Society for Epidemiologic Research

2023 Annual Meeting
Portland, Oregon

June 13-16, 2023

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Society for Epidemiologic Research

Event Schedule

Mon, Jun 12, 2023

8:00 AM

Critical Review and Preparation of Manuscripts Reporting Epidemiologic Findings

8:00 AM - 8:00 AM, Jun 12

Workshop (Virtual) Pre-Co…

WORKSHOP DATE: April 25, 10:00am - 2:00pm Mountain Time

Overview abstract: In this half-day workshop, participants will critically review a paper as initially submitted to the American Journal of Epidemiology (AJE), but not yet published. The paper will be sent to participants in advance of the workshop for their critical review. During the workshop, a presentation will be made on some of the main points to be considered when preparing or reviewing a manuscript. Small group work will follow the presentation so that participants can compare their reviews, prepare a consolidated list of critical comments on the paper and a decision letter. Each group will designate a rapporteur, who will present the group's review of the paper and decision letter to the whole group of participants. At the end of the workshop, students will receive copies of the manuscript's AJE reviews, the initial editorial decision and the final version of the paper.

Speakers

Moyses Szklo
University Distinguished Professor of Epidemiology and Medicine (Cardiology) Emeritus
Johns Hopkins Bloomberg School of Public Health

Polly Marchbanks
CDC/USPHS (Ret.)

Developing Competencies for Doctoral Students in Epidemiology

8:00 AM - 8:00 AM, Jun 12

Workshop (Virtual) Pre-Co…

WORKSHOP DATE: March 1, 10:00am - 12:00pm Mountain Time

The overall objective of this two-part workshop is to develop a set of specific competencies for doctoral students in epidemiology. We use competencies in this context to refer to a set of topics that doctoral students in epidemiology programs should demonstrate some mastery of prior to completing their training. The Council on Education in Public Health (CEPH) has formal competencies for graduate programs in public health, but their criteria are very broad and not specific to graduate programs in epidemiology. Moreover, CEPH accredits DrPH programs, not PhD or ScD programs in epidemiology. Recently, Alison Abraham and colleagues developed a set of basic competencies for epidemiologists. However, it is difficult to translate their competencies (e.g. "Competency to collect valid and relevant high-quality data") into specific topics to include in doctoral training programs in epidemiology, which limits their utility for faculty members tasked with teaching students.

Through this workshop, we aim to develop expert consensus around topics that PhD students in epidemiology "must know" before graduating. The end-goal of this workshop is to create a written document to be submitted for publication and dissemination to standardize best practices in epidemiology education. This fits in with the broader theme of institutional equity and diversity that is emphasized by SER: students at all institutions should all be able to access high quality training in epidemiology. Creating a consensus document of specific competencies is a step towards ensuring quality doctoral education for all students in epidemiology.

This workshop will take place in two parts. The first part will be conducted virtually as a pre-conference workshop for the SER mid-year meeting. At this workshop, Hailey Banack and Katie Lesko will facilitate an open forum discussion to create a master-list of specific topics for doctoral students in epidemiology. The second part of the workshop will be conducted in person as a pre-conference workshop for SER 2023 in Portland, Oregon. This workshop will be focused on discussing, synthesizing, and revising the initial set of competencies from the mid-year meeting. The second workshop will be structured as a round-table discussion to maximize participation and facilitated by Drs. Lesko and Banack as well as a senior faculty member, Dr. Laura Rosella, PhD Program Director, University of Toronto. Written materials from the first workshop will be circulated for review in advance of the in-person meeting in Portland. The three workshop facilitators will also lead breakout groups focused on building consensus and ranking the priority of topics to be included in the competencies. In between the two workshops, we will create a web-based survey informed by data gathered at our first meeting, to collect information on this topic broadly from SER members. The results of this survey will be shared at the second (in-person) meeting for discussion.

To ensure the workshops are productive and participants have the requisite skills to contribute to the development of competencies, we will ask interested individuals to fill out a very brief application. The application will include only 1-2 questions, asking participants to describe their background and how they will contribute to the workshop. An important goal for this workshop is to include a diverse group of participants to get different perspectives on 'required topics' for epidemiology students. This workshop is aimed primarily for faculty with expertise teaching doctoral students but will also include student representatives. We will aim to recruit specific senior faculty members with interest in doctoral training to contribute to the workshop, some of whom participated in the SER 2022 workshop on teaching advanced epidemiologic methods (e.g., Tim Lash, Chanelle Howe, Rich MacLehose). We hope to include individuals from a variety of different epidemiology programs in the US, Canada, and internationally; from big schools of public health and small departments of epidemiology; different eras of epidemiology training; racial and ethnic diversity; individuals from differing sex/gender perspectives; and varying areas of substantive expertise within epidemiology.

Speakers

Hailey Banack
University of Toronto

Catherine Lesko
Johns Hopkins Bloomberg School of Public Health

Laura Rosella
Associate Professor
University of Toronto

Introduction to parametric & semi-parametric estimators for causal inference

8:00 AM - 8:00 AM, Jun 12

Workshop (Virtual) Pre-Co…

WORKSHOP DATE: April 21, 10:00am - 2:00pm Mountain Time

This workshop will introduce participants to the Causal Roadmap for epidemiologic questions:

1) clear statement of the research question

2) definition of the causal model and parameter of interest

3) assessment of identifiability that is, linking the causal effect to a parameter estimable from the

observed data distribution

4) choice and implementation of estimators including parametric and semiparametric approaches

5) interpretation of findings. The focus will be on estimation with a simple substitution estimator (parametric G-computation), inverse probability of treatment weighting (IPTW), and targeted maximum likelihood estimation (TMLE) with Super Learner. Participants will work through the Roadmap using an applied example and implement these estimators in R during the workshop session.

Speakers

Laura B. Balzer
Associate Professor
University of California, Berkeley

Jennifer Ahern
Professor of Epidemiology, Associate Dean for Research
University of California, Berkeley

R for Epidemiologists

8:00 AM - 8:00 AM, Jun 12

Workshop (Virtual) Pre-Co…

WORKSHOP DATE: May 16, 10:00am - 2:00pm Mountain Time

This workshop will introduce participants to the R statistical computing platform for use in epidemiologic analysis. It is not intended to transform untested novices into R wizards in a mere half-day; rather, the goal will be to introduce the conceptual underpinnings, tools, and external resources that participants will need to overcome barriers to using R that they might encounter on their own, later. The material is designed for epidemiologists who are already familiar performing analyses using other statistical software (e.g. SAS/Stata/SPSS) but who have no first-hand experience with the R language. More specifically, the course will cover 1) basic R syntax, 2) importing data, 3) constructing, cleaning, and manipulating data objects, 4) loading and using external packages, 5) simple statistical modeling, and 6) graphics. Participants must bring a laptop with R installed; the instructor will be available by email beforehand to assist with R installation if difficulties arise.

Speaker

Steve Mooney
Assistant Professor
University of Washington

High-dimensional propensity score and its machine learning extensions in residual confounding control in pharmacoepidemiologic studies

8:00 AM - 8:00 AM, Jun 12

Workshop (Virtual) Pre-Co…

WORKSHOP DATE: May 4, 10:00am - 4:00pm Eastern Standard Time

The use of retrospective health care claims datasets is frequently criticized for lacking complete information on potential confounders. Ultimately, the treatment effects estimated utilizing such data sources may be subject to residual confounding. Digital electronic administrative records routinely collect a large volume of health-related information; and many of whom are usually not considered in conventional pharmacoepidemiological studies. In 2009, a high-dimensional propensity score (hdPS) algorithm was proposed that utilizes such information as surrogates or proxies for mismeasured and unobserved confounders in an effort to reduce residual confounding bias. Since then, many machine learning and semi-parametric extensions of this algorithm have been proposed to exploit the wealth of high-dimensional proxy information properly.

This workshop will (i) familiarize participants with the difference between propensity score vs. hdPS, (ii) demonstrate logic, steps and implementation guidelines of hdPS utilizing an open data source as an example (using reproducible R codes), (iii) explain the rationale for using the machine learning extensions of hdPS, and their statistical properties, and (iv) discuss advantages, controversies, and hdPS reporting guidelines while writing a manuscript. Attendees should have prerequisite knowledge of multiple regression analysis and working knowledge in R (e.g., basic data manipulation and regression fitting).

Speaker

Ehsan Karim
University of British Columbia

Tue, Jun 13, 2023

8:30 AM

Mentor Training for Epidemiologists

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Although mentoring relationships are critical for academic and career success, mentors are often left to learn how to carry out their part in these relationships through trial and error. And yet, there is a growing movement to prepare mentors more deliberately. The National Academies of Science, Engineering and Medicine released a report in 2019 titled 'The Science of Effective Mentorship in STEMM.' This report documents the wealth of research on factors that contribute to effective mentorship, and ways that mentors can build these skills. The Center for the Improvement of Mentoring Experiences in Research (CIMER) has developed and tested curricula that use this evidence-based approach to promote effective mentorship. In this workshop, CIMER-certified facilitators will use familiar scenarios, activities, and small-group discussions to allow participants to reflect on their own mentoring experiences and work through mentoring challenges. Workshop content will include a brief summary of the science of mentorship and focus on key mentoring competencies, including maintaining effective communication, aligning expectations, assessing understanding, and addressing equity and inclusion. Participants will refine their individual mentoring styles and leave with concrete plans, tools, and resources. NOTE: The workshop is aimed at individuals with at least some experience as a mentor including early-, mid-, and late-career faculty as well as advanced postdoctoral fellows.

Speaker

Brittany Charlton
Associate Professor
Harvard Medical School/Harvard T.H. Chan School of Public Health

Causal inference for time-varying exposures

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

This workshop applies the Causal Roadmap to estimate the causal effects with time-vary exposures, such as the cumulative effect of an exposure over time and the effects on survival-type outcomes with right-censoring. We will cover longitudinal causal models, identification in the presence of time-dependent confounding, and estimation of joint treatment effects using G-computation, inverse probability weighting (IPW), and targeted maximum likelihood estimation (TMLE) with Super Learner. During the workshop session, participants will work through the Roadmap using an applied example and implement these estimators with the ltmle R package. Prior training in causal inference with a single time-point exposure is recommended.

