statisticians in general face in an academic environment. One is the need to "constantly explain" why statisticians should have different promotion criteria than most of the physical and social sciences. Motivating this concern is that accomplished statisticians have portfolios with both basic statistical research and high-level collaborations in a variety of settings, including with researchers, policy makers, and governmental organizations. The other challenge identified was the sense that when statistics is part of a university's science division, there are some in the sciences who hold a view that statisticians are not "really scientists." To counter these ideas, panelists remarked that having more national statistics awards would be excellent.

For academics taking administrative positions, the panel thought some of their colleagues criticized them for abandoning their departments when they should have been supportive of their "being an advocate of their discipline while serving in a broader leadership position." Further disconcerting to the panel was the "perception that faculty, especially women, go into administration in mid-career because their research wasn't successful." Contrary to this misperception, the panel collectively agreed that, as an administrator, one should maintain one's research career. Not only is this satisfying, it also makes it less difficult to deal with highly accomplished faculty in negotiating tough issues.

To have more statisticians move into administration, the panel reiterated that the discipline should support fellow statisticians who focus on administration, thereby benefitting statistics and other disciplines more broadly.

Overall, the panelists agreed that being a department chair or dean is both rewarding and personally gratifying. They concluded by strongly encouraging the audience to make use of their statistical backgrounds to be leaders in serving their departments and the broader academic community. ■

GWU Alumni Revisit Campus to Share Insights, Give Career Tips

The George Washington University Student Chapter members mingle with alumni at The George Washington University in Washington, DC, March 3.

Although the school's official homecoming was a month prior, the American Statistical Association Student Chapter at The George Washington (GW) University hosted a homecoming redux of sorts on March 3, welcoming back five statistics and biostatistics alumni for a two-hour career panel so they could share their insights on entering the job market as newly minted graduates.

Roughly 50 graduate students from the statistics, biostatistics, and data science programs attended the event headlined by five alumni speakers: Cheung Li, National Cancer Institute; Wayne Woo, GlaxoSmithKline Vaccines; Guoxi Yan, American Society for Engineering Education; Yuqing Lu, Kaiser Permanente; and Haijun Wang, Arkansas Children's Hospital. They shared tips on writing résumés, preparing for interviews, and burnishing critical soft skills such as teamwork and effective communication. Afterward, the panelists "loosened their ties" and enjoyed pizza, drinks, and casual conversation with students during the closing networking hour.

From left: Cheung Li (at podium, National Cancer Institute), Bo Ye (student moderator), Wayne Woo (GlaxoSmithKline Vaccines), Guoxi Yan (American Society for Engineering Education), Yuqing Lu (Kaiser Permanente), and Haijun Wang (Arkansas Children's Hospital)

"We are privileged to have such fantastic alumni willing to give back to the students following in their footsteps," noted event organizer **Xiaoyan Yin.** "That, combined with assistance of my team members—**Bo Ye**, **Jialu Wang**, and **Tian Pei**—and the support of the ASA national organization and the GW Statistics Department, were instrumental to the event's success." Chapter Co-Presidents **Xiaoyu Zhai** and **Arnold Saunders** agreed. They said these events drive home the value of ASA membership to students and pulling together a large event like this is a clinic in leadership skills that can't be picked up in a classroom. ■

AAAS Science and Technology Policy Fellowships Class of 2017–2018
Photo courtesy of AAAS Science and Technology Policy Fellowships

Boost Your Career in Washington

Kat Song, AAAS Communications and Digital Strategy Director

Mathematicians and statisticians are in high demand in the federal government. With assignments in federal agencies, on Capitol Hill, and in the judicial branch, AAAS Science and Technology Policy Fellows are on the front line of vital issues affecting society. The AAAS Science and Technology Policy Fellowships (STPF) are the premier opportunity for outstanding mathematicians, statisticians, scientists, and engineers at any career stage to learn first-hand about policymaking while contributing their STEM mindset to American government.

STPF alumni leverage their fellowship experience in myriad ways. Carla Cotwright-Williams is now a scientist at the US Department of Defense. Karoline Pershell has become executive director of the Association for Women in Mathematics and research director at a tech company.

The yearlong fellowship runs annually from September through August and includes a class of close to 300 fellows representing a broad range of backgrounds and disciplines. Engaging with policymakers, administrators, and thought leaders, fellows broaden their networks and career paths. After the fellowship, fellows become members of a strong corps of 3,000+ alumni—policy-savvy STEM leaders in academia, government, industry, and the nonprofit arena.

Currently, there is a particular need for statisticians among STPF ranks. Learn more and apply to become a fellow at *http://bit.ly/2IrOGMg*. Also, watch a video series about the benefits of being a fellow and how to apply at *http://bit.ly/2wMwsQ9*. ■

10 Win STATSKETBALL CHALLENGE, Prove Statistics Is Fun

MORE ONLINE
Want to be ready for next year's Statsketball and other contests? Sign up for the *This*IsStatistics email list at *http://bit.ly/This-Is-Statistics-Email.*

Get details about Statsketball at *http://bit.ly/Statsketball.*

Statsketball 2018 pitted students in 189 teams against each other to predict the outcomes of the 2018 NCAA Men's Basketball Tournament using statistics.

The two contests included the "Pick 'Em": Upset Challenge to predict the winners of the first-round games and the "Build Your Own Bracket": Draft Challenge to select teams from 224 draft points and assemble a cohort from seeded participants to earn the most overall points.

The contest invited students to apply statistics—the science of learning from data—to one of the biggest sporting events of the year, proving that statistics can be fun and applied to any field.

"Pick 'Em": Upset Challenge Winners

High School:

- **First Place:** Sophie Mason, Senior, Valley Christian High School, San Jose, California
- **Honorable Mention:** Gino Assenmacher, Junior, Monroe High School, Monroe, Michigan
- **Honorable Mention:** Makendra Grubel, Senior, Mauldin High School, Simpsonville, South Carolina

Undergraduate:

- **First Place:** Jake Oringel, Freshman, The University of North Carolina, Charlotte, North Carolina
- **Honorable Mention:** Ashley King, Senior, Anderson University, Anderson, Indiana
- **Honorable Mention:** Andy Li, Sophomore, Carnegie Mellon University, Pittsburgh, Pennsylvania

"Build Your Own Bracket": Draft Challenge

High School:

- **First Place:** Addie Morris, Senior, West Branch High School, Beloit, Ohio
- **Honorable Mention:** Savanna Triplett, Senior, West Branch High School, Salem, Ohio

Undergraduate:

- **First Place:** Luke Benz, Junior, Yale University, Middlebury, Vermont
- **Honorable Mention:** Mitchell Collins, Senior, California Polytechnic State University, San Luis Obispo, California

"The ASA congratulates this year's Statsketball winners for their exceptional creativity and well-executed methodologies," said ASA Executive Director Ron Wasserstein. "All the participants showed that statistics can be applied to any field of interest and can be fun as well." ■

Six Women Describe Their WiTNY Winternship Experiences

Rosa Basevich, Neeru Bhagirath, Maria Mahin, Noorulain Paracha, and Christina Sarcone

In 2018, 46 companies joined Women in Technology and Entrepreneurship in New York's (WiTNY) "winternship" program to pair undergraduate women pursuing technical majors from the City University of New York (CUNY) with internships during their winter break.

WiTNY is an initiative between CUNY, Cornell Tech, and industry with the mission to facilitate, encourage, and enable a significant increase in the participation of women in both higher education and entrepreneurship in fields related to technology in the New York market. Through strategic initiatives and purposeful integration with key institutions and programs in New York City, WiTNY targets high-school girls getting ready for college, as well as undergraduate and graduate women, preparing them to secure a rewarding and lucrative position in the technology industry.

Women in Technology and Entrepreneurship in New York (WiTNY) "winterns" at Pfizer Inc. From left: Research Associate Shin Ah Oh, Technology Tour Guide Kelly H. Zou, and winterns Noorulain Paracha, Neeru Bhagirath, Christina Sarcone, Maria Mahin, Rosa Basevich, and Aisha Khoja. Photo by Xuemei Cai.

This year, Pfizer—through the women's leadership network WOW (women owning the way)—hosted six winterns in a three-week program. The women were immersed in topics related to Pfizer's business, with an emphasis on how technology plays a role through applications of computer science, data science, and digital media.

Rosa Basevich

Undergraduate Student, Hunter College

I am currently a junior at Hunter College, pursuing a bachelor's of computer science and a math and German minor. As part of the winternship program, I was paired with Pfizer in the Real-World Data and Analytics Center of Excellence. I was able to get familiar with the pharmaceutical industry and Pfizer through the means of a group project.

For our group project, we tried to find solutions to combat the opioid epidemic using machine learning. Though our project was mainly research based (we could not write algorithms that would analyze trends within groups that would identify opioid abuse for lack of time and experience), it was extremely informative. During the research stage of the project, we learned about many groups that have also found solutions through machine learning to identify trends in opioid abuse.

In addition to the group project, we had individual managers in the business technology department of Pfizer. Having never taken a statistics course before, working in data analytics was both challenging and rewarding. I was introduced to the software R and was able to use regression analysis and ROC curve to interpret and quantify large data sets.

Working with Kelly (my manager) has inspired me to take a big data course and learn more about data science. I also hope to take more advanced statistics courses in my academic future. I was also surprised to see the vast technological presence Pfizer has. Seeing apps like BeLive (meant to aid patients who have fibromyalgia) and the many emerging technology products was inspiring, since it shows code working in the real world, reaching and helping many people.

Neeru Bhagirath

Undergraduate Student, Macaulay Honors College at The City College of NY

I am pursuing a biotechnology degree with a double minor in computer science and public policy at The City College of New York. I plan to use the combination of my studies to combine health care and technology to create a more accessible world.

Prior to this winternship at Pfizer Inc., I did not have much exposure to tech or business beyond college courses; however, I was able to gain an expansive overview of what measures are taken to make a pharmaceutical company successful.

Within my three weeks, I worked on a departmental project and a challenge project. The purpose of the departmental project was to create a game to promote inclusivity among the domestic and international offices, and the challenge project was to come up with a way to combine Pfizer's core health care values and with today's increased importance on technology and communication.

Through working on the challenge project, I learned about valuable lessons in teamwork, modern day epidemics, and—most of all—how important it is for a company to use their outreach to invoke change among the public.

Maria Mahin

Undergraduate Student, Hunter College

I am a fourth-year student at Hunter College, studying computer science with an interest in technology, education, and health care. I spent my first three years of college studying nursing, where I was able to see how technology critically shapes the way we prevent, diagnose, and treat diseases. Later, I taught myself how to program and fell in love with it. Since then, I've dreamed of one day using technology as a means of helping people live longer, healthier lives.

This winternship program provided an opportunity for me to learn from inspiring female leaders and see how technology and health care can be intertwined. During the three weeks of the program, I conducted research for the digital strategy team and worked with five other interns to devise a way in which Pfizer can use emerging channels of media and technology to better engage patients in their health.

What impacted me the most from my time at Pfizer was seeing firsthand the powerful role technology has in shaping patient health outcomes. From the use of wearable devices to monitor and communicate patient health information to the applications of machine learning in disease diagnosis and drug development, technology has become inseparable from health care. Specifically, my time at Pfizer has sparked my interest in data science and how analyzing increasingly massive amounts of health care data can help companies like Pfizer better understand and tailor life-changing treatments for patients.

This semester, I am taking a big data course and a machine learning MOOC (massive open online course). Moving forward, I hope to further explore this field, as well as other intersections between technology and health care.

WiTNY "winternships" celebration in New York City. Front row, from left: Winterns Aisha Khoja, Rosa Basevich, Maria Mahin, and Noorulain Paracha. Second row, from left: Pfizer winternship managers Chris Kakkanatt, Wendy Mayer (organizer), Desiree Cika, Jessica Lakeman, Kelly H. Zou, and Roshni Sacks.
Photo by Yolande Morris.

