

E-Tidings Newsletter

SCASA Events and News



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THE SCASA ANNUAL KICK-OFF AND BUSINESS MEETINGS

SATURDAY, DECEMBER 2, AT APU

Date and Time: Saturday, December 2, 10:30 AM – 2:30 PM

Location: Segerstrom Science Center, Room 162, on the West Campus of Azusa Pacific University (APU), at this address: 675 E Foothill Blvd, Azusa, CA 91702 (circled in red on the map)



Parking: Free

Cost: Free

Registration: Please register at <https://www.eventbrite.com/e/scasa-kick-off-meeting-tickets-754219369437?aff=oddtcreator> for an accurate head count for the lunch order. If the capacity of Eventbrite.com exceeds 25 tickets, please email annayulee1@gmail.com directly.

AGENDA

10:30 – 11:30 AM talk by Jacob Rode “Meta-analysis as a tool to address complex problems: An example on climate change perceptions and overview using R”

11:30 – 11:45 AM break

11:45 AM – 12:30 PM talk by Chong Ho (Alex) Yu “From traditional statistics to modern data science and machine learning”

12:30 – 1:30 PM lunch

1:30 – 1:35 PM book raffle (must be present to win)

1:35 – 2:30 PM SCASA Business Meeting

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PRESENTER'S BIO: DR. JACOB RODE



I am an Instructional Assistant Professor at Chapman University, where I teach research methods, senior seminar, and psychology for sustainability. I received a BA from Johns Hopkins University and a PhD in social psychology from the University of California, Irvine. My research sits at the intersection of sustainability and psychology, investigating topics in sustainability from a social-psychological perspective.

ABSTRACT

Despite the evidence of the impacts of climate change, society remains slow to address it. Researchers interested in climate change communication have investigated how people respond to messages about it, leading to an abundance of studies from a variety of disciplines. Therefore, meta-analysis can be a particularly valuable tool for providing insight into the effectiveness of these messages. In this talk, I will describe how meta-analysis can answer questions about climate change perceptions, including: which messages are effective, which perceptions are most malleable, and whether skepticism is more easily induced than belief. I will overview the basics of conducting meta-analysis in R using the *metafor* and *robumeta* packages. Additional considerations in meta-analysis will be discussed, such as handling dependent effect sizes.

PRESENTER'S BIO: DR. CHONG HO (ALEX) YU



Chong Ho Yu is Professor and Program Director of Data Science at Hawaii Pacific University. He won the SAS Faculty Scholarship three times and also is the winner of the 2021 Outstanding SAS Educator. His research profile can be found at <https://scholar.google.com/citations?user=mdGny3EAAA&hl=en>

ABSTRACT

This talk, which is based on my book "Data Mining and Exploration: From Traditional Statistics to Modern Data Science," aims to discuss similarities and differences between classical statistics and data science, as well as the transition from one to the other. Indeed, the two are not at odds with each other. For example, data science can help generate hypotheses and discover correlations efficiently with large datasets, whereas traditional statistics is better suited for validating causal relationships. Specifically, researchers can combine automated data mining techniques and traditional structural equation modeling to explore alternate causal paths.

For hierarchical, nested data, multi-level models like hierarchical linear modeling (HLM) are preferable to handle the data structure properly. This demonstrates the continued relevance of traditional techniques for certain data types. In addition, while large datasets necessitate big data analytics, traditional stats may still be suitable for smaller data. Because there is overlap and continuity between data science and traditional stats, using them together in a complementary fashion provides a more holistic understanding compared to using either approach alone.

WEBINAR

INTRODUCING THE VERISIAN VALIDATION ENGINE

DATE & TIME December 14, 2023 09:00 AM PT

DESCRIPTION Clinical study analysis, validation and maintenance are resource - and time-intensive. Statistical code complexity is enormous as one study may contain dozens of files with 1000s of cross references. This makes understanding how data is analyzed in a study non-trivial. In this webinar, we're excited to introduce how we're addressing these issues with the Verisian Validation Engine.