Speakers

Laura B. Balzer
Associate Professor
University of California, Berkeley

Lina Montoya
UNC

Causal Mediation Analysis

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Causal mediation analysis can provide a mechanistic understanding of how an exposure impacts an outcome, a central goal in epidemiology and health and social sciences. However, rapid methodologic developments coupled with few formal courses presents challenges to implementation. Beginning with an overview of classical direct and indirect effects, this workshop will present recent advances that overcome limitations of previous methods, allowing for: (i) continuous exposures, (ii) multiple, non-independent mediators, and (iii) effects identifiable in the presence of intermediate confounders affected by exposure. Emphasis will be placed on flexible, stochastic and interventional direct and indirect effects, highlighting how these may be applied to answer substantive epidemiological questions from real-world studies. Multiply robust, nonparametric estimators of these causal effects, and free and open source R packages (medshift and medoutcon) for their application, will be introduced.

To ensure translation to real-world data analysis, this workshop will incorporate hands-on R programming exercises to allow participants practice in implementing the statistical tools presented. It is recommended that participants have working knowledge of the basic notions of causal inference, including counterfactuals and identification (linking the causal effect to a parameter estimable from the observed data distribution). Familiarity with the R programming language is also recommended.

Speakers

Kara Rudolph
Assistant Professor
Columbia University

Nima Hejazi
Harvard

Ivan Diaz
NYU

Epidemiological analysis of electronic health records

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Increasingly data mined from the electronic health record (EHR) are being used for secondary analysis in epidemiological research. But more data does not equate to better quality research. In this workshop, we will cover the fundamentals of working with EHR data and designing and conducting valid epidemiological analyses. The workshop will be half didactic lecture and half interactive group exercises. Participants will provide planned or active EHR-based research questions in advance, which form the basis of the group exercises. Each small group will identify challenges and opportunities answering the research questions with data from the EHR. Following the breakout groups, all participants will reconvene to discuss the strengths and weaknesses of the research, with specific recommendations offered to ensure success.

Speakers

Neal Goldstein
Drexel University

Milena Gianfrancesco
Pfizer, Inc.; UCSF

Interaction Analysis

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

This workshop will provide a broad introduction to the topic of interaction. We will discuss interaction on additive and multiplicative scales, and their relation to statistical models (e.g. linear, log-linear and logistic models). We will describe procedures for interaction when logistic models are fit to data but when additive and not just multiplicative measures of interaction are desired, and how the two can be simultaneously mapped onto an interaction continuum. We discuss issues of confounding for interaction analyses and how whether control has been made for only one or both of two exposures affects interpretation. We further discuss conditions under which interaction gives evidence of synergism within the sufficient cause framework, when interaction is robust to unmeasured confounding, methods attributing effects to interaction, selecting optimal subgroups for treatment, and power and sample size calculations for interaction. Illustrations will be given from environmental, genetic, and infectious disease epidemiology. Software code will be provided.

Speaker

Tyler VanderWeele
John L. Loeb and Francis Lehman Loeb Professor of Epidemiology
Harvard University

R for Epidemiologists

8:30 AM - 12:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

This workshop will introduce participants to the R statistical computing platform for use in epidemiologic analysis. It is not intended to transform untested novices into R wizards in a mere half-day; rather, the goal will be to introduce the conceptual underpinnings, tools, and external resources that participants will need to overcome barriers to using R that they might encounter on their own, later. The material is designed for epidemiologists who are already familiar performing analyses using other statistical software (e.g. SAS/Stata/SPSS) but who have no first-hand experience with the R language. More specifically, the course will cover 1) basic R syntax, 2) importing data, 3) constructing, cleaning, and manipulating data objects, 4) loading and using external packages, 5) simple statistical modeling, and 6) graphics. Participants must bring a laptop with R installed; the instructor will be available by email beforehand to assist with R installation if difficulties arise.

Speaker

Steve Mooney
Assistant Professor
University of Washington

1:00 PM

A Primer on Quantile Regression for Epidemiologists

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

Quantile regression is a powerful method of evaluating how an exposure affects the entire outcome distribution; this is distinct from analyses on how exposures impact the means, which are more common in the epidemiological literature. However, quantile regression remains underused in epidemiology. Our proposed workshop has two aims: 1) introduce participants to quantile regression with a focus on distinguishing between estimators targeted at the conditional versus marginal outcome distribution; and 2) equip participants to conduct quantile regression analyses in statistical packages such as R or Stata. Our workshop will have three phases. Phase 1 will be theoretically oriented and will provide participants with knowledge of quantile regression theory. Phase 2 will be empirically oriented and will provide participants with hands-on experience of fitting quantile regressions to a dataset we will provide. Phase 3 will sketch extensions to quantile regressions, such as quantile regression estimators for longitudinal data. Phases 1 and 2 will form the bulk of the workshop. All sessions will be interactive to encourage hands-on experience and learning. Our workshop is targeted at beginners, i.e., individuals with no prior experience of using quantile regressions. However, we do presume that participants have a working knowledge of linear regressions since we will use mean models (ordinary least squares regression) as the starting point to develop ideas about quantile regressions.

Speakers

Aayush Khadka
Postdoctoral Scholar
University of California San Francisco

Anusha Vable
UCSF

Jillian Hebert
University of California, San Francisco (UCSF)

Causal inference and competing events

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

A competing risk event is any event that ensures the outcome of interest cannot subsequently occur. For example, in a study where prostate cancer death is the primary outcome, a fatal stroke is a competing event because an individual cannot die of cancer once they have died of stroke. When competing events are present, many possible definitions of a causal effect may be considered. Choosing a causal effect of practical interest requires understanding the interpretation of different counterfactual contrasts and the assumptions needed to identify them using the study data and subject matter knowledge. This workshop will introduce participants to a counterfactual framework for causal inference in the face of competing events. Participants will learn how to articulate and interpret different types of causal effects when competing events are present, and approaches to estimating them under transparent assumptions with the aid of causal diagrams. In part I, we cover counterfactual contrasts of popular parameters from the competing risks literature, including contrasts of cause- specific and subdistribution hazards, and cause-specific cumulative incidences and their relation to total and controlled direct effects from the mediation literature. In part II, we introduce the separable effects, new causal effect definitions that may be of particular clinical relevance in competing events settings. Theoretical concepts will be illustrated via practical examples and R code provided.

Speakers

Jessica Young
Associate Professor
Harvard Medical School

L. Paloma Rojas-Saunero
Postdoctoral fellow
Epidemiology department, Fielding School of Public Health, UCLA

Mats Stensrud
EPFL

Intro to Spatial Analysis & GIS for Spatial Epidemiology in R

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

Measurements of neighborhood social determinants of health are increasingly urgent in modern public health thinking, and are thought to drive and/or reinforce racial, social, and spatial inequities. Sometimes this necessitates an investigation of neighborhood health patterns, like premature mortality at the census tract scale. Sometimes we're interested in area factors like poverty, access to affordable housing, distance to the nearest health provider, or polluting factories -- and how these factors magnify, moderate, or mediate individual level health. Spatial analysis is an important tool in uncovering the ways in which where people live, work, and play can influence health outcomes. This workshop will present an introduction to spatial analysis, mapping, and GIScience for health applications & spatial epidemiology using the open source R environment. During this interactive workshop, participants will be introduced to basic concepts in spatial data analysis, generate thematic maps visualizing neighborhood-level health phenomena, geocode and integrate community resource locations (such as health providers, schools, or sources of pollution) for further exploration, and calculate new spatial access variables. We will review how research questions and hypotheses are updated at each stage of exploratory spatial data analysis. Participants should have a basic understanding of the R environment but no experience is necessary with spatial data or R-spatial libraries.

Speakers

Marynia Kolak
University of Illinois at Urbana

Qinyun Lin
Senior Lecturer
University of Gothenburg

Media Training: Skills for Communicating Research Findings

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

The skills needed to effectively communicating research findings require training and practice. This workshop will help epidemiologists improve their ability to effectively communicate their research findings to the media, and through them to the public and specific audiences, such as clinicians, public health practitioners, and other researchers. While this workshop will focus on basic skills of communicating to the media, the skills can also be applied when disseminating information to community partners and other audiences. In addition to a didactic portion, there will be ample opportunity to practice message development and engage in mock interviews. We will break into groups in order to facilitate deeper learning from each other.

Speakers

Maura Kate Costello
National Cancer Institute, Division of Cancer Epidemiology and Genetics

Elise Tookmanian
National Cancer Institute, Division of Cancer Epidemiology and Genetics

Reproducible Epidemiology in R

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

Have you ever painstakingly copied and pasted output into individual table cells, only to find yourself starting from scratch when you receive an updated dataset from your collaborators? Have you sat twiddling your thumbs while rerunning all of your analyses just because you added a single covariate to a regression model? In this workshop, we will learn techniques for avoiding these frustrating, slow, and error-prone processes. We will focus on conducting reproducible analyses using the 'targets' package in R and on creating reproducible documents using RMarkdown and/or Quarto. We will develop a workflow that involves cleaning data, fitting models, creating figures and tables, and extracting statistics to report in a manuscript. We'll then see how we can fiddle with various steps of the workflow while maintaining reproducibility. Participants should have previously used R for analysis, but do not need to be experts.

Speaker

Louisa Smith
Assistant Professor
Northeastern University

The ABC's of M-estimation

1:00 PM - 5:00 PM, Jun 13

Workshop (Onsite) Pre-Co…

M-estimation is a generalization of maximum likelihood that allows a set of estimating equations to be stacked together and can be used for a variety of epidemiologic measures. Importantly, M-estimators offer a simple way to estimate the variance for complicated measures. The sandwich variance estimator allows the uncertainty of parameters in one estimating equation to propagate into the uncertainty of another estimating equation. Therefore, more computationally demanding procedures, like bootstrapping or Monte Carlo, can be avoided. This feature is particularly important for many common estimators in causal inference (e.g., inverse probability weighting) which involve the estimation of so-called 'nuisance' parameters (e.g., propensity scores). Finally, M-estimators can be implemented programmatically, avoiding tedious derivative calculations or matrix algebra. Despite advantages, uptake of M-estimation has been limited in the epidemiology community. To address this deficit, we propose a pre-conference workshop introducing the basics of M-estimation and applying M-estimators in a series of examples (e.g., regression, inverse probability weighting, data fusion, etc.). Workshop attendees will gain an understanding of M-estimation, and experience in applying M-estimators in common epidemiologic problems. Support for SAS, R, and Python will be provided for the workshop.

