E-Tidings Newsletter

SCASA Events and News

Volume 12, Issue 4

April, 2024

IN THIS ISSUE

SCASA Regional Data Visualization Poster Competition 2024 Results

SCASA is ready to announce the winners of our 4th Regional Data Visualization Poster Competition. All participants will receive a certificate of participation. The first-place winner will receive a $200 cash prize, a medal, a perpetual plaque for the school, and an opportunity to present the research during the lunch break at the Applied Statistics Workshop on April 13. The second through fifth place winners will receive medals and cash prizes of various amounts.

Congratulations to all the winners !!!

1ST PLACE Owen Sun, grade 10, California *Academy of Mathematics and Science, Carson,* "Retractions Through The Lens of Data: A Visualization"

2ND PLACE Isabella Nunez, grade 12, *California High School, Whittier*, "Exploring Reproductive Health Experience in SLE"

3RD PLACE Sora Lee, grade 11, *Palos Verdes Peninsula High School, Rolling Hills Estates*, "Changes in Social Interest of Environmental Pollution in California"

4TH PLACE Maria Wodarz, grade 10, *University High School, Irvine*, "Relationship between literacy in K-12 students and per capita income: implications for improving policies"

5TH PLACE Chayse Erkelens, Vivian Tran, Sofia Martinez, and Saaron Seifu, grade 12, *Sato Academy of Mathematics and Science, Long Beach,* "Fatigue in runners was accompanied by a decrease in ground reaction forces & flight time, and an increase in hip abduction & ground contact time despite variations in form"

https://community.amstat.org/scasa/postercomp

Upcoming Event!

43rd Applied Statistics Workshop
Saturday, April 13, 2024

TOPIC: STATISTICS FOR PUBLIC POLICY

PRESENTER: JEREMY WEBER

WHEN: Saturday, April 13, 2024, 9AM - 3PM

LOCATION: https://csulb.zoom.us/j/81532967761

COST: Free

REGISTRATION: not required

A huge thank-you to our loyal sponsor, Amgen!

EVENT SCHEDULE

- 9:00 AM – 9:15 AM   Introduction and Overview

- 9:15 AM – 11:00 AM   Session I   **Big ideas: The role of statistics in public policy Do data ever drive a policy decision? What's different about statistics in policy vs. academic settings?**

- 11:00 AM – 11:05 AM   Break

- 11:05 AM – 12:00 PM   Session II   **'Is this a random sample?' is the wrong question: What statistical essentials must the statistically savvy policy aide wield with confidence?**

- 12:00 PM – 12:45 PM   Lunch Break + **presentation by Owen Sun,** grade 10, *California Academy of Mathematics and Science, Carson*, "Retractions Through The Lens of Data: A Visualization" (1st-place winner at the SCASA Regional Data Visualization Poster Competition)

- 12:45 PM – 2:30 PM   Session III   **Is "large" the right adjective? How can you distinguish small from large and communicate statistics to diverse policy-minded audiences?**

- 2:30 PM – 2:45 PM Q/A

- 2:45PM – 3 PM Book Raffle and Wrap-up

Continued from the previous page.

WORKSHOP ABSTRACT

Using statistics in public policy settings presents challenges not commonly addressed in academic statistical training. This workshop seeks to bridge theory and practice, and not academic practice but practice with the Mayor's staff as they size up issues, consider options, and make decisions. It does so through three sessions, starting first with big-picture ideas such as the roles that statistics can play in policy decisions and how academic and policy practice can differ. The second session discusses statistical essentials important for a policy aide to wield with confidence, such as knowing the details of definitions behind the data and how to gauge the value of statistics from nonrandom samples. The third session addresses the controversial but important task of selecting and defending adjectives to convey whether a number is large or small, alarming or ignorable. The session also explains principles for communicating statistics to diverse audiences, ranging from policy wonks to high-level decision makers, so that the statistics are seen, understood, and believed.
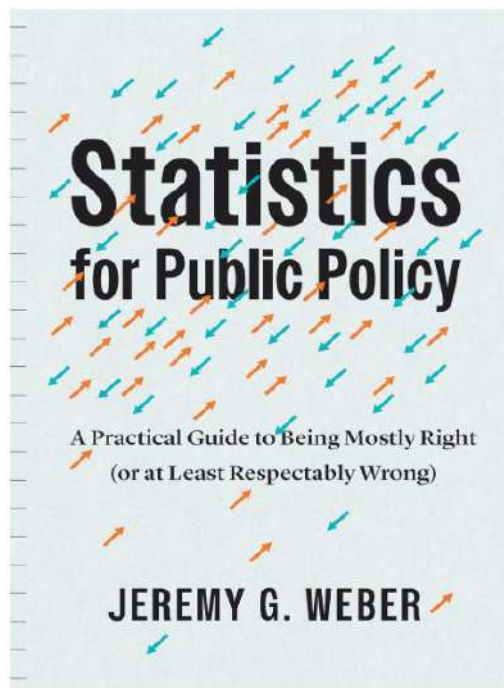
ABOUT THE PRESENTER