Lab tour at Pfizer in Cambridge, Massachusetts. From left: "Winterns" Maria Mahin, Rosa Basevich, Shin Ah Oh (research associate), Aisha Khoja, Christina Sarcone, Neeru Bhagirath, Noorulain Paracha, and Michelle Clasquin (lab tour guide). Photo by Kelly H. Zou.

MORE ONLINE
Read more about the winternship program at *http://bit.ly/WiTNYWinternship.*

Noorulain Paracha

Undergraduate Student, Macaulay Honors College at Brooklyn College

I am a sophomore in the Macaulay Honors Program at Brooklyn College. I am interested in combining my passion for medicine and technology. During this winternship, I was part of the Commercial Oncology Business Team. I had the ability to analyze the usability of an application and create usage cases for applications created for field representatives. Completing this task allowed me to witness how Pfizer uses technology on a daily basis to improve patient outcomes.

I was amazed to see the heavy importance placed on using data to determine what future steps needed to be taken by the company. From the different presentations we had on real-world data, I was shown the value of statistical analysis to understand the progress of a medication. Furthermore, as a group of interns, we focused on the opioid epidemic the United States faces. We created a model of an application that would help identify when a patient is at risk of addiction. This application would involve the use of machine learning that could determine how a patient may be affected by prescription opioids. By completing this project, we hoped to improve the quality of a patient's life and lessen this national problem.

Through my experience at Pfizer, I aspire to continue to learn about the role technology has in advancing health care.

Christina Sarcone

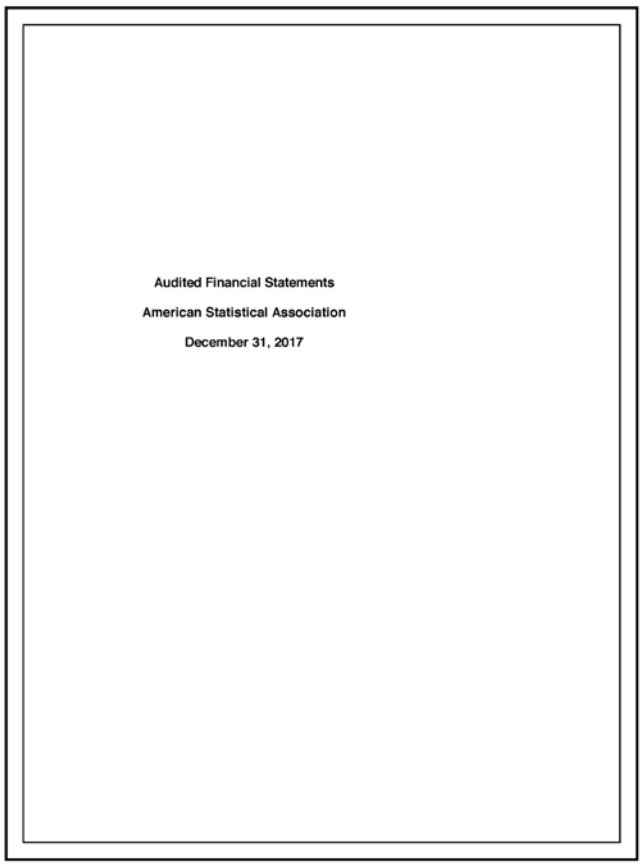
Undergraduate Student, The City College of New York

I am currently an undergraduate sophomore student at The City College of New York, pursuing a bachelor's degree in computer science with a pre-medical studies focus. I hope to pursue a career that will combine both interests of medicine and technology.

As a data analyst intern during the winternship, I quickly learned the importance of data science within the health care sector. I was exposed to different projects within the department, one in particular being a rerouting system for sales representatives to improve their operations. The exposure to said projects has shown me that although the headquarters is not a clinical setting, they are still able to improve the lives of others behind the scenes with the help of technology.

This opportunity was unlike any other I have experienced. I am grateful for the individuals who have dedicated their time to exposing me to the benefits and potential of data science. This internship at Pfizer has expanded my knowledge on technology within health care and proving that although data yields one result on the surface, it is the key to solving many other problems as well. ■

2017 Audit Report for the American Statistical Association



Audited Financial Statements

American Statistical Association

December 31, 2017

American Statistical Association

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2017 Audit Report for the American Statistical Association Continued

TATE & TRYON

Certified Public Accountants and Consultants

Independent Auditor's Report

To the Board of Directors
American Statistical Association

Report on the Financial Statements

We have audited the accompanying financial statements of American Statistical Association (the Association), which comprise the statements of financial position as of December 31, 2017, and 2016 and the related statements of activities and cash flows for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Association's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Association's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of American Statistical Association as of December 31, 2017 and 2016, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Tate & Tryon

Washington, DC
March 16, 2018

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American Statistical Association

Statements of Financial Position

December 31,	2017	2016
Assets		
Cash and cash equivalents	$ 314,414	$ 547,275
Investments	20,810,361	18,365,042
Accounts receivable, net	571,989	504,391
Prepaid expenses	201,716	190,994
Equity in joint venture	40,897	34,195
Property and equipment, net	6,755,595	7,107,461
Total assets	$ 28,694,972	$ 26,749,358
Liabilities and Net Assets		
Liabilities		
Accounts payable and accrued expenses	$ 937,097	$ 993,715
Due to joint venture	44,014	32,399
Deferred revenue	2,421,141	2,298,475
Bonds payable, net	3,934,437	4,252,269
Total liabilities	7,336,689	7,576,858
Net assets		
Unrestricted - undesignated	18,304,431	16,267,461
Unrestricted - board-designated	1,381,407	1,434,182
Total unrestricted net assets	19,685,838	17,701,643
Temporarily restricted	873,919	682,331
Permanently restricted	798,526	788,526
Total net assets	21,358,283	19,172,500
Total liabilities and net assets	$ 28,694,972	$ 26,749,358

American Statistical Association

Statements of Activities
Years Ended December 31, 2017 and 2016

	2017					2016				
	Unrestricted Undesignated	Unrestricted Board-Designated	Temporarily Restricted	Permanently Restricted	Total	Unrestricted Undesignated	Unrestricted Board-Designated	Temporarily Restricted	Permanently Restricted	Total
Operating Activities										
Revenue and Support										
Meetings	$ 3,698,589	$ -	$ -	$ -	$ 3,698,589	$ 4,095,818	$ -	$ -	$ -	$ 4,095,818
Membership	2,131,415	-	-	-	2,131,415	2,207,117	-	-	-	2,207,117
Publications	1,805,413	-	-	-	1,805,413	1,775,923	-	-	-	1,775,923
Programs	676,798	-	83,693	10,000	770,491	638,123	-	82,693	1,500	722,316
Section income	58,391	643,677	-	-	702,068	74,526	631,435	-	-	705,961
Education	392,873	3,498	-	-	396,371	445,295	4,062	-	-	449,357
Administration	610,194	-	-	-	610,194	744,531	-	-	-	744,531
Grants and awards	341,175	-	-	-	341,175	261,788	-	-	-	261,788
Net assets released from restrictions	41,457	-	(41,457)	-	-	58,533	-	(58,533)	-	-
Total operating revenue and support	9,756,305	647,175	42,236	10,000	10,455,716	10,301,854	635,497	24,160	1,500	10,962,811
Expense										
Program Services										
Meetings	2,488,936	-	-	-	2,488,936	2,740,742	-	-	-	2,740,742
Membership	961,167	-	-	-	961,167	851,208	-	-	-	851,208
Publications	1,178,067	4,179	-	-	1,182,246	1,184,692	-	-	-	1,184,692
Programs	2,261,933	-	-	-	2,261,933	2,182,485	-	-	-	2,182,485
Section expenses	104,504	683,081	-	-	787,585	83,437	617,361	-	-	700,798
Education	531,660	12,690	-	-	544,350	471,560	15,258	-	-	486,818
Grants and awards	333,780	-	-	-	333,780	251,586	-	-	-	251,586
Total program services	7,860,047	699,950	-	-	8,559,997	7,765,710	632,619	-	-	8,398,329
Supporting services										
Management and general	1,385,983	-	-	-	1,385,983	1,343,460	-	-	-	1,343,460
Fundraising	221,525	-	-	-	221,525	212,837	-	-	-	212,837
Total supporting services	1,607,508	-	-	-	1,607,508	1,556,297	-	-	-	1,556,297
Total expense	9,467,555	699,950	-	-	10,167,505	9,322,007	632,619	-	-	9,954,626
Change in net assets from operating activities	288,750	(52,775)	42,236	10,000	288,211	979,847	2,878	24,160	1,500	1,008,185
Nonoperating Activities										
Unrealized gains on investments	1,748,220	-	149,352	-	1,897,572	557,546	-	50,716	-	608,262
Change in net assets	2,036,970	(52,775)	191,588	10,000	2,185,783	1,537,193	2,878	74,876	1,500	1,616,447
Net assets, beginning of year	16,267,461	1,434,182	682,331	788,526	19,172,500	14,730,268	1,431,304	607,455	787,026	17,556,053
Net assets, end of year	$ 18,304,431	$ 1,381,407	$ 873,919	$ 798,526	$ 21,358,283	$ 16,267,461	$ 1,434,182	$ 682,331	$ 788,526	$ 19,172,500

2017 Audit Report for the American Statistical Association Continued

American Statistical Association

Statements of Cash Flows

Year Ended December 31,	2017	2016
Cash flows from operating activities		
Change in net assets	$ 2,185,783	$ 1,616,447
Adjustments to reconcile change in net assets to net cash provided by operating activities:		
Depreciation and amortization	399,308	339,181
Amortization of bond issuance costs	6,637	6,637
Change in allowance for doubtful receivables	-	(10,548)
Equity in earnings from joint venture	(40,897)	(34,195)
Contributions restricted for investment in perpetuity	(10,000)	(1,500)
Unrealized and realized gains on investments	(2,245,056)	(1,132,669)
Changes in assets and liabilities:		
Accounts receivable	(67,598)	153,581
Prepaid expenses	(10,722)	165,105
Accounts payable and accrued expenses	(56,618)	116,944
Deferred revenue	122,666	83,995
Total adjustments	(1,902,280)	(313,469)
Net cash provided by operating activities	283,503	1,302,978
Cash Flows From Investing Activities		
Purchases of investments	6,375,431	(3,761,836)
Proceeds from sale of investments	(6,575,694)	2,936,866
Purchases of property and equipment	(47,442)	(230,747)
Net cash used in investing activities	(247,705)	(1,055,717)
Cash Flows From Financing Activities		
Principal payment on bonds payable	(324,469)	(315,678)
Principal payments on capital lease	-	(26,050)
Contributions restricted for investment in perpetuity	10,000	1,500
Equity distribution from joint venture	34,195	68,474
Due to joint venture	11,615	(62,644)
Net cash used in financing activities	(268,659)	(334,398)
Net (decrease) in cash and cash equivalents	(232,861)	(87,137)
Cash and cash equivalents, beginning of year	547,275	634,412
Cash and cash equivalents, end of year	$ 314,414	$ 547,275
Supplemental disclosure of cash flow information:		
Income taxes paid	$ 60,150	$ 100,700
Interest paid	$ 115,777	$ 125,060

See accompanying notes to the financial statements.

American Statistical Association

Notes to Financial Statements

A. Organization and Summary of Significant Accounting Policies

Organization: The American Statistical Association (the Association) was founded in 1839 and incorporated in 1841 under the not-for-profit laws of the Commonwealth of Massachusetts as a professional association serving statisticians and all individuals interested in the study and/or application of statistics. The Association's objectives are to foster statistics and its applications, to promote unity and effectiveness of effort among all concerned with statistical problems, and to increase the contribution of statistics to human welfare. The Association conducts meetings, produces publications devoted to statistical methodology and its applications, makes available information concerning the science of statistics and its contributions, cooperates with organizations in the advancement of statistics, stimulates research, promotes high professional standards and integrity in the application of statistics to problems of science and of public policy, fosters education in statistics, and, in general, makes statistics of service to science and society.