Speakers

Paul Zivich
University of North Carolina - Chapel Hill

Rachael Ross
University of North Carolina at Chapel Hill

Stephen Cole
UNC

5:30 PM

An introduction to directed acyclic graphs: What you never wanted but needed to know about bias and didn't even know to ask.

5:30 PM - 7:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

This workshop will introduce participants to directed acyclic graphs (DAGs). We will review the basic principles and show how they can be used to determine appropriate sets of variables for estimating total causal effects of exposure (treatment). Participants will work through concrete examples of increasing complexity. We will also introduce how DAGs can be used in more advanced applications, including natural and controlled direct and indirect effects and study design.

Speaker

Ian Shrier
Associate Professor
Centre for Clinical Epidemiology, Lady Davis Institute, McGill University

Developing Competencies for Doctoral Students in Epidemiology

5:30 PM - 7:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

The overall objective of this two-part workshop is to develop a set of specific competencies for doctoral students in epidemiology. We use competencies in this context to refer to a set of topics that doctoral students in epidemiology programs should demonstrate some mastery of prior to completing their training. The Council on Education in Public Health (CEPH) has formal competencies for graduate programs in public health, but their criteria are very broad and not specific to graduate programs in epidemiology. Moreover, CEPH accredits DrPH programs, not PhD or ScD programs in epidemiology. Recently, Alison Abraham and colleagues developed a set of basic competencies for epidemiologists. However, it is difficult to translate their competencies (e.g. "Competency to collect valid and relevant high-quality data") into specific topics to include in doctoral training programs in epidemiology, which limits their utility for faculty members tasked with teaching students.

Through this workshop, we aim to develop expert consensus around topics that PhD students in epidemiology "must know" before graduating. The end-goal of this workshop is to create a written document to be submitted for publication and dissemination to standardize best practices in epidemiology education. This fits in with the broader theme of institutional equity and diversity that is emphasized by SER: students at all institutions should all be able to access high quality training in epidemiology. Creating a consensus document of specific competencies is a step towards ensuring quality doctoral education for all students in epidemiology.

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Speakers

Hailey Banack
University of Toronto

Catherine Lesko
Johns Hopkins Bloomberg School of Public Health

Laura Rosella
Associate Professor
University of Toronto

Eye-Tracking Data Analysis for Epidemiological Context

5:30 PM - 7:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Eye-tracking data have grown in popularity in behavioral studies but have recently gained traction in other fields, such as neuroscience and education. While their use in epidemiological studies is underexplored, they are value-adding components for various epidemiological models. This workshop will cover the basics of designing eye-tracking studies, collecting, and analyzing eye-tracking data within epidemiological contexts. The workshop will include a didactic lecture and an interactive practice activity. Participants will be provided with short reading materials before the class to introduce them to eye-tracking measures. They will identify research questions that can be answered using eye-tracking data.

Speaker

Gesulla Cavanaugh
Assistant Dean of Research and Assessment
Nova Southeastern University

How to make a picture worth a thousand words: Effectively communicating your research results using statistical graphics

5:30 PM - 7:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Epidemiologists can use statistical graphics to understand our data and to guide us toward correct inferences. Well-designed graphics can also be powerful tools for communicating our study findings. However, while statistical software makes it easy to produce certain types of figures, the default options leave much to be desired. Too often, the result is figures that distract, confuse, or even distort data. In this workshop, participants will first learn the fundamentals of effective data visualization. This includes selecting appropriate chart types, drawing attention to the relevant data, using effective visual cues, and providing helpful context. We will discuss how to put these principles into practice, leading viewers to make comparisons, identify trends, and find meaningful correlations. Finally, we will walk through techniques for going beyond the default settings of various software packages to produce well-designed figures.

Speaker

Mike Jackson
Freelance epidemiologist
EpiAssist, LLC

Positionality for Epidemiologists: Exploring the Role of Our Social Identities in Quantitative Research

5:30 PM - 7:30 PM, Jun 13

Workshop (Onsite) Pre-Co…

Who we are, who we are in community with, and where we are from all play a role in the science we do- from the research questions we ask to the evidence we use to back our claims. Positionality refers to how our social identities and lived experiences not only influence the choices we make throughout the research process but also how those factors shape how others view us, our work, and the power we hold in a specific research context. The ways in which our perception of self/others, experiences inside/outside of the academy, and power dynamically interact has a direct impact on us as epidemiologists and the research we conduct. To address the bias that we as researchers may be unknowingly introducing into our science, there is a need to develop a practice of critical self-reflection in our field. This workshop aims to build an understanding of the role of positionality in epidemiological research, examine how our social identities influence our work, and support participants through the development of their own positionality statements.

Speakers

Jennifer Cruz
PhD Candidate
Harvard T.H. Chan School of Public Health

Shoba Ramanadhan
Assistant Professor
Harvard T.H. Chan School of Public Health

Jarvis Chen
Harvard T.H. Chan School of Public Health

7:30 PM

Poster Session 1 and Reception

7:30 PM - 8:30 PM, Jun 13

Exhibit Hall

Poster Reception

To view individual abstracts, visit the Abstract Database.

Wed, Jun 14, 2023

6:30 AM

SER/SPER Fun Run

6:30 AM - 7:30 AM, Jun 14

Student and Pos…

Registration is required. Click here for more details.

7:00 AM

Breakfast with the Experts

7:00 AM - 7:45 AM, Jun 14

Breakfast Student and Postdoc

This early morning event is an informal opportunity for students and post-docs to have a conversation with scientific experts in our field. You and several of your peers will be teamed up with two experts to discuss anything that interests you from the current topics of the field or research area to advice on career development and advancement. It's a great opportunity to meet peers and epidemiology experts in a fun and casual setting. No breakfast will be provided so grab some food on your way. We hope to see you there.

Pre-registration is required.
Click here to register

Organizer

Joelle Atere-Roberts
SER Student and PostDoc Committee

R

Rachael Ross
University of North Carolina at Chapel Hill

Expert

M

Maria Glymour
Boston University School of Public Health

F

Farzana Kapadia
NYU/GPH

Jay Kaufman
Professor
McGill University

A

Andrew Olshan
Univ. Of North Carolina

Awards Committee

7:00 AM - 7:45 AM, Jun 14

Sunstone

Committee Mee…

Communication Committee

7:00 AM - 7:45 AM, Jun 14

Pearl

Committee Mee…

8:00 AM

Plenary Session 1

8:00 AM - 9:45 AM, Jun 14

Salon A-F

Plenary

Session Chair: Jennifer Ahern

Presenters:
Sharia Ahmed, SPC President

Onyebuchi Arah, SER President

Mary Haan, Distinguished Service to SER Award Winner

Kent Thornburg, Keynote Speaker
"Epidemiology and Basic Science Underlie Developmental Disease Research"

Speakers

Jennifer Ahern
Professor of Epidemiology, Associate Dean for Research
University of California, Berkeley

Sharia M Ahmed
University of Utah

Onyebuchi Arah
UCLA

Kent Thornburg
Interim Director, Knight Cardiovascular Institute
Oregon Health & Science University

9:45 AM

Break

9:45 AM - 10:15 AM, Jun 14

Exhibit Hall

Break

10:15 AM

Successful models for data sharing and ensuring productive collaborations with state and local health departments: Lessons from peer navigator overdose prevention interventions

10:15 AM - 11:45 AM, Jun 14

Columbia

Symposia

Observational studies and randomized trials can benefit greatly from the use of routinely collected data by state and local government agencies. For example, linkage to and analysis of administrative data can improve exposure and outcome assessment, minimize missing data, and mitigate selection biases involving loss to follow-up. However, there are numerous structural, logistical, legal, and philosophical barriers that can adversely impact productive data sharing relationships between academic researchers and governmental agencies. In this symposium, we will hear from four researchers who have established highly productive collaborations with a variety of state agency partners. Using (1) emergency department-based peer navigator overdose prevention interventions and (2) 911 dispatch and pre-hospital emergency medical care as case studies, they will provide audience members with critical insights into developing and sustaining data sharing relationships, and explore the implications thereof. They will discuss barriers to accessing, linking, and analyzing administrative data and share approaches for overcoming these challenges. This tutorial-style symposium will be of particular value to early- and mid-career researchers who are interested in building collaborative relationships with state and local health departments to conduct cutting-edge epidemiologic research.

Chair(s): Brandon Marshall

Presenters:

• Karla Wenger- Philosophical and epistemological reflections on using administrative data for research purposes

• Dennis Watson- Navigating data collection with multiple state agencies in the POINT pragmatic clinical trial

• Alice Welch- Collaborative research on the effectiveness of an innovative health department program: Randomized clinical trial of the NYC DOHMH Relay initiative for secondary prevention of overdose

• Francesca Beaudoin- Leveraging statewide administrative data to evaluate the effect of a peer-led behavioral intervention for emergency department patients at high risk of opioid overdose

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Speakers

Brandon Marshall
Professor
Brown University

Karla Wagner
University of Nevada, Reno

Dennis Watson
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Francesca Beaudoin
Associate Professor of Epidemiology
Brown University

Alice Welch
NYC Department of Health & Mental Hygiene

Can you teach an old dog new tricks? Modern perspectives on the case control study

10:15 AM - 11:45 AM, Jun 14

Salon G-H

Symposia

In 1992, Wacholder and colleagues published three papers in the American Journal of Epidemiology describing the principles for the selection of control for case control studies. These papers were published over thirty years ago but they are still an important resource for teaching epidemiology students and are considered foundational for our understanding of case control studies. Since the 1990s, however, much has changed in the availability, size, and diversity of data sources for case control studies. There have also been tremendous advances in computing power and resource sharing, facilitating novel case-control studies that address prior limitations of case-control studies. The objective of this symposium is to highlight modern applications of the case control study design and showcase methodologic advancements in case control studies. The case control study is also frequently maligned in epidemiologic teaching as a “less valid” study design. Epidemiologists often view case control studies as inferior, or inherently more biased, than randomized trials or cohort studies. In this symposium, we will also feature a point-counterpoint debate on the merits of case control studies. Team Platt (led by Rob Platt, McGill University) will face off against Team Fox (led by Matt Fox, Boston University) in a lively and engaging debate, featuring audience participation, on the merits of using case control studies in a modern context.

