NISS

Affiliates Update

WELCOME!

This latest edition of the Affiliates Update highlights upcoming NISS sponsored events. At NISS sponsored events, NISS affiliates are eligible to use their Affiliate Award Funds to pay for registration and travel expenses. Again, this month we focus on virtual events due to COVID-19 and the widespread cancellation of in-person events. Please check the NISS website for the latest changes: https://www.niss.org/events

PLEASE BE SURE TO CIRCULATE THIS AFFILIATES UPDATE TO YOUR COLLEAGUES!

NISS sponsored events encourage cross-sector and cross-disciplinary networking. Let us know if you are planning an event and would like NISS to co-sponsor it. NISS affiliates can use their award funds to support these events. For more information about the NISS Affiliate program, see: https://www.niss.org/affiliate-program-information. To become a member, complete the application available at https://www.niss.org/affiliates/become-affiliate

James Rosenberger, Director NISS

NISS AT A VIRTUAL JSM IN 2020!   CHECK YOUR SCHEDULE!

Despite JSM being virtual this year, NISS still has a number of sessions on the schedule!

Here is the scoop! As you put your virtual schedule together for JSM this year, make sure you don't forget about these important sessions!

First, NISS has organized two important sessions that are a product of previous and planned Ingram Olkin Forum topics; the data and research around gun control and the opiod crisis.

In addition, NISS Research Associates and Research Fellows present the important research they have been involved in.

Here is the session information you will find helpful about these NISS related JSM presentations. Find all the details on the NISS website.

Mon, 8/3/2020, 1:00 PM - 2:50 PM

Invited Panel Session: Statistical Issues of Gun Safety and Opioid Epidemic

Tue, 8/4/2020, 1:25 PM - 1:45 PM

Extreme Machine Learning Methods and Applications: Domestic and International — Topic Contributed Papers

Tue, 8/4/2020, 1:00 PM - 2:50 PM

Invited Paper Session: Data and Challenges for Unraveling Gun Violence

Wed, 8/5/2020 10:25 – 10:45 AM

Data Integration in 21st Century Government Surveys — Topic Contributed Papers

Also at this session at 10:45 AM

Statistical Integration and Inference via Multilevel Regression and Poststratification

Wed, 8/5/2020, 10:30 – 10:55 AM

The New Era of Ecological Statistics, Section on Statistics and the Environment

Find Full Session Details on the NISS website!

Philadelphia JSM 2020
Philadelphia, Pennsylvania, August 1-6, 2020
Everyone Counts: Data for the Public Good
Pennsylvania Convention Center

JULY

Webinar Series: Data Science in Action in Response to the Outbreak of COVID19

Event Date: Friday, July 17, 2020 11 am
Event Location: Online Webinar

The COVID-19 Forecast Hub: Using Statistics and Data Science to Support Decision-making in a Pandemic. Speaker: Dr. Nicholas G Reich, University of Massachusetts Amherst. Abstract: The COVID-19 Forecast Hub is a consortium of modeling teams from across the world making forecasts of the COVID-19... (read more)

ASA, ISI, and NISS Town Halls on COVID-19

Event Date: July 17 & 28, 2020 at 1 p.m. ET
Event Location: Online Webinar

ASA, ISI, and NISS will host a series of open town hall discussions. The purpose of these discussions is to understand the breadth of the statistics community involvement at their local, state or national level in Covid-19 public health efforts. Format There are 4 town halls planned with the... (read more)

Ingram Olkin Forum Series: Unplanned Clinical Trial Disruptions

Event Date: July 21 & 28, 2020 10 - 11:30 am ET
Event Location: Online Webinar

NISS is announcing a new Ingram Olkin Forum Series Event! Unplanned Clinical Trial Disruptions COVID-19 has resulted in unprecedented disruptions to ongoing clinical trials. Clinical trials have been forced to break protocol by, for example, halting enrollment, altering the timing and type of data... (read more)

Webinar Series: Data Science in Action in Response to the Outbreak of COVID19

Event Date: July 24, 2020, 11 am EDT
Event Location: Online Webinar

Curating a COVID-19 Data Repository and Forecasting County-level Death Counts in the United States Speaker Dr. Bin Yu, Chancellor's Distinguished Professor, University of California Berkeley Abstract As the COVID-19 outbreak continues to evolve, accurate forecasting continues to play an extremely... (read more)

Essential Data Science for Business - Overview

Event Date: July 29, 2020 1-2 pm ET
Event Location: Online Webinar

NISS announces a brand new series of tutorials on some of the most interesting topics in data science that are in use in business today! This first session in this series is an overview of these Top 10 analytics approaches of the key topics that are used in the business! Students and faculty,... (read more)

AUGUST

2020 NISS Writing Workshop for Junior Researchers (at JSM)

Event Date: August 7 & 14, 2020
Event Location: This will be an Online Multiple Day Event

Once again this very popular short course will be hosted by NISS. IRecent graduates of doctoral programs will work with mentors to improve their communication skills! JSM is going virtual and this workshop is too! (read more)

Data Science Conference on COVID-19 [DSCC-19]

Event Date: August 28th - 10:00 am to 5:30 pm
Event Location: Online Webinar

About this Conference The Data Science Conference on COVID-19 will showcase open source technology and code used to model and analyze the COVID-19 pandemic and will highlight best practices in replicable and reproducible science. Presentations will explore epidemic models of the virus and the... (read more)

SEPTEMBER

NISS-Merck Virtual Meet-up on Issues in Vaccine Development

Event Date: September 16, 2020 11-12:30 EDT
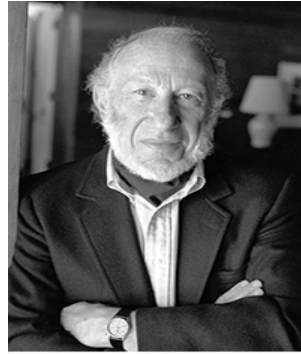**Event Location:** Online Webinar

The National Institute of Statistical Science (NISS) and Merck are sponsoring a Virtual Meet-Up on Vaccine Development. With the COVID pandemic having such a profound effect, everyone is hoping for a highly protective and safe vaccine soon. Yet most have little understanding of the difficult road... (read more)

Check the NISS Events webpage for up to date event information!