Basis of presentation: The Association is required to report information regarding its financial position and activities according to three classes of net assets: unrestricted net assets, temporarily restricted net assets, and permanently restricted net assets.

Basis of accounting: The financial statements are prepared on the accrual basis of accounting. Revenue is recognized when earned and expense when the obligation is incurred.

Use of estimates: The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Actual results could differ from estimates.

Cash and cash equivalents: For financial statement purposes, all highly-liquid investments with a maturity of three months or less at the time of purchase are considered to be cash equivalents, except for money market funds held in the investment portfolio. Cash and cash equivalents also include funds held in a bank account on behalf of a joint venture.

Accounts receivable: Accounts receivable consist of amounts due from the sale of subscriptions, publications, and conferences. Accounts receivable are presented net of an allowance for doubtful accounts. The allowance for doubtful accounts is provided based upon management's judgment, including such factors as prior collection history and type of receivable. As of December 31, 2017 and 2016, the allowance for doubtful accounts was $10,000. The Association writes-off receivables when they become uncollectible, and payments subsequently received on such receivables are credited to the allowance for doubtful accounts.

Equity in joint venture: The Association has an investment in a joint venture to produce a journal called Technometrics. The Association accounts for its investment using the equity method due to its lack of control over the joint venture. Under the equity method, the original investment is recorded at cost and adjusted by the Association's share of undistributed earnings or losses of the joint venture. Distributions of approximately $34,000 and $68,000 were received during the year ended December 31, 2017 and 2016, respectively.

American Statistical Association

Notes to Financial Statements

A. Organization and Summary of Significant Accounting Policies - Continued

Net assets: Net assets are classified as unrestricted, temporarily restricted, or permanently restricted based on the existence or absence of donor-imposed restrictions. A description of each net asset group is as follows:

Unrestricted, undesignated net assets: Net assets whose use is not restricted by donors or internally designated for other uses.

Unrestricted, board designated net assets: Board designated net assets consist of accumulated, unspent unrestricted funds to be used for various section activities and board approved projects.

Temporarily restricted net assets: Net assets subject to donor-imposed stipulations that may be met by actions of the Association and/or passage of time.

Permanently restricted net assets: Net assets subject to donor-imposed stipulations that are to be maintained permanently by the Association. Generally, the donors of these assets permit the Association to use all or part of the income on related investments for general or specific purposes and prohibit the use of principal.

Revenue recognition: Membership dues are recognized ratably over the applicable membership period to which they apply. Payments for memberships, subscription sales, product sales, or services to be rendered and received in advance are deferred to the appropriate period

Publication revenue is recognized upon delivery of the material.

All donor-restricted revenue is reported as an increase in temporarily or permanently restricted net assets, depending on the nature of the restriction. When a restriction expires (that is, when a stipulated time restriction ends or purpose restriction is accomplished), temporarily restricted net assets are reclassified to unrestricted net assets and reported in the statements of activities as net assets released from restrictions.

Functional allocation of expenses: The costs of providing various programs and supporting services have been summarized on a functional basis in the statements of activities. Accordingly, certain costs have been allocated among the programs and supporting services benefited.

A description of the Association's programs and supporting services is as follows:

Meetings: The Association provides for various meetings and workshops that serve as a forum for the latest developments in statistical theory and application. These meetings offer a concentrated opportunity for the exchange of ideas and discussion of research findings among colleges.

Membership: Costs related to member service maintenance.

Publications: The Association produces various publications and magazines. These publications represent the Association's commitment to the ongoing enhancement of statistical education and the public's understanding of statistics.

Programs: Various projects undertaken to further statistics among the public. This includes expenses for various awards presented, which increase the visibility of statistics and its methods with the general public, including science policy, various statistical outreach programs, a public awareness campaign, and online job advertising for statistics positions.

American Statistical Association

Notes to Financial Statements

A. Organization and Summary of Significant Accounting Policies - Continued

Section expenses: Represent the Association's organization in groups by professional subject matter. These sections facilitate professional interchanges and research opportunities in statistics.

Education: The Association offers a wide range of continuing education opportunities, which represent a forum for emerging statistics research. These programs include workshops, lectures, and expenses related to the production and sale of educational materials. Additionally, the Association advocates and provides materials for statistics education at the K-12, community college undergraduate, and graduate levels, and provides leadership in the education community about statistics and data science.

Grants and awards: Represent expenses related to providing advice and technical assistance, which enhance statistical education through the support of federal, state, and local government agencies.

Management and general: Includes the functions necessary to secure proper administrative functioning of the Board of Directors, maintain an adequate working environment, and manage financial and budgetary responsibilities of the Association.

Fundraising: The expenditures associated with the Association's fundraising activities mainly consist of staff compensation and other costs associated with inducing potential donors to contribute to the Association's programs.

Income taxes: The Association is generally exempt from Federal income taxes under the provisions of Section 501(c)(3) of the Internal Revenue Code. In addition, the Association has been classified as an organization that is not a private foundation under Section 509(a)(2) of the Internal Revenue Code. However, the Association is required to report unrelated business income to the Internal Revenue Service and the state of Virginia, as well as pay certain other taxes to local jurisdictions. The Association incurred approximately $90,000 and $84,000 in income tax expense on unrelated business income related to net income earned on advertising sales for the years ended December 31, 2017 and 2016, respectively.

Measure of operations: The Association does not include unrealized gains and losses on investments in the change in net assets from operating activities.

Subsequent events: Subsequent events have been evaluated through March 16, 2018, which is the date the financial statements were available to be issued.

American Statistical Association

Notes to Financial Statements

B. Concentrations

Credit risk: The Association maintains demand deposits with commercial banks and money market funds with financial institutions. At times, certain balances held within these accounts may not be fully guaranteed or insured by the U.S. federal government. The uninsured portions of cash and money market accounts are backed solely by the assets of the underlying institution. As such, the failure of an underlying institution could result in financial loss to the Association.

Market value risk: The Association also invests funds in various marketable securities. Such investments are exposed to market and credit risks. Thus, the Association's investments may be subject to significant fluctuations in fair value. As a result, the investment balances reported in the accompanying financial statements may not be reflective of the portfolio's value during subsequent periods.

C. Investments and Fair Value Measurements

In accordance with generally accepted accounting principles, the Association uses the following prioritized input levels to measure fair value. The input levels used for valuing investments are not necessarily an indication of risk.

Level 1 – Observable inputs that reflect quoted prices for identical assets or liabilities in active markets, such as stock quotes;

Level 2 – Includes inputs other than level 1 that are directly or indirectly observable in the marketplace, such as yield curves or other market data;

Level 3 – Unobservable inputs which reflect the reporting entity's assessment of the assumptions that market participants would use in pricing the asset or liability, including assumptions about risk such as bid/ask spreads and liquidity discounts.

Investments valued using Level 1 inputs include mutual funds, the fair values for which were based on quoted prices for identical assets in active markets. Investments valued using Level 2 inputs include corporate and government bonds which were based on the fair values of the underlying investments as determined by the fund managers. Management believes the fund managers' estimates to be reasonable approximations of the fair value of the investments. Investments recorded at cost include money market funds. Investments at cost are not required to be classified in one of the levels prescribed by the fair value hierarchy.

The following is a summary of investments at December 31,:

	2017	2016
Investments, at fair value		
Mutual funds - equities (Level 1)	$ 12,963,640	$ 11,169,698
Mutual funds - fixed income (Level 1)	5,449,846	4,929,148
Corporate bonds (Level 2)	752,122	807,171
Government bonds (Level 2)	1,368,287	1,084,074
Investments, at cost		
Money market funds	276,466	374,951
	$ 20,810,361	$ 18,365,042

American Statistical Association

Notes to Financial Statements

C. Investments and Fair Value Measurements - Continued

Investment income, exclusive of amounts held in cash accounts, consists of the following for the years ended December 31,:

	2017	2016
Unrealized gain	$ 1,897,572	$ 608,262
Interest and dividends	424,720	392,224
Realized gain	347,484	524,407
Investment fees	(74,488)	(67,254)
	$ 2,595,288	$ 1,457,639

D. Property and Equipment

Property and equipment are stated at cost and depreciated on a straight-line basis over the estimated useful lives of the assets: 30 years for the building and improvements and 3 to 5 years for furniture and fixtures, equipment, and software. Equipment purchased through capital leases is amortized based on the straight-line method over the lesser of the estimated useful life of the equipment or the life of the lease. The Association capitalizes all property and equipment purchased with a cost of $5,000 or more.

Property and equipment consists of the following at December 31,:

	2017	2016
Building and improvements	$ 8,541,220	$ 8,514,420
Furniture and fixtures	211,869	211,869
Office equipment	202,772	202,772
Software	512,773	492,132
Computer equipment	166,321	166,321
Land	1,286,000	1,286,000
	10,920,955	10,873,514
Less: accumulated depreciation	(4,165,360)	(3,766,053)
	$ 6,755,595	$ 7,107,461

2017 Audit Report for the American Statistical Association Continued

E. Joint Venture

The following schedule presents summarized financial information from the joint venture Technometrics, in which the Association has a 60% equity ownership, as of and for the years ended December, 31:

	2017	2016
Condensed income statement information		
Revenues	$ 129,937	$ 120,555
Expenses	61,775	63,563
Net income	$ 68,162	$ 56,992
Condensed balance sheet information		
Total assets	$ 89,877	$ 73,431
Total liabilities	21,715	16,439
Net equity	$ 68,162	$ 56,992

The Association also has a maintenance agreement with the joint venture in which it provides management and collection services, office space, and editorial and administrative support. Amounts due to the joint venture as of December 31, 2017 and 2016 were $44,014 and $32,399, respectively. Maintenance agreement revenue earned by the Association was $32,785 and $33,194 for the years ended December 31, 2017 and 2016, respectively.

F. Bonds Payable

On August 1, 2005, the Association entered into an agreement with the Industrial Development Authority of the City of Alexandria to issue $6,500,000 of Industrial Development Revenue Bonds (the Bonds) on behalf of the Association to finance the purchase and renovation of a new headquarters building. During the year ended December 31, 2013, the Association refinanced its outstanding Industrial Development Revenue Bonds (the Bonds) that were due to mature on May 31, 2030. The Association paid the balance due on the Revenue Bonds and issued Revenue Refunding Bonds (the Bonds) for $5,396,000 with SunTrust Bank, the holder of the Bonds, which have a maturity date of August 1, 2030. The Bonds are callable on May 1, 2028, by the bondholder with 120 days' notice. Interest on the Bonds is calculated at a fixed rate of 2.75%. The Bonds are collateralized by the land and building owned by the Association. In connection with the Bonds, the Association must be in compliance with certain specified covenants.