Chair(s): Hailey Banack

Ellicott Matthay

Presenters:

• Martha Werler- Historical Perspectives on Case Control Studies from Wacholder to Today

• Catherine Li- Conducting density-sampled case-control studies using survey data with complex sampling designs

• Jonathan Schildcrout- Two-Phase, Generalized Case-Control Designs for the Study of Quantitative Longitudinal Outcomes

• Sengwee (Darren) Toh- Reproducing Protocol-Based Studies Using Parameterizable Tools-Comparison of Analytic Approaches Used by Two Medical Product Surveillance Networks

• Michael Garber- At-risk-measure Sampling in Case-Control Studies with Aggregated Data

• Robert Platt- Discussant: Making the case for case-control studies

• Matthew Fox- Discussant: Who needs case-control studies?

Speakers

Hailey Banack
University of Toronto

Ellicott Matthay
Assistant Professor
Division of Epidemiology, Department of Population Health at the New York University Grossman School of Medicine

Martha Werler
BU School of Public Health

Catherine Li
MD/PhD Student
University of North Carolina at Chapel Hill

Jonathan Schildcrout
Professor
Vanderbilt University

Michael Garber
University of California San Diego / Colorado State University

Robert Platt
Albert Boehringer I Chair in Pharmacoepidemiology
McGill University

Matthew Fox

Darren Toh
Professor
Harvard University

A 25 Year Retrospective on Multilevel Social Epidemiology

10:15 AM - 11:45 AM, Jun 14

Salon E

Symposia

In the late 1990s, multilevel modeling burst into epidemiology journals with bold promises about distinguishing contextual from compositional effects, and solving hierarchical inference problems with random effects. Rather than treating hierarchical structure as a mere statistical nuisance, as GEE models do, social epidemiologists insisted that random effects would solve ecological and cross-level inference problems, and that structural inequalities could be revealed in the heterogeneity of effects over contexts. Neighborhood studies became a ubiquitous feature of the literature, and many leading social epidemiologists including Diez Roux, Subramanian and Kawachi become prolific exponents of this exciting statistical methodology. But now a quarter of a century later, what has become of this whole movement? What is the place of multilevel models in our field now? This symposium presents a retrospective across a quarter century of this work, including the neglected "hybrid" model, the general displacement of random effects with fixed effects (especially TWFE models in differences-in-differences analyses), and highlighting the current promise of multilevel models today as the leading methodology for operationalizing intersectionality. Speakers span the range from an original pioneer of the methodology to the next generation of innovators who have adapted the models for our times.

Chair(s): Jay Kaufman

Presenters:

Sam Harper A quarter century of multilevel social epidemiology

Jay S Kaufman The Rise and Fall of Fixed Effects

Ashley S Hirai The Butter and the Butter Money

Dana Goin The Battle of the Event Studies

Clare R Evans How random effects MAIHDA comeback to address intersectionality

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Speakers

Jay Kaufman
Professor
McGill University

Ashley Hirai
HRSA, Maternal and Child Health Bureau

Dana Goin
UCSF

Clare Evans
University of Oregon, Department of Sociology

Sam Harper
McGill University

Does Machine Learning Work?: Designing Better Simulation Studies for Inference

10:15 AM - 11:45 AM, Jun 14

Mt Hood

Symposia

Machine learning (ML) methods are an increasingly important tool for epidemiologists. Before relying on any algorithm, a scientist must first establish whether it works. This requires first articulating what it means for a method to "work." In settings where ML is used to adjust for validity threats (e.g., confounding), ideal properties include statistical consistency, low bias, low mean squared error, and nominal confidence interval coverage.

Outside of theoretical evaluations, simulation studies are commonly deployed to evaluate if a method works. Simulations provide an opportunity to experimentally evaluate how a method will perform under well-defined conditions. Despite ML methods' abilities to flexibly model complex data sets, simulation studies are routinely constructed using simple parametric data generating mechanisms. Even if an ML method is found to perform well in these settings, whether it will perform well in scenarios not governed by simple parametric data generating mechanisms will remain unknown.

Recently, Generative Adversarial Networks (GAN) and Credence approaches have been proposed as alternatives to simple parametric data generating mechanisms. These approaches focus on generating simulated data that more closely approximates real data encountered in epidemiology. This symposium will focus on the problem of designing of simulation studies to evaluate ML methods via an introduction to and discussion of the GAN and Credence approaches to simulation design

Chair(s): Ashley Naimi

Paul Zivich

Presenters:

• Paul Zivich- Problem Statement

• Jonas Metzger- Using Wasserstein Generative Adversarial Networks for the Design of Monte Carlo Simulations

• Carlos Varjao- Validating Causal Inference Methods

• Ashley Naimi- Introduction

Speakers

Ashley Naimi
Emory

Paul Zivich
University of North Carolina - Chapel Hill

Carlos Varjao
Senior Economist
Amazon

Jonas Metzger
PhD Economics, PhD Minor Computer Science Candidate
Stanford University

Measuring Sex, Gender, and Sexual Orientation in Epidemiologic Research

10:15 AM - 11:45 AM, Jun 14

Salon I

Symposia

Sexual orientation, gender identity, and sex characteristics (SOGISC) are key determinants of health for everyone, not just sexual and gender minority populations. Historically, epidemiologists have rarely collected SOGISC data and, when it has been collected, it has been poorly measured. This measurement is necessary in every epidemiological study to avoid misclassification, identify health disparities, and, more broadly, promote equity and inclusion. Respectful and accurate SOGISC measurement can be difficult due to differences in conceptualization and terminology for these constructs across age cohorts, regions, racial and ethnic groups, and languages; measurement can also be further complicated when it is among sexual and gender minority compared to majority individuals. Contextual factors (e.g., stigma, mistrust) add to this complexity, as do the many methodological issues of identifying changes over time and proxy reporting. In 2022, the National Academies of Science, Engineering, and Medicine (NASEM) released a landmark report that reviewed existing approaches to SOGISC measurement and recommended a set of measures for use by NIH and in other large-scale population surveys. In this symposium, speakers will present and critique the NASEM recommendations, present alternative approaches for various research settings, and identify promising practices for epidemiologists to optimize SOGISC measurement towards advancing health equity.

Chair(s): Brittany Charlton

Ayden Scheim

Presenters:

• Brittany Charlton- Discussant

• Ayden Scheim- Discussant

• Christina Dragon- Measuring Sex, Gender Identity, and Sexual Orientation: Recommendations from the National Academies of Sciences, Engineering, and Medicine

• Karina Walters- Measuring Sex, Gender Identity, and Sexual Orientation Among American Indians and Alaska Natives Populations

• Lauren Beach- Project Recognize: Improving Measurement of Sex, Sexual Orientation, and Gender through Interdisciplinary Community Engaged Research

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Speakers

Brittany Charlton
Associate Professor
Harvard Medical School/Harvard T.H. Chan School of Public Health

Ayden Scheim
Drexel Dornsife School of Public Health

Karina Walters
University of Washington School of Social Work

Lauren Beach
Northwestern University Feinberg School of Medicine

Christina Dragon
National Institutes of Health

Emerging Approaches to Investigating Climate Health Disparities

10:15 AM - 11:45 AM, Jun 14

Meadowlark-Douglas

Symposia

As the climate crisis worsens, populations across the world are at higher risk of exposure to extreme heat, disasters, and air and water pollution. These risks are not evenly distributed, as in many cases the people who are least responsible for the climate crisis end up bearing the brunt of its impacts. Population health researchers must generate studies to help us understand how to protect the health of the most vulnerable and to mitigate or eliminate health disparities in a changing climate across diverse geographies and populations. Through this symposium, a partnership between SER and the International Society for Environmental Epidemiology (ISEE), we will bring together researchers from diverse career stages who are using novel approaches to investigate climate change and health disparities. The session will foster interdisciplinary discussion and highlight environmental and climate justice issues. Panelists include epidemiologists working at the intersections of structural racism and wildfires, extreme heat, and the energy transition, as well as an ecologist with expertise in Indigenous wildfire science. Such multidisciplinary collaborations can aid our understanding of how complex and changing social and environmental systems impact health and what we can do to eliminate health disparities.

Chair(s): Joan A. Casey and Tamarra James-Todd

Presenters:

• Carina Gronlund- Preventing "weathering": increasing housing weatherization an dindoor thermal comfort in the U.S. to reduce disparities in climate impacts

• Daniel Carrion- Heat and the home environment: (in)equity in the energy transition

• Misbath Daouda- Energy transitions: who benefits and how do we know?

• David J.X. Gonzalez- Wildfire smoke and maternal health disparities in California

• Lara Schwarz- Socio-geographical variation in the effects of extreme heat on mortality: a spatial analysis of municipality-level vulnerability across Mexico

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Speakers

Joan A. Casey
Columbia Mailman School of Public Health

Daniel Carrion
Assistant Professor of Environmental Health Sciences
Yale School of Public Health

Misbath Daouda
PhD candidate
Columbia Mailman School of Public Health

David Gonzalez
President's Postdoctoral Fellow
University of California, Berkeley

Carina Gronlund
University of Michigan

Tamarra James-Todd
Mark and Catherine Winkler Associate Professor
Harvard T.H. Chan School of Public Health

Lara Schwarz
UCSD

The Real World: Portland

10:15 AM - 11:45 AM, Jun 14

Salon F

Symposia

This symposium will consist of a series of case studies, illustrating the real world challenges, solutions, and open problems in Epidemiology. The presentation format will be inspired by The Real World, a reality show on MTV (1992- 2017):

"This is the true story... of seven [researchers] ... picked to [give a presentation]... to find out what happens... when people stop [making assumptions] ... and start getting REAL - This is the Real World: Portland!"