JEREMY WEBER is a professor at the University of Pittsburgh Graduate School of Public and International Affairs and author of "Statistics for Public Policy: A Practical Guide to Being Mostly Right (or at Least Respectably Wrong)." His teaching includes courses in quantitative methods and policy analysis, and his research addresses empirical questions in energy and environmental economics and policy. He regularly engages with non-academic audiences and has extensive policy experience, having worked as a research economist at a Federal statistical agency (the Economic Research Service) and as a chief economist at the White House (the Council of Economic Advisers).
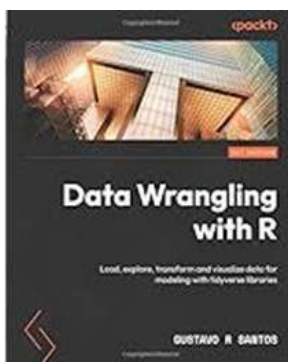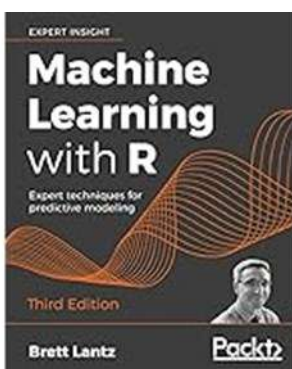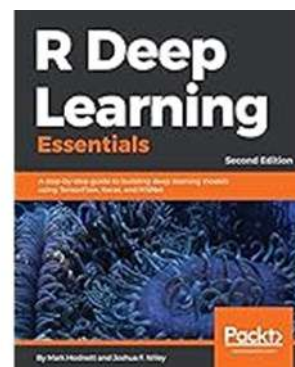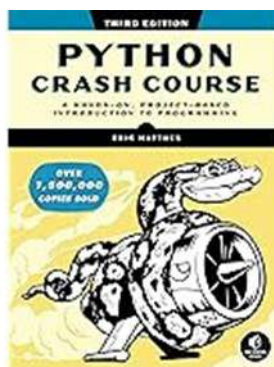
Continued from the previous page.

BOOKS FOR RAFFLE (SPOILER)

x 5 signed books !!!

Statistics for Public Policy
A Practical Guide to Being Mostly Right (or at Least Respectably Wrong)
JEREMY G. WEBER

THIRD EDITION
PYTHON CRASH COURSE
ERIC MATTHES
OVER 1,000,000 COPIES SOLD

R Deep Learning Essentials
Second Edition
By Mark Hodnett and Joshua F. Wiley

EXPERT INSIGHT
Machine Learning with R
Expert techniques for predictive modeling
Third Edition
Brett Lantz
Packt

Data Wrangling with R
Load, explore, transform and visualize data for modeling with tidyverse libraries
GUSTAVO R SANTOS

50 DAYS OF DATA ANALYSIS WITH PYTHON
The Ultimate Challenges Book for Beginners
pandas numpy MATPLOTLIB seaborn scikit-learn
BENJAMIN BENNETT ALEXANDER

Applied Statistics Workshop archives are located in the PDF format at https://community.amstat.org/scasa/home under the tab "ASW".

PODCAST SHOW
Open Source Application and Adaption In Clinical Trials
@Sumptuous Data Sciences

Exciting News! Join Us for a Live Podcast Discussion focusing on the crucial topic of "Open Source Application and Adaptation in Clinical Trials." Mark your calendars for **April 19th, 2024**, at **12:00 PM EST**, and join us for an insightful conversation! Our esteemed panelists for this episode are:

- Kevin Lee - Data Scientist in the field of Biometrics, Open Source, AI and Gen AI
- Sunil Gupta - Founder of SASSavvy.com and R-Guru.com

These industry experts will share their invaluable insights and experiences in leveraging open-source applications to enhance clinical trial processes. Our moderator for the session will be Parag Shiralkar, guiding us through an engaging discussion on the latest trends, challenges, and opportunities in this dynamic field. Don't miss out on this opportunity to gain valuable knowledge and perspectives from our distinguished panelists!