Interest expense incurred for the years ended December 31, 2017 and 2016, was $115,777 and $125,060 respectively. Annual principal payments on the bonds at December 31, 2017, are due in future years as follows:

	Amount
2018	$ 333,506
2019	342,793
2020	352,340
2021	362,152
2022	372,238
2023 - 2028	2,240,544
	$ 4,003,573

F. Bonds Payable - Continued

Bonds are recorded on the statements of financial position net of the unamortized discount and debt issuance costs per the implementation of ASU 2015-03. Bonds Payable consist of the following as of December 31,:

	2017	2016
Principal Amount	$ 4,003,573	$ 4,328,042
Less: Unamortized Debt Issuance Costs	(69,136)	(75,773)
	$ 3,934,437	$ 4,252,269

G. Temporarily Restricted Net Assets

Temporarily restricted net assets were available at December 31, 2017, for the following purposes, and net assets were released from restriction by incurring expenses satisfying the restricted purpose as follows:

	Balance December 31, 2016	Restricted Contributions	Investment Income	Released	Balance December 31, 2017
Cox Scholarship	$ 138,189	$ 405	$ 19,446	$ (2,000)	$ 156,040
Waksberg Award	82,626	-	11,682	-	94,308
Youden Award	64,652	-	17,714	(1,000)	81,366
Deming Lecture Fund	44,439	-	15,706	(1,571)	58,574
EC Bryant Fund	40,325	-	14,027	(2,500)	51,852
Griffith Award	38,727	1,500	5,412	(2,198)	43,471
Noether Memorial Fund	37,370	-	33,944	(8,858)	62,456
Bernard Harris Fund	34,099	5,200	4,996	-	44,295
Wray Smith Scholarship Fund	33,614	-	4,690	(1,000)	37,304
Dixon Award	30,099	-	4,224	(500)	33,823
MG Natrella Scholarship Fund	29,119	-	4,049	(1,000)	32,168
Chambers Award (ACM)	20,840	-	2,884	(1,000)	22,729
Wilks Memorial Fund	16,832	-	9,046	(6)	25,872
Marquardt Memorial Fund	14,305	-	5,725	(1,000)	19,030
Karl E. Peace Award	12,825	-	6,554	(598)	18,821
Lester R. Curtin Award	10,830	-	4,909	(1,300)	14,439
Lingzi Lu Fund	8,427	-	6,864	(1,358)	13,932
Waller Fund	8,326	-	7,413	(2,000)	13,739
Aliaga Fund	6,911	-	81	(1,000)	5,992
Other short-term Funds	3,734	-	-	(1,632)	2,102
Sirken Award	3,514	-	21,389	(5,003)	19,898
Bartko Award	1,791	-	3,667	(1,000)	4,458
International Prize in Statistics	732	-	-	-	732
Judea Pearl Prize	-	10,000	-	(5,000)	5,000
Links Lecture	-	10,000	-	-	10,000
Student & Early Career Travel	-	1,598	-	-	1,598
	$ 682,391	$ 28,663	$ 204,982	$ (41,457)	$ 873,919

G. Temporarily Restricted Net Assets - Continued

Temporarily restricted net assets were available at December 31, 2016, for the following purposes, and net assets were released from restriction by incurring expenses satisfying the restricted purpose as follows:

	Balance December 31, 2015	Restricted Contributions	Investment Income	Released	Balance December 31, 2016
Cox Scholarship	$ 128,442	$ 654	$ 11,117	$ (2,024)	$ 138,189
Waksberg Award	77,890	-	6,796	(2,000)	82,626
Youden Award	55,559	-	10,143	(1,050)	64,652
Deming Lecture Fund	36,776	-	9,165	(3,502)	44,439
EC Bryant Fund	34,694	-	8,131	(2,500)	40,325
Griffith Award	34,071	3,750	3,041	(2,135)	38,727
Noether Memorial Fund	25,881	-	19,874	(8,385)	37,370
Bernard Harris Fund	31,158	200	2,741	-	34,099
Wray Smith Scholarship Fund	31,867	-	2,731	(1,014)	33,614
Dixon Award	28,199	-	2,431	(500)	30,099
MG Natrella Scholarship Fund	27,754	-	2,365	(1,000)	29,119
Chambers Award (ACM)	20,104	-	1,741	(1,000)	20,840
Wilks Memorial Fund	13,170	-	5,162	(1,500)	16,832
Marquardt Memorial	12,106	-	3,317	(1,120)	14,305
Karl E. Peace Award	10,123	-	3,792	(1,090)	12,825
Lester R. Curtin Award	9,160	-	2,845	(1,330)	10,830
Lingzi Lu Fund	5,817	-	3,910	(1,300)	8,427
Waller Fund	5,960	-	4,345	(2,000)	8,326
Aliaga Fund	6,824	-	587	(500)	6,911
Other short-term Funds	6,467	-	-	(4,733)	3,734
Sirken Award	-	-	12,485	(8,971)	3,514
Bartko Award	675	-	2,116	(1,000)	1,791
International Prize in Statistics	732	-	-	-	732
Judea Pearl Prize	-	10,000	-	(10,000)	-
	$ 607,455	$ 14,604	$ 119,805	$ (58,533)	$ 682,331

H. Endowment

The Association's endowment funds have been established for the purpose of awards and grants supporting education and research in the field of statistics. The Association's policies for making appropriations for expenditures are to follow the directives of the donors and to comply with the regulations in the state laws for endowments. Under accounting principles generally accepted in the United States of America, net assets associated with endowment funds are classified and reported based on the existence or absence of donor-imposed restrictions.

Though management of the Association has not conducted a formal analysis of its compliance with the Uniform Prudent Management of Institutional Funds Act (UPMIFA), it has established policies regarding the preservation, investment and expenditure of permanently restricted net assets. Consistent with generally accepted accounting principles management believes that permanently restricted funds require the preservation of the fair value of the gifts, and that earnings on those funds should be classified in accordance with the donor's stipulations, if any, as either temporarily restricted or unrestricted.

H. Endowment - Continued

In accordance with UPMIFA, the Association considers the following factors in making a determination to appropriate or accumulate donor-restricted funds: (1) duration and preservation of the fund; (2) purposes of the Association and the donor-restricted endowment fund; (3) general economic conditions; (4) possible effect of inflation and deflation; (5) expected total return from income and the appreciation or depreciation of investments; (6) other resources of the Association; (7) investment policies of the Association.

The Association has adopted investment and spending policies for endowment assets that attempt to provide a predictable stream of funding to programs supported by its endowment while seeking to maintain purchasing power of the endowment assets. All earnings of the endowment are reflected as temporarily restricted net assets until appropriated for expenditure based on donor restrictions by the various Committees of the Association. The Board of Directors has assigned a Committee to each program for the purposes of selecting and recommending individuals for awards or grants.

From time to time, the fair value of assets associated with individual donor-restricted endowment funds may fall below the level that the donor or UPMIFA requires the Association to retain as a fund of perpetual duration. In accordance with GAAP, deficiencies of this nature that are reported in unrestricted net assets were $0 and $3,890 as of December 31, 2017 and 2016, respectively.

Endowment net assets consisted of the following at December 31,:

	2017			
	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Noether Memorial Fund	$ -	$ 62,456	$ 206,506	$ 268,962
Sirken Award	-	19,898	150,000	169,898
Youden Award	-	81,366	61,082	142,448
Deming Lecture Fund	-	58,574	67,275	125,849
EC Bryant Fund	-	51,852	60,000	111,852
Wilks Memorial Fund	-	25,872	47,143	73,015
Waller Fund	-	13,739	45,000	58,739
Lingzi Lu Fund	-	13,932	41,270	55,202
Karl E. Peace Award	-	18,821	34,000	52,821
Marquardt Memorial Fund	-	19,030	26,250	45,280
Lester R. Curtin Award	-	14,439	25,000	39,439
Bartko Award	-	4,458	25,000	29,458
Links Lecture	-	10,000	10,000	20,000
	$ -	$ 394,437	$ 798,526	$ 1,192,963

H. Endowment - Continued

	2016			
	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Noether Memorial Fund	$ -	$ 37,370	$ 206,506	$ 243,876
Sirken Award	-	3,514	150,000	153,514
Deming Lecture Fund	-	44,439	67,275	111,714
Youden Award	-	64,652	61,082	125,734
EC Bryant Fund	-	40,325	60,000	100,325
Wilks Memorial Fund	-	16,832	47,143	63,975
Waller Fund	-	8,326	45,000	53,326
Lingzi Lu Fund	-	8,427	41,270	49,697
Karl E. Peace Award	-	12,825	34,000	46,825
Marquardt Memorial Fund	-	14,305	26,250	40,555
Lester R. Curtin Award	-	10,830	25,000	35,830
Bartko Award	-	1,791	25,000	26,791
	$ -	$ 263,636	$ 788,526	$ 1,052,162

For the years ended December 31, 2017 and 2016, the Association had the following endowment-related activities:

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Endowment assets, January 1, 2017	$ -	$ 263,636	$ 788,526	$1,052,162
Contributions	-	10,000	10,000	20,000
Net appreciation and income	-	146,958	-	146,958
Appropriation of endowment assets for expenditure	-	(26,157)	-	(26,157)
Endowment assets, December 31, 2017	$ -	$ 394,437	$ 798,526	$1,192,963

	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
Endowment assets, January 1, 2016	$ (3,890)	$ 211,978	$ 787,026	$ 995,114
Contributions	-	-	1,500	1,500
Net appreciation and income	-	85,285	-	85,285
Appropriation of endowment assets for expenditure	3,890	(33,627)	-	(29,737)
Endowment assets, December 31, 2016	$ -	$ 263,636	$ 788,526	$1,052,162

I. Retirement Plans

The Association has a 401(k) profit sharing plan and a money purchase plan. Both plans cover substantially all full-time employees from date of hire. Under the terms of the 401(k) profit sharing plan, the Association will match 100% of the participating employee's contributions, up to 3% of the employee's salary. Under the terms of the money purchase plan, the Association contributes 6% of an eligible employee's compensation to the plan. Contributions to the plans were as follows for the years ended December 31:

	2017	2016
Money purchase plan	$ 193,899	$ 201,000
401(k) profit sharing plan	94,147	92,430
	$ 288,046	$ 293,430

J. Commitments and Contingencies

Hotel space: The Association reserves hotel space for its conventions several years in advance. The contracts stipulate the number of rooms to be reserved and the time period for which they are to be reserved. As of the date of this report, contracts for hotel space had been entered into through 2023. However, due to the numerous variables involved, the Association's potential liability under these contracts cannot be determined.

Legal matters: From time to time, the Association may be subject to various legal proceedings, which are incidental to the ordinary course of business. In the opinion of management, there are no material legal proceedings to which the Association is a party.

Employment agreement: The Association has an employment agreement with its Executive Director, whereby, if the Association were to terminate the agreement without cause, the Association would be required to make certain payments to the Executive Director. The latest extension of the agreement is set to end in August 2021 unless further extended.

STAT*tr@k*

The Local ASA Chapter Is My Justice League

Scott McClintock earned his PhD in statistics from the University of Kentucky. He has spent the 10 years since teaching statistics at West Chester University. His research interests include statistical education and financial statistics. He is the current president of the ASA's Philadelphia Chapter.

I still recall a comic that emphasized the tragic childhood of Superman. After a hard day playing with his superdog, Krypto, a young, boyish Superman flies to the moon. Krypto is his best, in fact only, friend. He can only be himself with Krypto. He must hide his powers from everyone else to escape fear and persecution. He can't play sports with the other children because he might throw the football too hard and decapitate somebody. He can't make eye contact with a girl because he might accidentally incinerate her with his heat vision.

So, he sits on the moon instead.

And he gazes through the vast, empty, lonely depths of outer space. And he cries.

Of course, years later—after saving his beloved city dozens of times from tyrant dolphins and subterranean dinosaurillas and Friday the 13th—he finally discovers others like him. Wonder Woman! Batman! And everyone else! Through larger-than-life collaboration, they can tackle problems on a grander scale. Instead of helping old ladies cross the treacherous freeways of Metropolis, they instead are empowered to topple galactic dictatorships and fight world hunger and poverty. In their unity, they find increased productivity. And fulfillment.

And, best of all, friendship.

Surely some of us can relate? The lone statistics professor embedded within a mathematics department. The company's single statistician. Or those who are "part" of a one-person statistical consulting team.

It's easy to feel alone.

I was a bit like that young Superman when starting my own career. I was lucky enough to be the third statistician in my department, so loneliness was less of an issue. But I was myopic. And, perhaps this is something we might also be able to relate to, my entire statistical world for the first six years of my professional life was "The West Chester Math Building." Thankfully, my world view was immeasurably broadened when I discovered the ASA.

The ASA was my professional turning point. My Justice League. And, for the most part, when I talk about the ASA, I am referring to my local chapter, the Philadelphia Chapter. Through our chapter, I learned firsthand about the amazing educational work being done not just by "The West Chester Math Building," but by the dozens of surrounding colleges.

Through our chapter, I was humbled to learn about how our pharma colleagues are saving lives daily.

Through our chapter, I was astounded to learn about the

shrewd, innovative statistical techniques our financially oriented fellows use daily to keep our economy running smoothly.

Through our chapter, I've seen the amazing, altruistic work in artificial intelligence being done by statisticians who are not only high-level researchers, but also my neighbors. Work that is doubtlessly poised to change the world.