Chair(s): Laura Balzer

Kara Rudolph

Presenters:

• Jade Benjamin-Chung- Targeted malaria interventions with spillover effects: new designs needed?

• David Benkeser- Sewing the parachute while we're falling: a COVID-19 vaccine story

• Alejandra Benitez- Clustering, weighting, & estimating: lessons from the Preterm Birth Initiative (PTBi)

• Ivan Diaz- When risk are competing, treatments are poorly support, & timepoints are many

• Maria Glymour- Estimating effects of statin treatment on dementia risk in a large, diverse, electronic health record database

• Tarik Benmarhnia- When time trends are more than a source of bias in climate epidemiology

• Jennifer Ahern- Discussant

Speakers

Laura B. Balzer
Associate Professor
University of California, Berkeley

Kara Rudolph
Assistant Professor
Columbia University

Jade Benjamin-Chung
Stanford University

David Benkeser
Emory University Rollins School of Public Health

Alejandra Benitez
Statistical Scientist
Genentech

Ivan Diaz
NYU

Maria Glymour
Boston University School of Public Health

Tarik Benmarhnia
Associate Professor
University of California San Diego

Jennifer Ahern
Professor of Epidemiology, Associate Dean for Research
University of California, Berkeley

10:45 AM

Emerging Perspectives on Selection Bias

10:45 AM

Emerging Perspectives on Selection Bias

10:45 AM - 11:45 AM, Jun 14

Salon B-D

Symposia

Selection bias is a fundamental concept in epidemiologic methods, and it is one of the most important threats to the validity of applied epidemiologic research. However, it remains stubbornly mysterious. This session will present emerging methodological and applied points of view on selection bias. Theoretical perspectives will include its definition in terms of potential outcomes, its representation with causal graphs, its relationship to missing data, its occurrence in longitudinal data, its relationship to generalizability and transportability, and the role played by effect modification. Applications will include coronary artery surgery and measurement of health disparities as well as teaching and communication about selection bias. This session will have four speakers with approximately 20 minutes each to present (15 minute presentation with 5 minutes for discussion split between the end of the talk and the end of the session) and a chair who will also serve as a discussant.

Chair(s): Issa Dahabreh

Presenters:

• Haidong Lu- Epidemiologic Rethinking on Selection Bias

• Chanelle Howe- Quantifying a Health Disparity: Considerations Concerning Selection Bias

• Sarah E. Robertson- Examining Heterogeneity when Extending Causal Inferences to a New Population

• Eben Kenah- A Potential Outcomes Approach to Selection Bias

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Speakers

Issa Dahabreh
Department of Epidemiology, Harvard T. H. Chan School of Public Health

Haidong Lu
Yale University

Chanelle Howe
Associate Professor of Epidemiology
Brown University School of Public Health

Sarah Robertson
Harvard T.H. Chan School of Public Health

Eben Kenah
The Ohio State University

12:15 PM

Recruitment Fair

12:15 PM - 1:15 PM, Jun 14

Mt. St. Helens

Lunchtime Student and Postdoc

Visit the 2023 SER Recruitment Fair to interact with organizations and hear about potential openings!

Click Here to register

Brain-"storming" approaches to studying climate change and health

12:15 PM - 1:15 PM, Jun 14

Salon E

Lunchtime

Climate change is the greatest threat to human health of our time. Climate change alters the frequency and behavior of extreme weather events making it harder for communities to prepare and respond to increasingly unpredictable circumstances. Climate-change-fueled weather events can disrupt access to care and exacerbate environmental hazards, with devastating effects on individuals, communities, and society.

Epidemiologists are increasingly designing studies to understand and address the effects of climate change on health. Yet, as a relatively new subfield of epidemiology, there are several distinct and complex research challenges to consider. In this session, we propose to have a conversation with epidemiologists who are currently engaged in, interested in, or have questions about studying the health impacts of climate change.

• Leticia Nogueira - Overview of the current state of climate change and health research

• Jennifer Lund - Who and what should I study: Involving community in research prioritization

• Tarik Benmarhnia - Where are the data needed to study climate change and health?

• Alexandra White - When do we measure climate-related exposures and outcomes?

• Gila Neta - How do we get climate change and health research funded and our findings implemented?

• Jessica Chubak - Moderator

Speakers

Leticia Nogueira
American Cancer Society

Jennifer Lund
UNC Chapel Hill

Tarik Benmarhnia
Associate Professor
University of California San Diego

Alexandra White
Stadtman Investigator
National Institute of Environmental Health Sciences

Gila Neta
Program Director, Implementation Science
National Cancer Institute

Jessica Chubak
Kaiser Permanente Washington Health Research Institute

Career Pathways for Master's-Level Students and Professionals: Academia, Government, Consulting, Healthcare, & Healthcare Technology

12:15 PM - 1:15 PM, Jun 14

Salon B-D

Lunchtime

SER has a genuine commitment towards supporting and promoting their master's-level professional membership. Sponsored by the SER Membership & Nominations Committee, 2023 will be the fifth year we offer the master's-level symposia as we continue to promote and expand membership of this growing group of scientists.

This session highlights career pathways of master's-level SER members in the areas of academia, government, consulting, healthcare, and healthcare technology. We have recruited panelists from the public and private sector (University of Virginia; University of Massachusetts Medical School-Baystate; California Department of Public Health; Cardno ChemRisk, now Stantec; St. Francis Hospital & Heart Center; and DLH Corporation) to provide a wide variety of perspectives to attendees. Panelists will provide brief overviews of their careers as master's-level epidemiologists; and attendees will have the opportunity to ask questions and engage in discussion.

The overall objective of the proposed Master's-Level Symposia sessions is to highlight the valuable contribution of master's-level students and professionals in epidemiologic research, foster their professional growth inside and outside of SER, and demonstrate SER's devotion to this esteemed portion of the membership.

• Stephanie Brennhofer, MPH, MS, RDN, Panelist

• Alexander Knee- Panelist

• Celeste Romano- Panelist

• Liz Best- Panelist

• Jonathan Weber- Panelist

• William Braxton Jackson- Panelist

Speakers

Megan Kemp
Project Manager/Epidemiologist
GZA GeoEnvironmental, Inc.

Ashley M. Geczik
PhD Candidate
Drexel University

Stephanie Brennhofer
Senior Data Analyst
University of Virginia

Alexander Knee
Program Manager, Epidemiology/Biostatistics Research Core
Baystate Medical Center

Celeste Romano
Epidemiologist
California Department of Public Health

Liz Best
Cardno ChemRisk, now Stantec

Jonathan Weber
St. Francis Hospital & Heart Center; The Mount Sinai Hospital

Braxton Jackson
DLH Holdings Corp.

Beyond research and the academy - using epidemiology for social change

12:15 PM - 1:15 PM, Jun 14

Salon F

Lunchtime

You are an epidemiologist who wants to better advocate for evidence-based policy in your community. How do you best use your skills and voice to influence decision-makers? We spend years learning how to use our technical expertise to answer public health questions. How do we as members of our local communities best influence decision-makers? How do your general epi skills make you one of the most qualified to discuss evidence and advocate for better and more equitable health in your own community? You don't have to be an early childhood education researcher to have something to offer at your local school board meeting. You don't have to be the expert in addiction research to be able to discuss harm reduction strategies with county commissioners. In this session, we'll show you how to use your general epi/public health knowledge to effectively advocate for positive social change in your community, whether or not you are a subject matter expert in the topic. Our four speakers work in a variety of subject areas and interface with policy makers at varying levels of government and social action. They'll share lessons they've learned in how to effectively communicate scientific evidence with local stakeholders and decision makers. Come learn how you can start making a difference with the skills you already have.

• David Gonzalez- Environmental epidemiology and the press

• Lauren Christiansen-Lindquist- Parents and public health policy - school boards to federal legislation

• Misti Crane- Reaching the public: Sharing your expertise to educate, improve health and inform policy

• Heidi Moseson- Providing evidence to healthcare providers and lawmakers

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Speakers

Sharia M Ahmed
University of Utah

William Miller
Ohio State University

David Gonzalez
President's Postdoctoral Fellow
University of California, Berkeley

Lauren Christiansen-Lindquist
Director of Graduate Studies for MPH and MSPH Programs in Epidemiology
Emory University

Misti Crane, MPH
Director of Strategic Communications and Marketing
Ohio State University

Heidi Moseson
Senior Research Scientist
Ibis Reproductive Health

Meeting the moment: Developing a toolbox for policy translation using epidemiologic research

12:15 PM - 1:15 PM, Jun 14

Salon I

Lunchtime

As the COVID-19 pandemic and associated economic and mental health crises have made clear, epidemiologic research plays an important role in informing the development and implementation of public policy. However, epidemiologic training programs rarely include guidance or instruction in policy translation; moreover, methods for effectively communicating epidemiologic work to policymakers and other key stakeholders are rapidly changing in the age of big data, open science, social media, and mis/disinformation. To bridge these gaps, this lunchtime session will feature a panel of speakers from diverse epidemiologic and public health sub-specialities with extensive expertise across the policy translation spectrum. In a series of flash talks, panelists will discuss the overall process of policy translation, how to make epidemiologic research more policy-relevant (e.g., strategic science), important tools for synthesizing and disseminating epidemiologic research to policymakers (e.g., policy briefs), and the role of interdisciplinarity and team science in this work. Panelists will also describe how strategies for translating epidemiologic evidence differ by audience (e.g., policymakers and staff vs. community advocates) and detail their own struggles and successes in policy translation. Across all talks, an emphasis will be placed on how the intersections between epidemiology and public policy can – and should – be leveraged to improve population health and advance health equity.