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INGRAM OLKIN FORUM SERIES:
UNPLANNED CLINICAL TRIAL DISRUPTIONS - JULY 21 & 28, 2020

COVID-19 has resulted in unprecedented disruptions to ongoing clinical trials. Clinical trials have been forced to break protocol by, for example, halting enrollment, altering the timing and type of data collection, conducting an unplanned interim analysis. Many data collection appointments were canceled, postponed, or substituted by "virtual" procedures. A large number of clinical trials now face failure due to irreversible losses of enrollment and follow-up, or due to the inability to analyze the data according to the preplanned protocol, potentially dealing a substantial setback to clinical research. This online forum will bring together statistical leaders from government agencies, clinical trial practitioners, and expert methodological statisticians to focus on these affected areas. Online meetings will be held to define the statistical characteristics of each aspect of trial disruption and bring statisticians with related areas of expertise together to focus on these challenges. Each meeting will include time for discussion and synthesis, where participants will have the opportunity to ask questions and present ideas relevant to the topic. The overall objective of these meetings is to suggest paths to novel statistical methodological solutions and call the community to action to address this need.

Find Full Session Details on the NISS website!

Day One: NIH Perspectives - July 21, 2020

10:00-10:10   Welcome and Orientation: Session 1
10:10-10:30   Nancy L. Geller (Director of Biostatistics Research, NHLBI)
10:30-10:50   Dean Follmann (Chief, Biostatistics Research Branch, NIAID)
10:50-11:10   Lisa McShane (Associate Director, Division of Cancer Treatment & Diagnosis; Chief, Biometric Research Program NCI)
11:10-11:30   Discussion

Day Two: CDC, FDA, and EMA Perspectives - July 28, 2020

10:00-10:10   Welcome and Orientation: Session 2
10:10-10:30   Lilly Yue (Deputy Director, Division of Biostatistics, FDA)
10:30-10:50   G. David Williamson (Director, Office of Science, National Center for Environmental Health, CDC)
10:50-11:10   Speaker 6 (EMA - TBA)
11:10-11:30   Discussion

Invited Working Group Sessions - Day Three through Day Six

Following the first two days, attendees will be presented with a survey that will ask if they are interested in participating in smaller active, working group sessions whose purpose is to tackle the technical and methodological issues as they emerge from the opening sessions and from the discussion that follows. Participants, chairs, moderators, and recorders will be selected from the survey responses. Each working group will be charged with producing a white paper or a manuscript for the purpose of sharing the findings that result.

More Information to Follow!   Date and Participant Information TBD!

ESSENTIAL DATA SCIENCE FOR BUSINESS
OVERVIEW SESSION - JULY 29, 2020 1-2 PM ET

NISS announces a brand new series of tutorials on some of the most interesting topics in data science that are in use in business today!

This first session in this series is an overview of these Top 10 analytics approaches of the key topics that are used in the business!

Students and faculty, these are perhaps the top ten most important and practical topics that may not be covered in your program of study.

This first overview session will be presented by Victor Lo of Fidelity Investments. Here are the titles of the sessions as they will be presented during the summer and into the fall of 2020 that Victor will introduce.

Essential Data Science for Business - Series Topics:

1. Analytical Consulting, Communication and Soft Skills
2. Computer Science, Programming, and Tools
3. Descriptive Analytics, Exploratory Data Analysis, and Data Visualization
4. Predictive Analytics and Machine Learning
5. Causal Inference and Uplift Modeling
6. Deep Learning
7. Predictive Analytics and Optimization
8. Unstructured Data Analysis
9. Social Sciences and Data Science Ethics
10. Domain Knowledge and Case Studies

This first overview session is free and open to the public. There will be a modest fee for the subsequent tutorials

Find Full Session Details on the NISS website!

Victor S. Y. Lo, (Fidelity Investments) presents initial overview session.

NISS POSTDOCTORAL FELLOW / EARLY CAREER RESEARCHER POSTION

The National Institute of Statistical Sciences (NISS) is a research institute focused on bringing advances in statistics to high priority projects with national / international impact. Early career researchers at NISS have the opportunity to work with researcher leaders to develop innovative statistical solutions to high impact problems.

RESEARCH CHALLENGES

NISS projects develop and implement new statistical methodology for high priority federal agency problems and analyses of massive datasets. Primary focus will be on education survey and assessment data and technical issues facing the National Center for Education Statistics (NCES) in the US Department of Education.

Develop, implement and test innovative statistical methodologies.

Apply statistical thinking and technology to high-profile social, economic, survey and assessment data.

Conduct research to meet one or more of three objectives:

1. Innovative methodology for modeling and estimation for education survey and assessment data

2. Uncertainty quantification and computation, often for combining different sources of uncertainty

3. Complex analysis of education data including assessment process data to answer specific substantive questions.

4. Assist with expert panels tasked with formulating technical approaches to high priority issues for NCES.

Appointment will be for one year with expectation of renewal. Position will remain open until filled.

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Please share with Colleagues!

The National Institute of Statistical Sciences (NISS) is an organization whose mission fosters cross-disciplinary research and advocates for statistical engagement in data science.

NISS