Most amazing of all, this is just the tip of the vast iceberg that is Philadelphia.

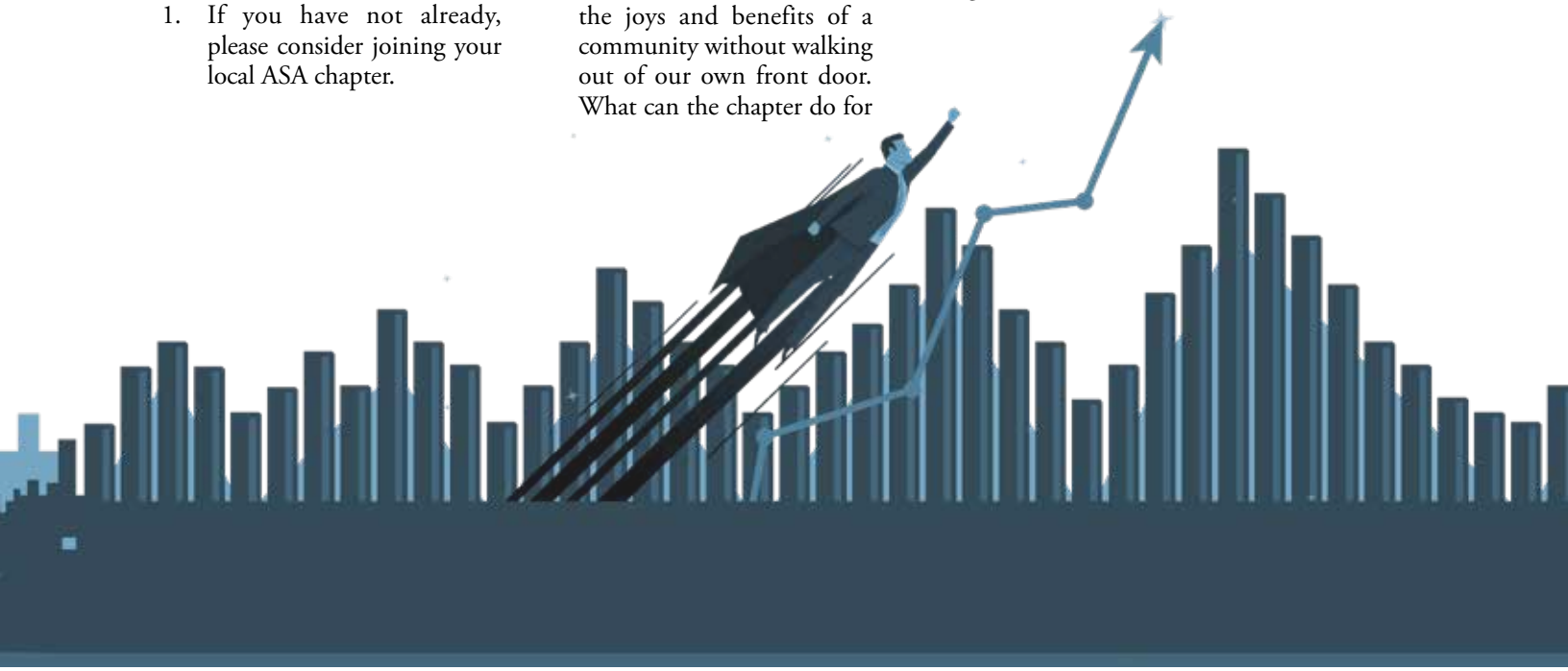
I wish I hadn't wasted those six years. I wish I could have discovered the ASA earlier in my career, much as—I would imagine—Superman wishes he could have met Batman and Wonder Woman on some toddler playdate. But! While it is too late for us as it is, it is never too late for you. And, with that in mind, I hope you will consider the following suggestions:

1. If you have not already, please consider joining your local ASA chapter.
2. If you have already joined, then please consider reaching out to those around you and encouraging them to also join. If you are a teacher/professor, consider advertising the ASA's astoundingly low (and perhaps financially irresponsible) student rates. Heck, consider asking your department or school to help pay for such memberships—if nothing else, through a raffle or data-thon. Ask professional colleagues to consider membership, as well. For those who are daunted by the nonstudent price tag of full-blown ASA membership, consider the possibility of chapter-only membership.
3. Consider reaching out to those who run your chapter. At the end of the day, we get out of life what we put into it, and we cannot discover the joys and benefits of a community without walking out of our own front door. What can the chapter do for you that would be personally meaningful? Even more importantly, in your discussions with colleagues who are not currently ASA members, ask them what the chapter might do that would make enrolling worthwhile for them. At the end of the day, your chapter is your chapter. And, despite being part of a vast, national organization, chapters still have the flexibility and freedom to be whatever we want them to be.

My hope as I started my tenure as chapter president was that we might find a way to unite, bringing together our unique powers and perspectives to best leverage our statistical super-heroism for the greater good.

Or, perhaps more humbly, to show the world our area has more to be proud of than sports teams and regional cuisine. ■

MORE ONLINE
Discover your local chapter at *http://bit.ly/ASAChapters*.



With a PhD in statistical astrophysics, **David Corliss** works in analytics architecture at Ford Motor Company while continuing astrophysics research on the side. He is the founder of Peace-Work, a volunteer cooperative of statisticians and data scientists providing analytic support for charitable groups and applying statistical methods to issue-driven advocacy in poverty, education, and social justice.

STATS4GOOD

The (Higher) Power of Data for Good

Data for Good volunteers can be found in many places and situations—at work, Data for Good organizations like Statistics without Borders, DataKind, and topic-driven organizations focused on a particular subject such as supporting a school. One area attracting volunteers for good causes are faith-based organizations. Obviously, Data for Good brings in people across the spectrum—from entirely secular to religiously motivated, from every faith and none. For those connected to a faith-based group in some way, Data for Good volunteers can be an invaluable resource.

Many faith-based groups have turned to statistics and data science as critical components of achieving their mission of serving people and the community. Identifying drivers of poverty and homelessness, survey design and analysis, models to improve the effectiveness of refugee programs, discrimination and injustice research, and data-driven guidance for reform initiatives such as prisons and sentencing are a few examples of how faith-based groups are using statistical volunteers today. The most common use of statistics, however, is in operations research for the organization itself—surveys to understand the needs and interests of members, increasing membership and fundraising, and optimizing the use of space and other resources.

A great example of what can be done at a local level can be found at a synagogue in Chicago, Congregation Rodfei Zedek. Located near The University of Chicago and with many people having analytic experience in the congregation, Rodfei Zedek has formed its own informatics committee. Led by congregation member and statistician Andrea Frazier, the team's goals include building stronger relationships and fostering data-driven decision-making.

An important analytic use case for any membership organization is … membership! The informatics committee at Rodfei Zedek needs to track both individual and group memberships—classes and activities, households, and

larger family associations. The informatics team digitized all the records, cleaned the data, established variables for various group memberships, and flagged special skills—for example, informatics! All members are matched to roles in which they possess the requisite skills to broaden the number of people participating. This database has resulted in more efficient program management, improved program participation, and better use of member resources.

The informatics team also evaluates programs. Surveys are conducted using one of the common online survey tools and the data analyzed and visualizations created to better understand how people feel about programs. Analysis produces data-driven insights to guide improvements. Predictive modeling is used to understand the key factors driving member engagement and estimate the attendance to be expected for a given event. Events can be selected based of the level of interest within the group and planned with clear expectations of the amount of participation. An event that will attract dozens or more can be placed in a larger room and more volunteers recruited to support it.

As people involved with charity management will be familiar, some important activities will attract just a handful of people. Predictive analytics can direct these toward smaller meeting rooms, or even other locations such as people's homes.

Many important religious celebrations occur on different days in the civil calendar each year. Easter, for example, falls on the Sunday after the first full moon in spring, while Diwali falls on the new moon in the period from late October to early November.

Predictive analytics can describe the interaction of these "moveable feasts" with the civil calendar based on day of the week and other events. Analytics predicting attendance—and therefore required resources—can also address over-crowded holiday periods. Predictive analytics can support an answer to those who want to push one more event into an already over-crowded holiday period by giving solid estimates of the number of volunteers required and how many people will be able to participate.

Statistical science can analyze and identify the challenges facing the wider community, enabling closer partnerships and helping to address the sadly common issue of congregations that have grown away from their surrounding community. Frazier emphasizes the diverse purposes Data for Good can serve, which can be used "to save the world, but it's also valuable for enhancing your own community…. It's a great tool for the greater good!"

Once an informatics team is developed, it can take on challenges well beyond the walls of the congregation. Assessing the needs of the community, fighting poverty and homelessness, supporting local schools—almost any objective of the community groups you are active in can be helped by a Data for Good team.

While the Rodfei Zedek informatics team was developed to use the analytic resources available within a particular community of faith, the model can be applied to many kinds of organizations. School support groups, service organizations (e.g., Rotary, Kiwanis, etc.), alumni organizations, and many more can benefit. As long as there is a large group of people, especially where there are many professions, there is likely to be a subset with the analytic and data skills needed to form an informatics team.

Does your community, civic, faith-based, or other organization use statistics and data science for projects in your community? Let us know! We are always looking for inspiring examples of Data for Good to feature in this column.

For new Data for Good opportunities this month, consider having a look at Statistics without Borders (*http://bit.ly/2wSa5bW*). It's a great organization with many wonderful opportunities to work in Data for Good. Also, Peace-Work is looking for people interested in homelessness solutions to study the Utah program that has reduced homelessness there by 91% in recent years and perform economic analysis of the feasibility of doing the same in the investigator's home state. You can contact them at *www.peace-work.org*. ■

PASTIMES OF STATISTICIANS

What Does Steve Ascher Like to Do When He Is Not Being a Statistician?

Steve Ascher

Who are you, and what is your statistics position?

I am Steve Ascher, 2017 president of the ASA New Jersey Chapter. I was vice president in 2011 and 2012, president in 2013 and 2014, and president in 2016 and 2017. I've been an ASA member for more than 40 years. I retired from Johnson & Johnson in May of 2016 after nearly 40 years as a professional statistician (five years teaching at Temple University, seven years at two contract research organizations, and 26 years for J&J). My last position at J&J was as senior director, managing a phase 4 statistics group.

Tell us about what you like to do for fun when you are not being a statistician.

I have many hobbies that keep me busy (baseball memorabilia, coins, Beatles). A relatively new one, compared to those mentioned above, is horse show announcing. Riders compete in various disciplines at shows and the announcer—in concert with the judge and in-gate person—is responsible for letting the judge know who is in the ring for what is called the "over fences classes" (i.e., riders individually negotiate a series of eight jumps in a specific order).

I would say, "Now in the ring is number 121, Bonnie Ascher riding Chance Encounter." (Bonnie, my daughter, did ride a horse called Chance Encounter. She is now an equine veterinarian.)

In what is called the under-saddle class, where all the riders are in the ring together, the announcer on cue from the judge tells the riders what to do. For example, when the judge says, "Walk to me," I then announce, "All riders are being judged at the walk; all walk please." When the judge has the results, they are given to me and I will announce, "First place and our congratulations go to number 121 Bonnie Ascher, riding Chance Encounter."

Steve Asher calls at a recent horse show.