• Amanda Raffoul– Building your epidemiologist-advocate toolbox: Lessons learned from state-level legislative advocacy

• S. Bryn Austin– Using strategic epidemiology to inform eating disorder prevention and policy efforts

• Brittany Charlton– Sex education, abortion, and LGBTQ rights

• Julia Marcus– Translating epidemiology into clinical practice: Elimination of race-based treatment guidelines for hepatitis C

Speakers

Ariel Beccia
Boston Children's Hospital/Harvard Medical School

Amanda Raffoul
Research Fellow
Boston Children's Hospital

S. Bryn Austin
Harvard T.H. Chan School of Public Health and Boston Children's Hospital

Brittany Charlton
Associate Professor
Harvard Medical School/Harvard T.H. Chan School of Public Health

Julia Marcus
Associate Professor
Harvard Medical School

Live Epidemiology Counts Podcast Recording: Busting Epi Mythbusters

12:15 PM - 1:15 PM, Jun 14

Salmon

Lunchtime

For the first time ever, we will record an episode of the Epidemiology Counts podcast live at the SER annual meeting, giving attendees a chance to be on the show! Join us for a conversation on “busting myths about epidemiology”. We’ll talk about common misconceptions in epidemiology that bug you or things you’ve always wondered about. This is your turn to speak directly to the general public about some epi “real talk”. We encourage attendees at all levels of their career to join us, especially students, trainees, and early career epidemiologists. Topics and guests will be chosen in advance based on submitted ideas.

Speakers

Matthew Fox

Hailey Banack
University of Toronto

Bryan James
Associate Professor
Rush Alzheimer's Disease Center

Who wants to be an Epidemiologist? – 5th edition

12:15 PM - 1:15 PM, Jun 14

Mt Hood

Lunchtime

The four previous editions were all very well attended. The target audience is beginner to intermediate and the session will roughly follow the format of Who Wants to be a Millionaire game show. Contestants are chosen from the audience. Each question has four possible answers. Contestants choosing the correct answer continue to play. Each contestant has three "lifelines" (ask the audience, ask a friend, 50-50 choice). If they make a mistake, they are replaced with another audience member.

One of the 3 judges will explain the correct and incorrect answers. To increase edutainment, we include controversial questions with more than one correct answer, but only one "official" best answer. Contestants can challenge questions but if there is only one answer (i.e. an inappropriate challenge), the contestant is replaced with another audience member. To maximize participation, audience members may challenge a contestant's answer. If correct, the audience member becomes the new contestant, or gets to choose which other audience member will become the new contestant. Other surprises await.

• Lorna Thorpe - Judge
• Jennifer Weuve - Judge
• Miguel Hernan - Judge

Speakers

Ian Shrier
Associate Professor
Centre for Clinical Epidemiology, Lady Davis Institute, McGill University

Jennifer Weuve
Associate Professor of Epidemiology
Boston University School of Public Health

Miguel Hernan
Kolokotrones Professor of Biostatistics and Epidemiology
Harvard T.H. Chan School of Public Health

Lorna Thorpe
Professor and Director, Division of Epidemiology
NYU Grossman School of Medicine

1:45 PM

Geographic Trends in Overdose Mortality in the United States

1:45 PM - 3:15 PM, Jun 14

Salon F

Oral Abstract (O…

Nickolas Zaller - Chair

Vanora Davila - Opioid-Related Polysubstance Overdose Emergency Department Visits in Texas, 2016-2021

Angela Estadt - The effect of fentanyl on state and county-level psychostimulant and cocaine overdose death rates by race in Ohio from 2010-2019: a time series and spatio-temporal analysis

Bennett Allen - Association between overdose prevention center implementation and neighborhood-level misdemeanor drug arrests and complaints for syringe litter in New York City: A synthetic control analysis

Adam Palayew - Are increases in the mortality rate of opioid overdose deaths in the United States due to changes in the incidence rate or the case fatality rate?

Marynia Kolak - Spatiotemporal Dynamics of Opioid Overdose Deaths & Built Environment in NJ from 2015-2018

Alexandra Skinner - Neighborhood-level relationship between eviction and overdose death in Rhode Island

To view individual abstracts, visit the Abstract Database.

Speakers

Nickolas Zaller
Professor
University of Arkansas for Medical Sciences

Angela Estadt
Ohio State University

B

Bennett Allen
Assistant Professor
NYU Grossman School of Medicine

Adam Palayew
PhD Candidate
University of Washington

Marynia Kolak
University of Illinois at Urbana

Alexandra Skinner
Doctoral Student
Brown University School of Public Health

Cancer epidemiology: A life course perspective in the causal era

1:45 PM - 3:15 PM, Jun 14

Salon E

Oral Abstract (O…

Chair: Marvin Langston

Emma E. McGee - Estimating the long-term effects of lifestyle interventions for cancer survivors using target trial emulation and dynamic treatment strategies

C Mary Schooling - Selection bias as an explanation for the observed protective association of childhood adiposity with breast cancer

Jennifer Ritonja - The impact of adiposity across the life course on ovarian cancer risk

Frances Albers - Estimating the effect of pre-diagnosis physical activity on survival after breast cancer: bias, bias and more bias

Bernadette van der Linden - Sequence analysis in life course epidemiology of cancer: conceptualization and application

Jennifer Ritonja - Adult lifetime predicted vitamin D exposure and the risk of ovarian cancer

To view individual abstracts, visit the Abstract Database.

Speakers

Marvin Langston
Stanford University

Emma McGee
PhD Candidate
Harvard T.H. Chan School of Public Health

C Mary Schooling
Professor
City University of New York

Jennifer Ritonja
UniversitÃ© de MontrÃ©al Hospital Research Centre

Frances Albers
University of Melbourne; Cancer Council Victoria

Bernadette van der Linden
Population Health Laboratory (#PopHealthLab), University of Fribourg

Perinatal & Pediatric and-or Reproductive

1:45 PM - 3:15 PM, Jun 14

Salon B-D

Oral Abstract (O…

Chair: Gretchen Bandoli & Elizabeth Suarez

Shalmali Bane - Examining the contribution of socioeconomic disadvantage to racial and ethnic disparities in low-risk cesarean birth in California

Julie M. Petersen - A Deterministic Selection Bias Analysis of the Etiologic Association Between Periconceptional Folic Acid Supplementation and Spina Bifida in Offspring Due to Differential Participation in the National Birth Defects Prevention Study

Annette K Regan - Pregnancy, fetal, and newborn outcomes following a first booster dose of COVID-19 vaccine during pregnancy

Jeremy Brown - Screening to generate hypotheses of potential causes of congenital heart defects using high-dimensional insurance claims data

Jacob Kahrs - A Safety Comparison of Continuing Versus Discontinuing Triptans for Acute Migraine Treatment in the First Trimester of Pregnancy Following Pre-pregnancy Triptan Use

Wei-Lun Tsai - Associations of birth outcomes and air pollution at different time windows of pregnancy and neighborhood greenery

To view individual abstracts, visit the Abstract Database.

Speakers

Gretchen Bandoli
Assistant Professor, Pediatrics
University of California San Diego

Elizabeth Suarez
Instructor
Rutgers University

Julie M. Petersen
Postdoctoral Researcher
Massachusetts Department of Public Health

Shalmali Bane
PhD Candidate
Stanford University School of Medicine

Jeremy Brown
Postdoctoral Research Fellow
Harvard University

Jacob Kahrs
University of North Carolina, Department of Epidemiology

Wei-Lun Tsai
Social Scientist
US Environmental Protection Agency

Annette Regan
Assistant Professor
University of San Francisco

The changing climate and health

1:45 PM - 3:15 PM, Jun 14

Mt Hood

Oral Abstract (O…

Chair: Sandie Ha & Mrudula Naidu

Amy B. Finch - The effect of heat waves on preterm and early-term birth in three western U.S states

Anne M Weaver - Is short-term exposure to heat associated with anxiety and depression? A case-crossover analysis

Jennifer Head - Drought in Western United States displaces and amplifies coccidioidomycosis, an emerging fungal disease: a longitudinal surveillance study

Robbie M. Parks - Wildfire-related PM2.5 and mortality in California

Nina M. Flores - The powerful and the power outages: a climate justice-focused assessment of severe weather-driven power outages in New York State, 2017-2020

Vivian Do - Shedding light on environmental justice and power outages in New York State

To view individual abstracts, visit the Abstract Database.

Speakers

Sandie Ha
Assistant Professor
University of California, Merced

M

Mrudula Naidu
NYU Grossman School of Medicine

Anne Weaver
US Environmental Protection Agency

Jennifer Head
Assistant Researcher and Lecturer
University of California, Berkeley

Robbie M. Parks
Assistant Professor
Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, New York, USA

N

Nina M. Flores
Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY

Vivian Do
PhD student
Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, NY

Amy Fitch
Senior Lecturer
University of Nevada, Reno

Toward causality: challenges and opportunities

1:45 PM - 3:15 PM, Jun 14

Salon G-H

Oral Abstract (O…

Chair: Etsuji Suzuki

Haidong Lu - The Big Four: Target Trial, Target Population, Target Estimand, and Target Validity – A New Paradigm for Making Causal Inferences From Observational Data

Daniel Westreich - Generalizability of causal effects: a potential outcomes perspective

Jennifer Dunne - The application of simulation to quantifying bias: a framework for epidemiologists

Louisa Smith - Evaluating missingness assumptions for items in a frailty index

Maya Mathur - The M-value: A simple sensitivity analysis for bias due to missing data in treatment effect estimates

Aaron Sarvet - Perspectives on harm in personalized medicine

To view individual abstracts, visit the Abstract Database.

Speakers

Etsuji Suzuki
Research Associate Professor
Okayama University

Haidong Lu
Yale University

Daniel Westreich
Professor
UNC-Chapel Hill

Jennifer Dunne
PhD candidate
Curtin University

Louisa Smith
Assistant Professor
Northeastern University

Maya Mathur
Assistant Professor
Stanford University

Aaron Sarvet
EPFL: Ecole Polytechnique Federale de Lausanne

Advancing mental health research toward future population mental health

1:45 PM - 3:15 PM, Jun 14

Salon I

Oral Abstract (O…

Chair: Sun Jae Jung

Ekaterina Sadikova - Delayed high school start times impact depression symptoms: heterogeneous effects in a natural experiment

Yuki Arakawa - Effectiveness of mHealth consultation services for preventing postpartum depressive symptoms: a randomized controlled trial

Julia Dabravolskaj - Using the evidence-informed directed acyclic graph to investigate the association between diet and mental health outcomes in youth

Nate Wright - Ascertaining the validity of suicide classifications from death certificate data by industry/occupation: A validation study

Myanca Rodrigues - Heterogeneity across outcomes reported in randomized controlled trials for older adults wih major depressive disorder: findings from a systematic survey

To view individual abstracts, visit the Abstract Database.