WHAT YOU'LL LEARN

- Understand the challenges of CDISC data standardization and statistical analyses in clinical studies
- Discover how the Verisian Validation Engine uses graph analytics to offer full code and data traceability from raw data, through SDTM and ADaM to TFLs
- Learn how we're changing the way we work with SAS execution logs, offering an immersive experience to help programmers understand log messages and how to resolve them using our graph-powered AI
- Find out how the Validation Engine assesses your analysis code for submission readiness and suggests improvements using graph-powered

AI PRESENTERS

- Henning Kuich, CTO & Co-Founder, Verisian
- Sunil Gupta, Principal SAS Programmer, CDISC Advisor, Trainer, Author

Whether you're a statistical programmer, statistician, or data scientist, we hope you'll find this webinar useful.

[HTTPS://US06WEB.ZOOM.US/WEBINAR/REGISTER/WN_g1x6Z-aSu-WEzQYLI0W4g#/REGISTRATION](https://us06web.zoom.us/webinar/register/WN_g1x6Z-aSu-WEzQYLI0W4g#/registration)

SEEDSConference 2024



Statistics Empowering Data Science (SEEDS)

The SEEDS inaugural conference aims to educate participants on the interconnections between statistics, data science, and business research problems, with the intention of stimulating fresh collaborations, uncovering novel research directions, and helping keep our higher education offerings up to date.

WHEN: January 12-13, 2024.

WHERE: Marshall School of Business, University of Southern California, Los Angeles

MORE INFO: <https://usc-dso-stat-group.github.io/seeds-2024-conference/>



WEBINAR

COMPARE AND CONTRAST COMMON R FUNCTIONS

DATE & TIME January 24, 2024 07:00 AM (Pacific Time)

PRESENTER Sunil Gupta, Founder of R-Guru.com

DESCRIPTION In this webinar, I will compare and contrast common R functions from common R packages. R has a rich collection of functions for data queries, joins and string operations. From the R-Guru cheat sheet, I cut and paste R examples to showcase R functions and review similarities and differences with each approach. You can decide which R functions you prefer for best practices!

R-GURU CHEAT SHEET FOR STATISTICAL PROGRAMMERS

[HTTPS://R-GURU.COM/RESOURCES/R%20DOWNLOADS/R%20GURU%20CHEAT%20SHEET%20FOR%20STAT%20PROGRAMMERS.PDF](https://r-guru.com/resources/r%20downloads/r%20guru%20cheat%20sheet%20for%20stat%20programmers.pdf)

TO REGISTER To register, please email

GUPTAPROGRAMMING@GMAIL.COM

2024 Lange Symposium on Computational & Statistical Genomics

University of California, Los Angeles

JANUARY 26, 2024 AT UCLA
8:30 AM - 4:00 PM

We are pleased to announce our Fourth Annual Lange Symposium. This year's topic is *Computational & Statistical Genomics*. This annual event is hosted by the UCLA Departments of Computational Medicine and Human Genetics, and supported in part by a grant from the National Human Genome Research Institute; R25 HG011845. The Annual Lange Symposium was launched in 2020 to honor UCLA Professor and National Academy of Sciences Fellow Kenneth Lange. The event celebrates the impact of Dr. Lange's research, mentorship, and teaching over the course of an illustrious career spanning more than four decades.

SPEAKERS

- Eric Chi, Rice University
- Susan Holmes, Stanford University
- Jessica Li, UCLA
- Donald Martin, North Carolina State University
- Sriram Sankararaman, UCLA
- Matthew Stevens, University of Chicago

REGISTRATION

To register for this event, [click here](#)

Registration Rates:

- \$28 - Student
- \$50 - Postdoc, Faculty, Professional
-

The event will be held at the **UCLA LUSKIN CONFERENCE CENTER**.