Register now to join the live podcast discussion and be part of the conversation: **HTTPS:// LNKD.IN/GAQWHYC3**

Let's come together to explore the potential of open-source solutions in revolutionizing clinical research and shaping the future of healthcare.
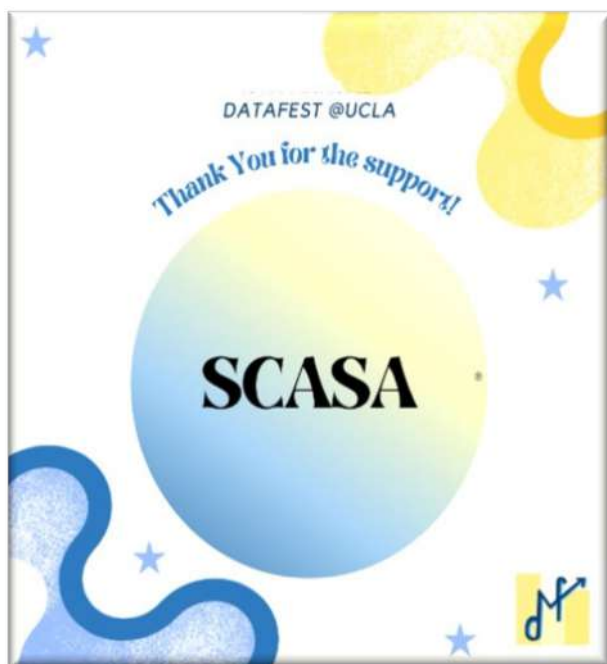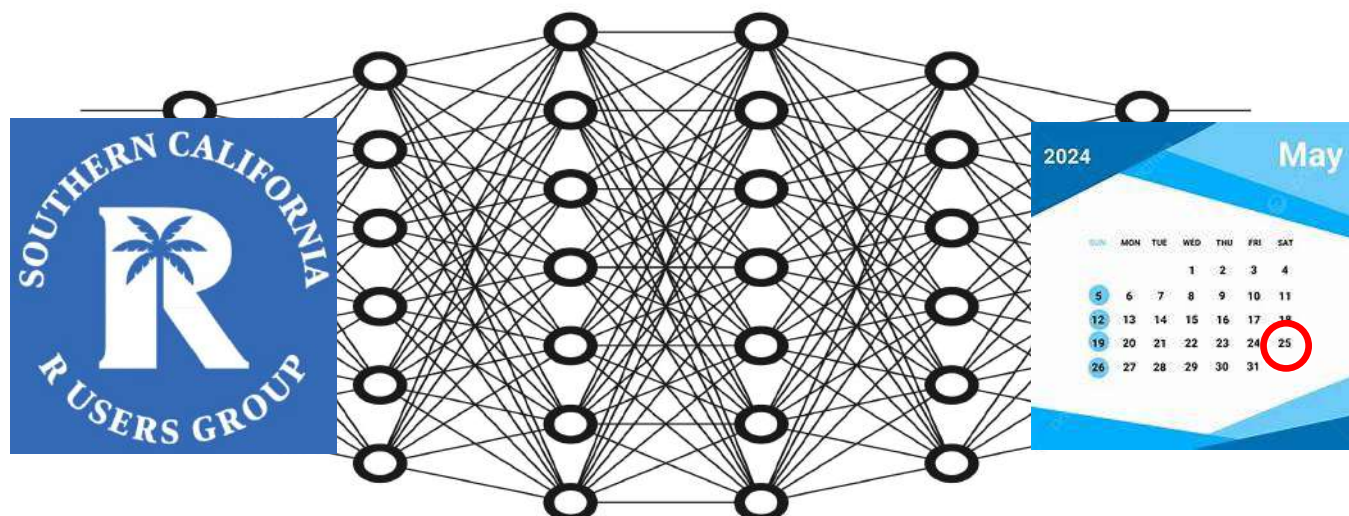

Sumptuous Data Sciences

Sumptuous Data Sciences' core focus is to provide biostatistics and data operations services.

CALL FOR MENTORS AND SPONSORS

The 14th ASA DataFest at UCLA 2024 will be held on April 26-28, 2024, at the UCLA Ackerman Grand Ballroom (same site as the past two years). It is a 48 hour data competition for undergraduate students which also involves the Southern California Statistics/Data Community. We are actively looking for mentors and sponsors. If you would like to be a mentor please sign up here **https://forms.gle/WkFbAcEY1GbiEuPc9**. If you know of a company willing to sponsor the event please share this site with them **https://giving.ucla.edu/datafest2024**. If you would like to be a judge or have any questions about the event please contact Dr. Linda Zanontian (DataFest organizer) at ***linda@stat.ucla.edu***. FYI, SCASA donated $500 this year to support DataFest at UCLA, as we try to do every year.

ONE-DAY WORKSHOP

May 25, 2024, 9AM - 4 PM (computer set-up 8:30-9AM)

UCI Paul Merage School of Business, Building 1, Room 120

(4293 Pereira Drive, Irvine, CA 92697)

Instructor: Dr. Olga Korosteleva, CSULB

SUPERVISED MACHINE LEARNING TECHNIQUES WITH R

Abstract

In this short course, we'll study supervised machine learning methods using R. We'll cover both the theoretical foundations and practical implementations of various techniques. These include statistical methods like decision trees, random forests, and naïve Bayes classification, alongside mathematical optimization techniques such as gradient boosting, k-nearest neighbors, support vector machines, and artificial, recurrent, and convolutional networks. If time allows, we'll also explore the fascinating world of natural language processing. Data sets and complete R codes will be provided.