Speakers

Sun Jae Jung
Associate Professor
Yonsei University College of Medicine

Ekaterina Sadikova
Harvard University

Yuki Arakawa
Ph.D. Candidate
The University of Tokyo

Julia Dabravolskaj
Post-doctoral fellow
University of Toronto

Nate Wright
Student
University of Minnesota

Myanca Rodrigues
PhD Candidate
McMaster University

Mendelian and other Methods for Medications

1:45 PM - 3:15 PM, Jun 14

Columbia

Oral Abstract (O…

Chair: Sean Hennessy

Bohan Fan - Genetic proxies for antihypertensive drugs and mental disorders: Mendelian randomization study in European and East Asian populations

Sarah Rothbard - Surrogate Outcomes in the Causal Framework— Are we looking in the wrong place for Alzheimer's Disease prevention?

Celine SL Chui - Association between the use of centrally-acting and non-centrally-acting angiotensin converting enzyme inhibitors and the risk of incident dementia and Alzheimer's disease

Kerollos Wanis - The role of grace periods in comparative effectiveness studies of different medications

Meghan Cupp - Opioid use after hip fracture and one-year risk of subsequent fracture: a self-controlled case series analysis

Fiona Chan - Association of physician characteristics and their competency on prescribing of non-steroidal anti-inflammatory drugs (NSAIDs) among patients with congestive heart failure

To view individual abstracts, visit the Abstract Database.

Speakers

Sean Hennessy
Interim Director, Division of Epidemiology, Department of Biostatistics, Epidemiology & Informatics
University of Pennsylvania

Bohan Fan
PhD student
School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong

Sarah Rothbard
Boston University School of Medicine

Celine SL Chui
The University of Hong Kong

Kerollos Wanis
Department of Surgery, Western University, London, ON, Canada; Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, USA

Meghan Cupp
Research Assistant
Brown University School of Public Health

Fiona Chan
PhD Candidate
McGill University

3:15 PM

Break

3:15 PM - 3:45 PM, Jun 14

Exhibit Hall

Break

3:45 PM

Multilevel determinants of healthy aging in diverse populations

3:45 PM - 5:15 PM, Jun 14

Salon F

Oral Abstract (O…

Chair: Michelle Odden & Liliana Paloma

Xiaojuan Liu - Antihypertensive deprescribing on changes in disability status in VA nursing home residents: A target trial emulation

Peiyi Lu - Food insecurity and memory function among older adult Americans: The Health and Retirement Study

Sirena Gutierrez - Does schooling attained by adult children affect parents' psychosocial well-being in later life? Using Mexico's 1993 compulsory schooling law as a quasi-experiment

Erin E. Bennett - Associations of long-term exposure to fine particulate matter and its components, oxides of nitrogen, ozone, and carbon monoxide with late-life amyloid burden in the Atherosclerosis Risk in Communities (ARIC) study cohort

Rachel Savage - Association of loneliness with healthcare transitions and mortality in community-dwelling older women and men

Marisa Nishio - The Concept of Healthy Ageing Among Japanese Older Adults: Understanding the Relationship Between Functional Ability and Well-being

To view individual abstracts, visit the Abstract Database.

Speakers

Michelle Odden
Associate Professor
Stanford University

Xiaojuan Liu
Stanford University

Peiyi Lu
Postdoctoral Research Scientist
Columbia University

Sirena Gutierrez
Graduate Student Researcher
University of California, San Francisco

Erin Bennett
Senior Research Associate
The George Washington University Milken Institute School of Public Health

Rachel Savage
Scientist
Women's College Hospital

Marisa Nishio
PhD student
Kyoto University

L. Paloma Rojas-Saunero
Postdoctoral fellow
Epidemiology department, Fielding School of Public Health, UCLA

What to Expect When You're Expecting...during a Pandemic: Impacts of COVID-19 on Maternal, Pediatric, & Women's Health

3:45 PM - 5:15 PM, Jun 14

Salon E

Oral Abstract (O…

Chair: Annette Regan & Brianna Agnew

Deborah Karasek - Perinatal health and healthcare utilization during the COVID-19 pandemic: an interrupted time series analysis using the Pregnancy Risk Assessment Monitoring System

Eliza Kinsey - Stressful COVID-19 experiences and the association with postpartum depression

Yilda G. Macias - COVID-19 and vitamin D supplement use by race/ethnicity in the Sister Study cohort

Fausto Andres Bustos Carrillo - The influence of COVID-19 pandemic restrictions on Respiratory Syncytial Virus in young children in the United States

Anna Funk - Household transmission dynamics from asymptomatic SARS-CoV-2-infected children: a multicenter multinational prospective controlled cohort study

Helen O. Pitchik - COVID-19 and child development in a longitudinal cohort

To view individual abstracts, visit the Abstract Database.

Speakers

Annette Regan
Assistant Professor
University of San Francisco

Brianna Agnew
University of San Francisco

Deborah Karasek
Assistant Professor
University of California, San Francisco

Eliza Kinsey
Perelman School of Medicine, University of Pennsylvania

Yilda Macias
University of Washington

F

Fausto Andres Bustos Carrillo
National Institute of Allergy and Infectious Diseases

Anna Funk
Eyes High Postdoctoral Associate
University of Calgary

Helen Pitchik
Postdoctoral Scholar
UC Berkeley

Individuals to Structures: Measuring Racism and Its Effects on Health

3:45 PM - 5:15 PM, Jun 14

Salon B-D

Oral Abstract (O…

Chair: Ashley Hill & Danielle Crookes

Meredith Cahill - Impacts of Racism on Youth Behavioral Health

Hilary Colbeth - The impact of changing racial composition of the UAW-GM workforce on Black-White disparities in cardiovascular disease mortality

Joanna MN Guimarães - Residential segregation, breast cancer mortality and the effect of a conditional cash transfer (Bolsa Família) programme: results from the 100 million Brazilian Cohort

Maret M Maliniak - Census tracts aren't neighborhoods: Issues in examining the impact of historical redlining on present-day health outcomes

Shayla Nolen - Gentrification May Do More Than Displace Residents: An Ecological Analysis Examining Gentrification and HIV Diagnoses in Four US Cities

Tracy Lam-Hine - Using DAGs to imagine dismantling structural racism: turning our gaze upstream

To view individual abstracts, visit the Abstract Database.

Speakers

Ashley Hill
Assistant Professor
University of Pittsburgh

Danielle Crookes
Assistant Professor
Northeastern University

Meredith Cahill
Epidemiologist
REACH Evaluation

H

Hilary Colbeth
University of California, Berkeley

Joanna Guimaraes
Dr
Centre for Data and Knowledge Integration for Health (CIDACS), Fiocruz, Brazil

M

Maret Maliniak
Emory University

Shayla Nolen
Ph.D. Candidate
Brown University School of Public Health

Tracy Lam-Hine
Postdoctoral Scholar, Epidemiology & Population Health
Stanford University

Big Data/Machine Learning/AI

3:45 PM - 5:15 PM, Jun 14

Mt Hood

Oral Abstract (O…

Chair: Charles Hall

Kosuke Inoue - Machine-learning based high-benefit approach versus conventional high-risk approach in blood pressure management

Lauren Wilner - A shift in data sharing paradigms: a case study on the ways in which big data and complex algorithms allow for increased data sharing while preserving privacy

Yi Li - Standardization over disease risk score versus propensity score for confounding control when using random forests for model fitting

Stephanie Teeple - Missing data methods and their impact to predictive performance equity in clinical models

Lilian Maria - Natural Language Processing Algorithm for Identifying Fall-Related Injuries in the Emergency Department Notes

Mariane Furtado - Multicentric external validation of machine learning algorithms for neonatal mortality predication

To view individual abstracts, visit the Abstract Database.

Speakers

Charles Hall
Professor
Albert Einstein College of Medicine

Kosuke Inoue
Associate professor
Kyoto University

Lauren Wilner
University Of Washington

Yi Li
PhD Student
Department of Epidemiology, Biostatistics and Occupational Health, McGill University

Stephanie Teeple
University of Pennsylvania

Lilian Maria
Postdoctoral research fellow
Massachusetts General Hospital

Mariane Furtado
PhD
School of Public Health, University of Sao Paulo, Department of Epidemiology

Behavioral Risk Factors and Health Across the Life Course

3:45 PM - 5:15 PM, Jun 14

Salon G-H

Oral Abstract (O…

Chair: Tianyi Huang

Neil Perkins - The importance of modifiable female lifestyle characteristics to live birth: How much does lifestyle matter?

Cynthia Yoon - Associations of positive childhood experiences with adaptive and maladaptive eating among college students: Findings from Research, Eating, Activity, and Community Health (REACH) pilot study

Alexis Garduno - Accelerometry-Measured Sleep, Rest-Activity Rhythms, and the Charlson Comorbidity Index in the Hispanic Community Health Study/Study of Latinos and Sueño

Rachel D. McCarty - Associations between tattooing and health and risk-taking behaviors in Utah

Yoko Matsuoka - Does the smartphone-based shopping mall-walking program encourage people to walk more? A multilevel analysis of nationwide big data in Japan

Marie-Laure Charpignon - Massachusetts companion program bolsters COVID-19 vaccine rates among seniors

To view individual abstracts, visit the Abstract Database.

Speakers

Tianyi Huang
Harvard Medical School

N

Neil Perkins
NICHD, NIH

Alexis Garduno
Joint Doctoral Program at UCSD / SDSU

Cynthia Yoon
Assistant Professor
University of Houston

Rachel McCarty
PhD Candidate
University of Utah

Yoko Matsuoka
Junior Assistant Professor
Center for Preventive Medical Sciences, Chiba University

M

Marie-Laure Charpignon
Massachusetts Institute of Technology, Institute for Data, Systems, and Society; Boston Children's Hospital, Computational Health Informatics Program

Advances in Nutrition and Obesity: Epidemiology in the Modern Era

3:45 PM - 5:15 PM, Jun 14

Salon I

Oral Abstract (O…

Chair: Alexandra Purdue-Smithe & Anita Subramanian -

Natalia Ortega - Targeted estimands in nutritional epidemiology: a case study on the effect of dairy consumption and cognitive function

Sachelly Julian-Serrano - Assessing agreement between the National Cancer Institute's Diet History Questionnaire II and III in a preconception cohort

Samantha Smith - Is BMI really that bad? Quantifying measurement error due to self-report BMI in NHANES.