<https://langesymposium.github.io/Lange-Symposium/>

Keck School of Medicine of USC
Department of Population and Public Health Sciences



LA's BeST @USC

LA's **B**io**S**tatistics & **D**ata **S**cience **S**ummer **T**raining
Program at the University of Southern California



Attention all mathematics, statistics, and science students seeking a summer opportunity!

What is LA's BeST @USC?

A six-week program to give students in math and science the opportunity to:

- ✓ do quantitative research in population health and medicine
- ✓ learn about careers in public health from biostatisticians, epidemiologists, data scientists and other population health experts
- ✓ get professional development training in presentation skills, the graduate school application process, and more

Tentative dates: JUNE 17 - JULY 26, 2024*

Application Period Opens Dec. 1, 2023.
Offers will be made on a rolling basis.

APPLICATIONS DUE Feb 2nd, 2024

Eligibility:

U.S. citizen or permanent resident
Completed at least 2 years of undergraduate study

What sets us apart:

- ✓ Earn College Credits
- ✓ No tuition or fees, \$3K Stipend
- ✓ Housing & Transportation covered
- ✓ Networking & Mentorship Opportunities
- ✓ Extracurricular Activities

Learn health data analysis, epidemiology, clinical trials, statistical genetics and spatial statistics for geographical modeling

Train using R, a widely used software in research
Immerse in data from groundbreaking public health research studies such as the Southern California Children's Health Study

We seek a diverse group of students interested in solving complex health issues



***For more information and to apply, visit:**

LASBEST.USC.EDU

or contact Nicole Avila, LA's BeST Coordinator at nreyes@usc.edu



THE NATIONAL INSTITUTE OF STATISTICAL SCIENCES (NISS) CALL FOR INGRAM OLKIN FORUM PROPOSALS

The Ingram Olkin Forums (IOF) aim to promote Statistics Serving Society and bring statisticians into areas of important national interest where they are not already well represented. Great candidate proposals will envision presentations that encourage future collaborative work. Financial needs and locations can be discussed with the IOF committee.

The Statistics Serving Society forums are in honor of the memory of Professor Ingram Olkin. Each forum focuses on a current societal issue that might benefit from



new or renewed attention from the statistical community. The **S³** Forums aim to bring the latest innovations in statistical methodology and data science into new research and public policy collaborations, working to accelerate the development of innovative approaches that impact societal problems. As the Forum will be the first time a particular group of experts will be gathered together to consider an issue, new energy and synergy is expected to produce a flurry of new ideas and approaches.

Goals for the **S³** Forums include:

- Providing statisticians with an understanding of the societal problems and stimulating their interest in working on related statistical issues.
- Developing an agenda of statistical action items that are needed to better inform public policy and to generate reliable evidence that can be used to mitigate the problem. For example, action items might focus on data availability, data collection methods, causal inference, data science, designed and natural experiments, quality control, trend assessments, and the evaluation of preventative and restorative initiatives.
- Leading to new collaborations among statisticians and those working to understand and mitigate the problem.
- Leading to funded grant proposals that works to bring the detailed action items to life.

S³ Forums are intended to be participatory. In every forum, all participants will have a role such as discussant, moderator, recorder or note taker. There will be discussion time at each session and roundtable discussions at the end of each day, and a final time before the forum closes for reporting, syntheses, and writing.

For more information on IOFs, guidelines, and Tips for Planning an Ingram Olkin Form see

[HTTPS://WWW.NISS.ORG/FORM/CALL-INGRAM-OLKIN-FORUM-PROPOSALS](https://www.niss.org/form/call-ingram-olkin-forum-proposals)

Dr. Normalcurvesaurus, Ph.D. presents



I AM PRETTY SURE EVERYONE SAYS THIS
AFTER THANKSGIVING:

$$\frac{\sqrt{-1}}{8}$$

I overate



"Your owners pet you to relieve stress. If that fails, you could be sued for malpractice. That's why you need cat insurance."