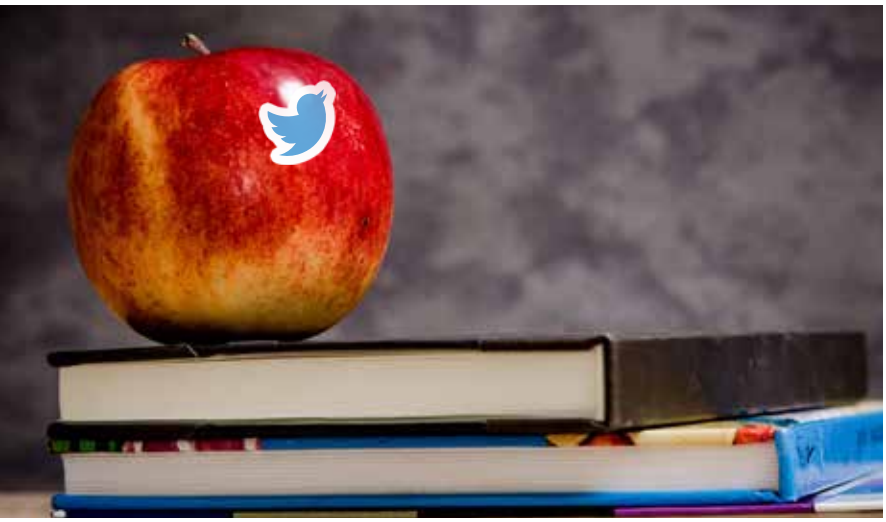
In a different category, called show jumping, horses enter the ring one at a time and negotiate a set course of jumps. In show jumping, there is no subjectivity, as horses receive four faults for each jump rail knocked down and time faults if they go over the allotted course time. The object is to get zero faults. My announcing in this competition also lets the judge know who is in the ring and then to announce the total faults for each rider as they complete the round. I then announce the final results.

Being behind the microphone gives me the opportunity to express myself in ways my friends and family would not necessarily recognize! I try to make it exciting for the riders and spectators. In some larger events, I am provided with Olympic-style music, which I play as background while I announce the results. It lends a majestic air to the event!

What drew you to this hobby, and what keeps you interested?

I was originally drawn to announcing when the regular announcer at the barn where my daughter rode was not available. I filled in and have been doing it ever since. This was a way to help at our barn (no pay) and keep me involved in the horse show beyond watching my daughter compete. Now that I am retired, I announce at several area shows and actually get paid for it!

Sitting next to judges has given me a new appreciation for how difficult the sport is. It also gives me the opportunity to watch a sport I love up close and personal. I plan to increase my horse show announcing career! ■



Academic Twitter – Statistics Education

Many academics and fields use Twitter as a professional resource. As we all know, statistics education is a field filled with great ideas and wonderful people from all over the world. However, searches for posts relating to statistics education return few results, indicating a lack of presence of our field on Twitter. The information below should help academics and professionals who work at the intersections of statistics, education, and teaching to create and use Twitter accounts to help develop an active, informative social media network.

Definitions

- **Microblogging:** Activity or practice of making short, frequent posts to a microblog (e.g., Twitter).
- **Hashtag:** A word or phrase preceded by a hash or pound sign (#) and used to identify messages about a specific topic.
- **List:** A curated group of Twitter accounts. You can create your own lists or subscribe to lists created by others. Viewing a list timeline will show you a stream of Tweets from only the accounts on that list.
- **Follow:** Following another user means that all their tweets will appear in your feed.

Uses of Twitter for Academics

- **Build/maintain professional networks:** *during conferences; information sharing; literature recommendations; learn about academic/professional opportunities; career advice; microblogging*
- **Advertise:** *research; events; publications; other updates*
- **Increase visibility:** *individual; field*

Academic Twitter Resources

- Using Twitter in Academia (*http://bit.ly/2IR7KTt*)
- Using Twitter in University Research, Teaching, and Impact Activities: A Guide for Academics and Researchers (*http://bit.ly/2IusJrQ*)
- 10 Commandments of Twitter for Academics (*http://bit.ly/2IOwR9q*)
- Twitter Glossary (*https://help.twitter.com/en/glossary*)

Twitter Accounts to Follow

- **@AmstatNews**
  American Statistical Association
- **@RoyalStatSoc**
  Royal Statistical Society
- **@CAUSEweb**
  Consortium for the Advancement of Undergraduate Statistics Education
- **@NCTM**
  National Council of Teachers of Mathematics
- **@IntCSE**
  International Centre for Statistical Education
- **@ThisisStats**
  ASA project to raise awareness of careers in statistics
- **@signmagazine**
  Statistics magazine and website by the Royal Statistics Society and ASA
- **@DrSteveFoti**
  Me

Common Abbreviations

Since a tweet is limited to 140 characters, abbreviations are used to replace commonly used phrases. This is a list of frequently used abbreviations, but you will likely encounter many more. Use your favorite search engine if you need help decoding one.

RT: retweet
MT: modified tweet
FWIW: for what it's worth
BTW: by the way
IMO: in my opinion ■

RELEVANT HASHTAGS

#statistics
#statistician
#StatEd
#StatisticsEducation
#statliteracy
#biostatistics
#BiostatEd
#data
#dataliteracy
#JSM2018
#DataScience
#rstats
#NoticeWonder

ABOUT THE AUTHOR
Steven Foti is a clinical assistant professor in the department of biostatistics and the director of the online MS program at the University of Florida. He earned his PhD in statistics education and his MS in statistics from the University of Florida, while earning his BS in applied mathematics and statistics and physics from Clarkson University. He teaches biostatistics courses to both undergraduate and graduate students in public health and medicine. Follow Foti on Twitter *@DrSteveFoti*.

Come to WSDS

for Interaction, Knowledge, Community, Inspiration

Not to Be Missed

KEYNOTE

Nancy Potok
Chief Statistician of the United States, US Office of Management and Budget

PLENARIES

Aarti Shah
Senior Vice President, Information Technology, and Chief Information Officer, Eli Lilly & Co.

Claudia Perlich
Senior Data Scientist, Two Sigma

Alicia Carriquiry
Distinguished Professor of Statistics, Iowa State University

SHORT COURSES

Mine Çetinkaya-Rundel
Associate Professor, Department of Statistics, Duke University, and Data Scientist and Professional Educator, RStudio

Shanthi Sethuraman
Senior Director Global Statistical Sciences, Eli Lilly & Co.

The Women in Statistics and Data Science conference has become one of the ASA's most popular and positive conferences. Last year's WSDS welcomed more than 450 attendees, sponsors, and exhibitors. This fall's conference should be on your list of must-attend events.

Women in Statistics and Data Science will take place this October in Cincinnati, Ohio. When we convene, we will gather professionals and students from academia, industry, and the government who are working in statistics and data science. WSDS offers unique opportunities to grow your influence, your community, and your knowledge, but—more importantly—to interact with other leading women in the field.

With a wide range of content—including engaging plenaries, poster sessions, short courses, and concurrent sessions about managing family-work balance, cutting-edge advances, and growing in your career—each attendee

Women in Statistics and Data Science | conference
October 18-20, 2018

will find enriching material to help them at any stage.

Leaders from academia, industry, and government will come together to present a world-class experience for attendees, from student and postgraduates to seasoned professionals. Aarti Shaah of Eli Lilly, Claudia Perlich of Dstillery/NYU, and Alicia Carriquiry from Iowa State will give plenary talks. The technical content will again be top notch, but what sets this conference apart is the hands-on, warm, and engaging environment that proves particularly conducive to learning and growing in both professional and personal ways.

What do attendees say about WSDS? They call the meeting welcoming, inspiring, empowering, motivating, eye opening, and awesome!

Mark October 18–20 on your calendar and learn more by visiting *www.amstat.org/wsds*. ■

MORE ONLINE
Visit @AmstatNews on Periscope to view previous talks: *http://bit.ly/AmStatTalks.*

Ann-Marie Akiwumi

Sherry Chi Wen

Regina Nuzzo

TWITTER HIGHLIGHTS
from WSDS 2017

Emma Benn @EKTBenn
"Never make a decision in the heat of the moment"–Great advice from #WSDS2017 networking & peer mentoring junior #statistician panel

Christina @canoodleson
Find a mentor who scares you just a little bit." Dr. Jo Hardin #WSDS2017

Isabella R. Ghement @IsabellaGhement
Kindness matters in the good times and especially in bad times.' Dr. Anja Panorska at #WSDS2017

Tawny B. @tawnypaige10
#WSDS2017 Tip: Never say "oh that's be easy" it devalues our work #teamscience.

Lucy @LucyStats
Jeri Mulrow demonstrates that statisticians & data scientists are quite well-suited for leading change. #WSDS2017.

Jennifer Thompson @StatGirlAM My job is not to make mentees be like "me"; it's to make them be the best X they can be.

Jennifer Thompson @jent103
#WSDS2017 = the friendliest, most welcoming conference I've attended. Thanks to the organizers, and to attendees for sharing your work & selves!

Throughout the 2017 Women in Statistics and Data Science Conference (WSDS), we asked attendees to describe in a word or two—or 12—what WSDS means to them. Visit the ASA's Facebook page at *https://goo.gl/gMvK4j* to view their answers.

Workshop Features Talk on Seasonal Adjustment in Identifying, Forecasting Economic Activity

The second Seasonal Adjustment Practitioners Workshop was held April 26 in the Janet Norwood Conference and Training Center at the Bureau of Labor Statistics. This one-day workshop emphasized practical problem-solving in seasonal adjustment and related time series methods. More than 65 people attended.

Many of the workshop attendees mentioned they were grateful for the topical forum and emerging network of experts in the area. The workshop was jointly sponsored by the Government Statistics Section (GSS), Business and Economic Statistics Section (B&E), and Washington Statistical Society (WSS). This shared sponsorship directly supports the ASA Strategic Plan theme to "ensure the future of our profession" via "organizational leadership development."

The program featured opening remarks by **Brian Monsell**, representing the workshop organizers. **Jenny Thompson** (GSS and WSS) and **John Abowd** (B&E) made a few additional welcoming remarks, emphasizing the ASA's support in general and the sections' support in particular.

Ataman Ozyildirim of The Conference Board gave the keynote address. His presentation, "To Adjust or Not to Adjust: A User's Perspective on Analysis of Economic Trends with Seasonal Data," covered the benefits and limitations of seasonal adjustment in identifying and forecasting economic activity.

Brent Moulton, recently retired from the Bureau of Economic Analysis, followed as discussant, highlighting issues such as residual seasonality—a concern that fosters continuing research.

The workshop then broke out into concurrent sessions. The speakers for the 18 presentations came from four countries and represented the private sector and the realm of official statistics, including three US government agencies.

Papers and presentations from the workshop will be available through the GSS.

Planning is underway for a third workshop in late 2019. To be involved in planning and organizing, contact the team at *esmd.seasonal.workshop@census.gov*. ■

Two Selected for Natrella Scholarship

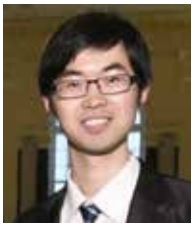
Will Guthrie, Natrella Scholarship Selection Committee Chair

The Quality and Productivity Section will award Mary G. and Joseph Natrella scholarships to **Anh Bui**, a PhD candidate in industrial engineering and management sciences at Northwestern University, and **Xiaowei Yue**, a PhD candidate in the department of industrial and systems engineering at the Georgia Institute of Technology, during the 2018 Joint Research Conference on Statistics in Quality, Industry, and Technology, which will be held June 11–14 in Santa Fe, New Mexico.

Both Bui and Yue will give a research presentation at the conference and receive a $3,500 scholarship, plus $500 for travel expenses and complimentary registration for the conference and pre-conference short course.

Bui was recommended for the award by Daniel W. Apley of Northwestern University and Chi-Hyuck Jun of Pohang University of Science and Technology in Pohang, South Korea. His presentation at the conference is titled, "Monitoring Stochastic Textured Surfaces."

Bui



Yue

Yue was recommended for the award by Jianjun Shi and Chuck Zhang of Georgia Institute of Technology. The title of his presentation is "Engineering-Driven Data Analytics for Quality Improvement."

The winners were chosen for their outstanding teaching, community service, mentoring, leadership, scholarship, and commitment to the pursuit of quality improvement through the use of statistical methods.■

HAVE YOU MOVED?

Log in to your ASA account and update your address at *https://goo.gl/SMJvXh.*

Statistics Association Presidents Establish Elizabeth L. Scott, F.N. David Lectureships

Amanda L. Golbeck

The Committee of Presidents of Statistical Societies (COPSS) announced in April the establishment of two lectureships named after women: The Elizabeth L. Scott Lecture and the F.N. David Lecture. The lectures will be given in alternate years at the annual Joint Statistical Meetings beginning in 2019.