More details will be posted soon at **https://www.meetup.com/socal-rug/**

There will be a nominal cost associated with this event (basically, offsetting the cost of the lunch).

By Anna Yu Lee, Current SCASA President

Hello all,

Proposed Idea for Increasing Engagement with Current and New SCASA Members

TELEVISED, STATISTICS-THEMED GAME SHOW, SEPTEMBER 7TH, 2024
10:30am - 11:00am Registration & Setup
11:00am - 12:00pm Live, Televised Competition
12:00 - 12:30pm Food & Drinks
12:30 - 1:00pm Award Ceremony
& Sponsor Thanks

I drafted both a video and social media promo for the show (just to give you all some idea of what I'm considering). Please feel welcome to view it here:

HTTPS://YOUTU.BE/GB2O42EULZE?SI=XRK2ZHVBPZW3S-HY

Are any of you interested? If you are, please feel welcome to email me at annamarieyu1@gmail.com so I can gauge levels of general interest. Or, please feel welcome to volunteer any suggestions or ideas, or let me know if you are interested in being part of a planning committee for this event.

STAT-urday, Sept. 7th, 2024

10:30am - 11:00am Registration & Setup
11:00am - 12:00pm Live, Televised Competition
12:00 - 12:30pm Food & Drinks
12:30 - 1:00pm Award Ceremony & Sponsor Thanks

Event Overview

This event hosted by the Southern California Chapter of the American Statistical Association, to celebrate, bring together, spotlight, and challenge lovers of statistics and data science. It is open to all members of the general public, including statisticians, data scientists, university and high school students. Sponsor and be featured!

Location

This event will be filmed in Pasadena Media's television studio and aired on its Arroyo Channel, available on all the below platforms. 150 S. Los Robles Ave. Ste. 101 Pasadena, CA 91101 (entrance on El Dorado)

WHERE TO WATCH

CABLE	CABLE	OTT	OTT	OTT
Spectrum Channel 32	AT&T U-verse Channel 99	fire tv PASADENA MEDIA	tv PASADENA MEDIA	ROKU PASADENA MEDIA

Continued from the previous page.

Initially I was envisioning this as an adults-only event, but at the career fair, there seemed to be a lot of excitement about the idea among high school students (several of them said they would be happy to attend and participate in the event), so I pivoted and thought that maybe it could be a trivia game show in which one or more established statisticians competes against one or more selected high school students who have a basic familiarity with statistical history and terminology.

Finally, in light of the lovely turnout at our first online "STAT-urday with the President" event, I'd love to host two more of these online events, at the following dates and locations:
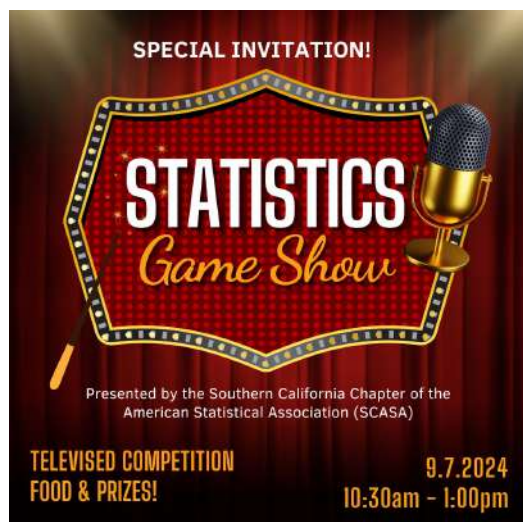
Times:
STAT-urday June 1st, 11am-12pm (Virtual)
STAT-urday August 3rd, 11am-12pm (Virtual)
Location: https://cpp.zoom.us/j/6121983675

Any thoughts, feelings, feedback, input, insight, etc.? I would appreciate hearing from any of you.

Probabilistically yours,
Anna

Dr. Normal-curvesaurus, Ph.D. presents

Statistics show that 47% of people are pedantic. Well, 46.8%.

Question By A STUDENT !!

If A Single Teacher Can't Teach Us All The Subjects, Then..
How Could You Expect A Single Student To Learn All Subjects??

More Fun At www.FunnyVooz.com

Don't get discouraged. Complex projects are like onions: you have to peel the requirements one layer at time.

Yes, and they also make you cry.

MATH 101 FOR THOSE WHO CAN ONLY COUNT TO 100

© Randy Glasbergen / glasbergen.com

"There will be six designated yawning breaks during my presentation. Please pace your boredom accordingly."