This will be the first time JSM, which has been held annually since 1840, will have lectures named after women. JSM is the largest gathering of statisticians in North American and one of the largest in the world. Each year, there are more than 6,000 participants from more than 50 countries.

The Elizabeth L. Scott Lecture and F.N. David Lecture will be included in the COPSS portfolio, which already includes the Fisher Lecture. According to Nick Horton, chair of COPSS, "One of the main tasks for COPSS involves granting awards that highlight the work of notable statisticians. I'm proud that starting in 2019, at least one of the lectures at the JSM will be named after a woman. This is long overdue."

The Caucus for Women in Statistics (CWS) spearheaded the effort to establish the lectureships. Horton reported the COPSS Executive Committee voted unanimously to approve the CWS proposal. CWS partnered with the ASA LGBT Concerns Committee, ASA Committee on Women in Statistics, Statistical Society of Canada Committee on Women, International Statistical Institute Committee on Women, and International Biometric Society ENAR/WNAR.

The idea that too few women receive national recognitions for their research and scholarship is not new. The National Science Foundation in 2010 established an AWARDS project "to investigate and improve the process of granting awards and prizes for scholarly achievement" in disciplines like statistics. This project led to many association reforms.

Establishing a new named lecture slot at JSM for the Scott and David lectures is another significant step forward in advancing the statistics profession. It adds a face to the profession's ongoing and growing commitment to diversity and inclusion. 2018 CWS President Shili Lin remarked, "I'm so excited and grateful that the long overdue recognitions for women in statistics in the form of two named lectures are finally here, and here to stay!"

The first lecture will be the F.N. David Lecture. It will be given at JSM 2019 in Denver, Colorado, from July 27 to August 1. ASA Committee on Women in Statistics Chair Kimberly Sellers said, "Already looking forward to JSM 2019!"

For more information about the lectureships, contact Lin at *shili@stat.osu.edu*. ■

ElizabethScott

F.N. David

Ann Arbor, Detroit Chapters Judge 2018 Michigan Science and Engineering Fair

Karry Roberts, Detroit Chapter Secretary

From left: ASA judges Karry Roberts, Rob Kushler, Nicholas Moloci, Xianggui (Harvey) Qu, and David Corliss with their Award of Excellence poster.

From left: ASA judges Mary Ann Ritter and Anamaria Kazanis, District 3 Vice Chair

Promoting statistical analysis in high-school science projects, members of the Detroit and Ann Arbor Chapters enjoyed being professional awards judges at the Michigan Science and Engineering Fair (MSEF). This was the chapters' second year at the state level, extending a tradition the two chapters have maintained for many years at the regional level.

The team of seven judges for the statistical special awards included Anamaria Kazanis, District 3 Vice Chair; Karry Roberts, David Corliss, Xianggui (Harvey) Qu, and Rob Kushler from the Detroit Chapter; and Mary Ann Ritter and Nicholas Moloci from the Ann Arbor Chapter.

The MSEF displays the best high-school–level posters from the regional science fairs throughout the state. The fair was held at Kettering University in Flint, Michigan, on Saturday, April 7. Winners in various science categories at this fair go on to the Intel International Science and Engineering Fair (ISEF) in Pittsburgh.

This year, the MSEF had a total of 50 posters. At each poster, the student was present, giving judges the opportunity to interview him or her and learn about their scientific approach. Initially, the judges worked in review teams, but, later, all seven reviewed the best posters to determine the higher awards.

At the end of the event, the judges kicked off the awards ceremony by calling all certificate and award winners onto the stage, where they encouraged the students to take statistical courses to ensure proper statistical analysis of their data for all college majors.

Award Winners

One $200 Award of Excellence

- "The Effects of Commercial Pesticides Upon *Vanessa cardui*" by Mallory Snyder from Saginaw Arts and Sciences Academy

Five $50 Awards of Merit

- "The Effects of Boron Compounds on Amyloid-beta 42 Plaque Aggregation" by Zaid Haque, Saginaw Arts and Sciences Academy

ASA professional awards winners on stage at Kettering University
Photos courtesy of Karry Roberts, Mary Ann Ritter, and Tim Fino

- "Genome-Wide Analysis of Histone Modifications in *Saccharomyces cerevisiae*" by Rohit Mital from Indus Center for Academic Excellence
- "Effectiveness of Homemade Activated Carbon Water Filter in Removing Pollutants" by Neha Narayan, an independent high-school student
- "Econometric Model of USGDP Through Artificial Neural Networks" by Shivan Prasad from Detroit Country Day Upper School
- "Quantifying the Effects of Novel Mutations in Putative T2D Regulatory Loci" by Collin Wang from Detroit Country Day Upper School

Nine Recognition Certificates

The following students received recognition certificates:

- Sai Anantapantula
- Melissa Beyrand
- Maria Fields
- Jared Freeman
- Samuel Maher
- Bhuvna Murthy
- Vihaar Nandigala
- Salena Prakah-Asante
- Akash Rathod

Students at all award levels received certificates and a copy of *Significance* magazine. The Detroit Chapter obtained reimbursement from the ASA Chapter Stimulus Funds for their contribution to this activity, which covered much of the award expenses. The Ann Arbor Chapter also contributed to the awards.

Eight of the ASA Professional Awards winners were recognized with MSEF category awards. One of these students was Samuel Maher, who received a recognition certificate and will be attending the ISEF as a MSEF Grand Award recipient. ■

sectionnews

Quality and Productivity

Q&P Initiates Mentoring Program

The Q&P Section is pleased to introduce a mentoring program for its members. The goal of this initiative is to help members enrich and enhance their professional experience through achieving personal and professional goals. The program's specific goals are to connect those wanting mentoring with those wanting to mentor and to facilitate those interactions.

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

The program committee will facilitate face-to-face meetings between matched mentors and mentees at JSM 2018, but attendance is not necessary. Other interactions may take place either in person or via electronic means, depending on the mentor and mentee's preferences.

If you are interested in participating in the mentoring program, complete one of the forms below by June 30. The program committee will make every effort to find a suitable match for all applicants and notify applicants of the outcome by July 15.

Do you want to be a mentee? Go to *https://goo.gl/forms/OsovCR3IgNxRP7yh1*.

Do you want to be a mentor? Go to *http://bit.ly/QPMentoring*.

Otherwise, send an email to Reid Landes at *rdlandes@uams.edu* to receive the form.

For additional information regarding the program, visit *http://community.amstat.org/qp/home* or contact Daksha Chokshi at *daksha.chokshi@rocket.com* or Landes. ■

Statistics in Epidemiology

The Section on Statistics in Epidemiology (SIE) grants annual Young Investigator awards to new researchers for the best papers in statistics in epidemiology presented at JSM. Among the Young Investigator Award winners, the Breslow Award further recognizes the top paper.

The section presents the 2018 Young Investigator awards to the following individuals:

- **Maria Cuellar**, Statistics, Carnegie Mellon University (Breslow Award Winner)
- **Parichoy Pal Choudhury**, Biostatistics, The Johns Hopkins University
- **Kwonsang Lee**, Biostatistics, Harvard University
- **Maya Mathur**, Biostatistics, Harvard University
- **Ran Tao**, Biostatistics, Vanderbilt University
- **Kai Yang**, Biostatistics, University of Florida

An awards ceremony will be held at this year's JSM in Vancouver on Tuesday, July 31, at 6:30 p.m. in recognition of the awardees. The ceremony will be followed by a joint mixer with the Mental Health Statistics Section. Visit the JSM online program at *http://bit.ly/JSMProgram2018* for an up-to-date location. ■

Survey Research Methods

The Proceedings of the Survey Research Methods Section (SRMS) from the 2017 Joint Statistical Meetings in Baltimore is now available at *http://bit.ly/JSM17Proceedings*. It also includes the 2017 Proceedings of the American Association for Public Opinion Research. What is new to this year's edition is that if a speaker has submitted the corresponding presentation to the ASA, the presentation can also be accessible at this proceedings website. We hope you find this helpful if you missed the presentations at JSM 2017. If you discover any error or missing paper, please contact the SRMS publication officer, Tony An, at *tony.an@sas.com*.

2018 Joint Statistical Meetings Update

Get ready for Vancouver! SRMS has put together a rich and exciting program. This year, SRMS sponsors one half-day short course, 11 invited sessions (including co-sponsored), one invited panel, 12 topic-contributed sessions, 10 contributed sessions, one poster session, three speed sessions, and two roundtable luncheon discussions.

In memory of the prominent survey statistician Alastair Scott, an invited session will be held on Thursday, August 2.

Everyone is encouraged to attend our annual SRMS business meeting at 6 p.m. on Wednesday, August 1. Several awards will be given at the meeting, including the joint SRMS/GSS/SSS student paper awards, whose papers are presented in a session on Monday, July 30.

Here is a preview of the SRMS lineup at JSM 2018.

- Half-day course (added fee event) on Tuesday, July 31: *Applications of Hot Deck Imputation Methods to Survey Data*, led by Rebecca Andridge of The Ohio

State University College of Public Health and Katherine Thompson of the US Census Bureau. This course will provide an introduction to the use of hot deck imputation with survey data. Attendees will be exposed to both the theoretical and practical sides to hot deck imputation and examples will be illustrated using both SAS and R.

The invited papers and panel sessions sponsored or co-sponsored by SRMS include the following:

- *Statistical Analysis of Linked Data*, Sunday, July 29
- *Improving Survey Data Quality with Machine Learning Techniques*, Tuesday, July 31
- *Inference with Clustered Data: Lessons from Multiple Disciplines*, Wednesday, August 1
- *In Memoriam: Alastair Scott*, Thursday, August 2
- *Administrative Records for Survey Methodology and Evidence Building*, Monday, July 30
- *Transparency, Reproducibility, and Replicability in Work with Social and Economic Data*, Sunday, July 29
- *Ethical Implication of the Failure of Anonymization*, Monday, July 30
- *Seeing the World as a Missing Data Problem: Celebrating 40 Years of Multiple Imputation*, Monday, July 30
- *The Potential for Web-Scraping in the Production of Official Statistics: An Opportunity for Statistics to Lead?*, Wednesday, August 1
- *Using Surveys to Improve the Representativeness of Nonprobability Samples in Epidemiologic Studies*, Wednesday, August 1
- *Prospects for Combining Survey and Administrative Data for Income Measurement*, Thursday, August 2
- *Current Federal Research on Improving Measurement of LGBT Populations*, Thursday, August 2

A great way to obtain a large amount of information about new research in a short period is to attend the speed sessions. A speed session assigns four minutes for oral presentation to each presenter. Then, presentations are displayed as electronic posters at a later time so attendees can learn more. The three SRMS contributed speed sessions this year are the following:

- *Missing Survey Data: Analysis, Imputation, Design and Prevention*
- *Innovations in Survey Sampling Designs: Administrative Data, Record Linkage, Non-Probability Samples, and More*
- *Applications of Advanced Statistical Techniques in Complex Survey Data Analysis: Small Area Estimation, Propensity Scores, Multilevel Models, and More*

Two roundtable luncheon discussions (added fee events) sponsored by SRMS are the following:

- *Adaptive Design: Challenges in Practice*, led by Michael Yang of NORC. He will share his experience implementing adaptive designs, explore practical adaptive design options, and discuss future research directions.
- *Non-Probability Sampling*, led by Karol Krotki of RTI International. He will discuss real-world examples of non-probability sampling and touch on the future role of this methodology in survey research.

The topic-contributed sessions sponsored by SRMS are the following:

- *Recent Research on Current Population Survey*, Sunday, July 29
- *Survey Design and Data Adjustment Decisions in Mixed-Mode Surveys*, Monday, July 30
- *Best Student Papers Awarded by the ASA Consortium of GSS/SSS/SRMS*, Monday, July 30
- *Small Area Estimation with Small Samples*, Tuesday, July 31
- *Official Statistics and Small Area Estimation*, Tuesday, July 31
- *Probabilistic Record Linkage: Better Assumptions, Scalable Inference, and Accounting for Uncertainty*, Wednesday, August 1
- *Measuring Household Wealth in Europe: The Household Finance and Consumption Survey*, Wednesday, August 1
- *Statistical Explorations for the Post-Enumeration Survey of the US 2020 Census*, Wednesday, August 1
- *Using Para-Data to Analyze the Determinants and Impact of Interview Length*, Thursday, August 2
- *Statistical Challenges in Combining Survey and Administrative Data*, Thursday, August 2

The contributed sessions sponsored by SRMS are the following:

- *Advances in Sampling Techniques and Tools*, Sunday, July 29
- *Nonresponse Adjustment and Weighting*, Monday, July 30
- *Replicate Weights and Variance Estimation*, Monday, July 30
- *Statistical Models in Survey Sampling and Analysis*, Tuesday, July 31
- *Issues in Survey Design and Estimation*, Tuesday, July 31
- *Survey Modes and Measurement Error*, Wednesday, August 1
- *Advances in Small Area Estimation*, Wednesday, August 1

chapternews

North Carolina

Chapter Hosts Recycled Poster Session

The North Carolina Chapter hosted a recycled poster session and social in late March. This social offered local statisticians a chance to practice an upcoming poster presentation or re-use an old poster while providing an informal setting for members to exchange ideas and learn about each other's work. More than a dozen posters were presented to an audience of nearly 50 over dinner and drinks at a local brewery. More information and pictures can be found on the NC ASA Chapter blog at *http://bit.ly/ASANCChapter*.

- *The Use of Auxiliary Data in Frame Development, Coverage Assessment, and Field Data Collection*, Thursday, August 2
- *Practical Aspects of Survey Design and Analysis*, Thursday, August 2
- *Imputation and Analysis of Missing Survey Data*, Thursday, August 2

For the complete JSM program, including up-to-date times and locations for all sessions, visit *http://bit.ly/JSMProgram2018*. ■

Physical and Engineering Sciences

Yili Hong, SPES JSM 2018 Program Chair

SPES has a slate of four invited and three topic-contributed sessions lined up for the upcoming JSM in Vancouver. SPES is also co-sponsoring multiple invited and topic-contributed sessions.

Invited Sessions

- *Lead with Statistics in Uncertainty Quantification*, organized by Lulu Kang from Illinois Institute of Technology, with speakers Jeff Wu, David Steinberg, and David Woods
- *A Life Cycle View of Statistics*, organized by David Steinberg from Tel Aviv University, with panelists Laura Freeman, Ron Kenett, John Peterson, and Agus Sudjianto
- *Statistical Methods for Remote Sensing Data*, organized by Jonathan Hobbs from Jet Propulsion Laboratory, with speakers Amy Braverman, Matthias Katzfuss, and Andrew Finley
- *Experimental Design Thinking for Big Data*, organized by Xinwei Deng from Virginia Tech and Devon Lin from Queen's University, with speakers Min Yang, John Stufken, and Peter Chien

Topic-Contributed Sessions

- *New Approaches to Modeling and Inference for Complex Space-Time Data*, organized by Ta-Hsin Li from IBM T. J. Watson Research Center
- *Advancement in Statistical Methods for Reliability Data*, organized by Lu Lu from the University of South Florida
- *Statistical Aspects in Stochastic and Deterministic Simulation*, organized by Wei Xie from Rensselaer Polytechnic Institute and Qiong Zhang from Virginia Commonwealth University

Co-Sponsored Invited and Topic-Contributed Sessions

- *Statistical Process Monitoring of High-Volume Data Streams*, with Quality and Productivity
- *New-Generation Experimental Design and Causal Inference in High-Tech Companies*, with Quality and Productivity
- *Field to Fork: Leading with Statistics in the Food Industry*, with Quality and Productivity
- *Novel Theory and Methods in Big Data Analytics*, with Statistical Learning and Data Science
- *Statistical Computing on Parallel Architectures*, with Statistical Computing

Continuing Education Course

- *Topics in Design of Computer Experiment: Recent Advances in Latin Hypercube and Uniform Designs*, led by Dennis Lin of Pennsylvania State University (there is an added fee for this course) ■

California

■ The Johnson and Johnson Medical Device (MD) Sector Clinical Research and Development Center of Excellence (CR&D COE) is recruiting for a principal biostatistician, to be located in Irvine, CA. Job Link: *jobs.amstat.org/jobs/10876465/principal-biostatistician* EOE.

Illinois

■ The Research Data Analyst Lead (Biostatistician) leads research data management and analysis team involved in querying, extracting, managing and analyzing multiple, complex data sets ensuring data integrity, quality, and timeliness of results. This position oversees the deployment of reporting and analytical solutions. For more information, visit *https://careers.northwestern.edu.* Keyword: 33174. EOE.

Louisiana

■ Department Head/Chair of Experimental Statistics (Tenured). College of Agriculture - Department of Experimental Statistics, Louisiana State University. Louisiana State University A&M and LSU Agricultural Center, Baton Rouge, LA, seek candidates for department head of the department of experimental statistics (EXST). Applicants should have a PhD in statistics. Ad URL: *http://bit.ly/LSUstats* EOE.

Nebraska

■ The Department of Biostatistics, College of Public Health at the University of Nebraska Medical Center, seeks outstanding faculty candidates for an assistant or associate professor. Preferred areas of emphasis include: big data, statistical analysis of high dimensional data, or statistical methodology for clinical trials or observational studies. For full description, qualifications, and to apply, visit *unmc.peopleadmin.com/postings/37857.* EOE.

Pennsylvania

■ The Wharton Department of Statistics at the University of Pennsylvania seeks to hire full-time or part-time lecturers for the 2018–2019 academic year. Excellence in teaching is the primary criteria for the position. Applicants must have outstanding communication skills, along with a degree from an accredited institution; a PhD is preferred. Any questions may be sent to *stat.lecturer.hire@wharton.upenn.edu*. URL: *statistics.wharton.upenn.edu/recruiting/lecturerpositions* EOE.

Professional Opportunity listings may not exceed 65 words, plus equal opportunity information. 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.

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.

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.

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Rhode Island

■ The University of Rhode Island, Department of Computer Science and Statistics in the College of Arts and Sciences (A&S) invites applications for a tenure-track assistant professor of statistics position with appointment to begin the academic year 2018–2019. This is an open-until-filled search. URL: *https://jobs.uri.edu* (job posting F00083). EOE.

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To apply, use the electronic submission website at ***http://unc.peopleadmin.com/postings/137617*** and upload PDF versions of your CV, cover letter, and research and teaching statements. Candidates must also arrange for three letters of recommendation to be emailed to ***vera_bennett@unc.edu*** addressed to:

Faculty Search Committee c/o Vera Bennett
Department of Biostatistics
CB #7420, McGavran-Greenberg Hall
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7420

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Frank Harrell • @f2harrell
@d_spiegel, @stephensenn, Doug Altman, Jim Berger, Don Berry would be five statisticians I'd like to interview for a start.

> **Maarten van Smeden** • @MaartenvSmeden
> Great list. Additionally: Donald Rubin, Bradley Efron, Jerome Friedman, @NateSilver538

Thomas Speidel • @ThomasSpeidel
Doug Altman, Sander Greenland, David Spiegelhalter, Rob Tibshirani, Trevor Hastie, Bill Cleveland, Andrew Gelman, and Frank Harrell who's too modest to mention his own name 😉

Anna Gottard • @annie_corXY
David Cox!

Geoff Shaw • @StatGeoff
I would interview Box or Tukey. Both had interesting lives and would be fun to talk to.

Kim Flagg Sellers • @KimFlaggSellers
David Blackwell, were he still living.

Wajdi Ben Saad • @wajdi_bs
Karl PEARSON, Thomas BAYES, Carl F. GAUSS...

Kel Zou • @kel_zou
One of the wittiest, Dean Xiao-Li Meng! #statistician #statistical #Statistics #statistics #Stats

German M Altgelt
Does Pascal count?

Mazharul Islam
The lady with the lamp [Florence Nightingale]

Lee D. Witt
Erich Lehmann

Kartik Waghmare
Ronald Fisher

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We'll ask our followers — What would you tell your 13-year-old self about statistics?

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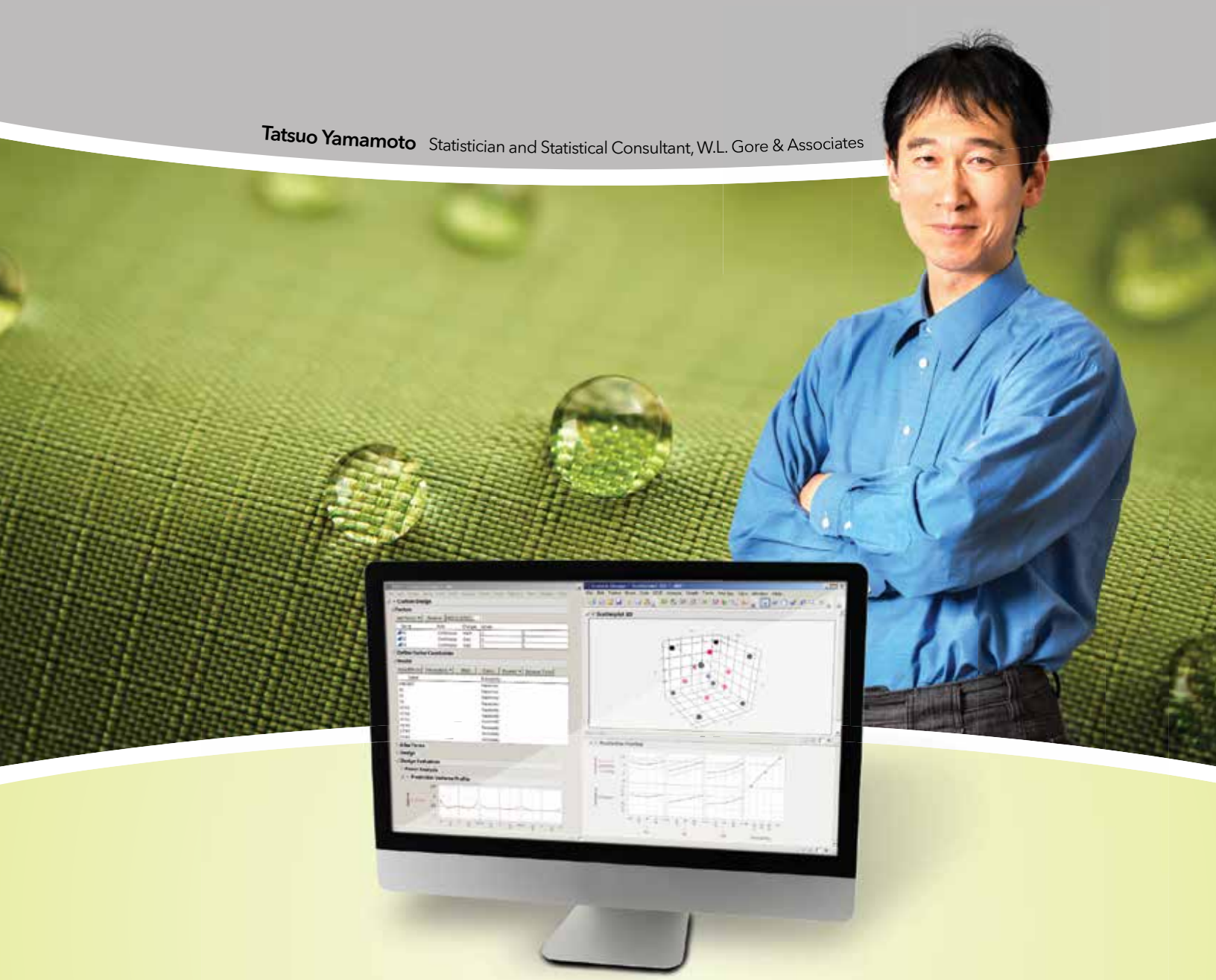

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