Lauren Hurwitz - Body mass index and prostate cancer screening, incidence, and mortality in the Prostate, Lung, Colorectal, and Ovarian (PLCO) Cancer Screening Trial

Jonathan Weber - Longitudinal association of thoracic fat with all-cause and cardiovascular death: a cohort study analysis of RCT data using marginal structural models

Xuehong Zhang - Associations between sugar-sweetened and artificially sweetened beverage intake, liver cancer and chronic liver disease mortality

To view individual abstracts, visit the Abstract Database.

Speakers

Alexandra Purdue-Smithe
Associate Epidemiologist/Instructor in Medicine
Brigham and Women's Hospital and Harvard Medical School

Anita Subramanian
NIH/NIEHS

Natalia Ortega
University of Bern

Sachelly Julian-Serrano
ScD Candidate
Department of Public Health, University of Massachusetts Lowell

Samantha Smith
PhD Student
University at Buffalo

Lauren Hurwitz
Postdoctoral Fellow
National Cancer Institute

Jonathan Weber
St. Francis Hospital & Heart Center; The Mount Sinai Hospital

Xuehong Zhang
Associate Professor, Harvard Medical School and Harvard T. H. Chan School of Public Health Epidemiologist (Lead Investigator), Brigham and Women's Hospital
Brigham and Women's Hospital and Harvard Medical School

Epidemiology of neurological impairment across the lifespan

3:45 PM - 5:15 PM, Jun 14

Columbia

Oral Abstract (O…

Chair: Joanna Diong & Alvin Thomas

Cesar Higgins Tejera - Persistent Systemic Inflammation Mediates the non-Hispanic Black vs non-Hispanic White Disparity in Cognitive Function: A Longitudinal Analysis

Natascha Merten - Midlife Hearing, Vision, Olfactory and Motor Function Improve the Long-Term Prediction of Neurodegeneration

Kara Christopher - Anxiety and the incidence of stroke during pregnancy in the United States

Ruijia Chen - Associations of Childhood Trauma with Dementia Risk and Neuroimaging Markers in the UK Biobank Study

Peter T. Buto - Heterogeneous associations of HbA1c with MRI measures of brain health among participants in UK Biobank

Kara Christopher - Malnutrition and Stroke in Women of Reproductive Age

To view individual abstracts, visit the Abstract Database.

Speakers

Joanna Diong
Senior Lecturer
The University of Sydney

Alvin Thomas
F99 Predoctoral Fellow
University of North Carolina at Chapel Hill

César Higgins Tejera
PhD Candidate
Department of Epidemiology, University of Michigan

Natascha Merten
Department of Population Health Sciences and Department of Medicine (Geriatrics & Gerontology), School of Medicine and Public Health, University of Wisconsin-Madison

Kara Christopher
Assistant Research Professor
Saint Louis University School of Medicine

Ruijia Chen
Department of Epidemiology and Biostatistics, University of California, San Francisco

Peter T. Buto
University of California, San Francisco

5:30 PM

The use of unique data sources for epidemiologic analysis during the COVID-19 pandemic

5:30 PM - 6:00 PM, Jun 14
Salon F
Oral Abstract Speed (O…

Chair Emily Ricotta

John Kubale - Assessing the harmonization potential of data sources on policy interventions to combat COVID-19

Taylor M. Lampe - Calculating and validating 118th Congress metrics for the Congressional District Health Dashboard using a geospatial aggregation method

Jaren R. Haber - Evaluating the use of online obituaries for public health surveillance

Anika Puri - State-level decoupling between COVID-19 morbidity-mortality and general public interest is associated with political leaning mcharpig@mit.edu

Marie-Laure Charpignon - Vaccine Distribution through Augmented Companion Programs May Improve Infectious Disease Outcomes

To view individual abstracts, visit the Abstract Database.

Speakers

Emily Ricotta
Epidemiologist
National Institute of Allergy and Infectious Diseases

John Kubale
Research Assistant Professor
University of Michigan Insitute for Social Research

Taylor Lampe
NYU Langone Health, City & Congressional District Health Dashboards

Jaren Haber
Postdoctoral Fellow, Dartmouth College

Anika Puri
Massachusetts Institute of Technology, Institute for Data, Systems, and Society; Boston Children's Hospital, Computational Health Informatics Program

Marie-Laure Charpignon
Massachusetts Institute of Technology, Institute for Data, Systems, and Society; Boston Children's Hospital, Computational Health Informatics Program

Oral Abstract Speed Session Mental Health

5:30 PM - 6:00 PM, Jun 14

Salon E

Oral Abstract Speed (O…

Chair Kathleen Dobson

Yamna Taouk - Persistent low job control and subsequent major depression over time: A prospective cohort study using the Australian Longitudinal Study on Male Health

Amanda Raffoul - Associations between pandemic-related policies and disordered eating risk across five countries

Christa Orchard - Can data-driven methods identify unique patterns of mental health service use using healthcare administrative data in Ontario, Canada?

Holly Crowe - A cross-sectional analysis of migraine and post-traumatic stress disorder in Nurses' Health Study II

Gisselle Soto Rivas - Factors Associated with Utilization of In-school and Outside Therapy Services

To view individual abstracts, visit the Abstract Database.

Speakers

Kathleen Dobson
Associate Scientist
Institute for Work & Health

Yamna Taouk
The University of Melbourne

Amanda Raffoul
Research Fellow
Boston Children's Hospital

Christa Orchard
University Of Toronto

Holly Crowe
Harvard T.H. Chan School of Public Health

Gisselle Soto Rivas
University of Southern California (USC)

Expanding upon the who, the what, and the how of health disparities research

5:30 PM - 6:00 PM, Jun 14

Salon B-D

Oral Abstract Speed (O..

Chair - Danielle Gartner

Adrian Foster - A mixed-methods study to define and measure community wellbeing: developing indicators for public policy and surveillance

Diana M. Tordoff - Comparing Two-Step Approaches to Measuring Gender Identity: Ascertaining Sex Assigned at Birth versus Transgender Self-Identification

Jessie Seiler - Radicalization and deradicalization into and out of white supremacy: a qualitative exploration of public health opportunities to address racism

Elizabeth S McClure - Redlining and Health Research: Pitfalls and Possibilities

Julianne Meisner - Political One Health: a framework for more-than-human health

To view individual abstracts, visit the Abstract Database.

Speakers

Danielle Gartner
Assistant Professor
Michigan State University

Adrian Foster
University of Toronto

Diana Tordoff
Stanford University

Jessie Seiler
Predoctoral instructor
University of Washington

Libby McClure
Health Data Analyst
DataWorks NC; University of North Carolina at Chapel Hill

Julianne Meisner
Assistant Professor
University of Washington

Perinatal and Pediatric Flash Talks: Delivering Pop Epi in 5 minutes or less

5:30 PM - 6:00 PM, Jun 14

Mt Hood

Oral Abstract Speed (O…

Chair - Elizabeth Jensen

Asma Ahmed - Long-term educational and economic outcomes after preterm birth: Evidence from a national population-based cohort

David Mallinson - Maternal opioid use disorder and infant mortality in Wisconsin, 2010-2018

Shalmali Bane - Can birth hospital explain racial/ethnic differences in cesarean birth among low-risk births? An analysis of California data, 2007-2018

Diane Putnick - Child Opportunity Index at birth and early development at age 4 years

Izzuddin M. Aris - Associations of Neighborhood Opportunity and Vulnerability with Incident Asthma Among U.S. Children in the ECHO cohorts

To view individual abstracts, visit the Abstract Database.

Speakers

Elizabeth Jensen
Associate Professor
Wake Forest University School of Medicine

Asma Ahmed
The Hospital for Sick Children

David Mallinson
University of Wisconsin-Madison

Shalmali Bane
PhD Candidate
Stanford University School of Medicine

Diane Putnick
Staff Scientist
NICHD

Izzuddin Aris
Assistant Professor
Harvard Medical School and Harvard Pilgrim Health Care Institute

Environment and Reproductive Health

5:30 PM - 6:00 PM, Jun 14

Salon G-H

Oral Abstract Speed (O…

Chair - Kristen Upson

Kemi Ogunsina - Chemical hair straightener use in adolescence and adulthood in relation to prevalent and incident fibroids among Black/African American women

Amber M Hall - Personal care product use and perfluoroalkyl substances in pregnant and postpartum women and adolescents: The MIREC and HOME studies

Samantha Schildroth - Preconception Serum Per- and Polyfluoroalkyl Substances (PFAS) and Risk of Spontaneous Abortion in a Prospective Cohort of North Americans: Preliminary Findings

Caroll Co - Exposure to chemicals in personal care products among women with high daily use

Joanna M. Marroquin - Menstrual cycle and menses length in relation to endometrium PFAS levels

To view individual abstracts, visit the Abstract Database.

Speakers

Kristen Upson
Assistant Professor
Michigan State University

Kemi Ogunsina
NIEHS

Amber Hall
Brown University

Samantha Schildroth
Boston University

Caroll Co
DLH Corporation

Joanna Marroquin
George Mason University

Latebreaker - Cancer

5:30 PM - 6:00 PM, Jun 14

Salon I

Oral Abstract Speed (O…

Chair Britton Trabert

Dornell Pete - Assessing Helicobacter pylori infections among adults from the Navajo Nation

Meng-Han Tsai - Presence of multi-morbidities and colorectal cancer screening utilization among breast cancer survivors

Maki Inoue-Choi - One-carbon metabolism biomarkers and upper gastrointestinal cancer in Golestan, Iran

Jun Tao - Kinetics of EBV Antibody-based NPC Risk Scores in Taiwan NPC Multiplex Families

Nadia Dogbe - Trends in Colorectal Cancer Screening over the past 30 years in the U.S.: An Analysis of Data from the Behavioral Risk Factor Surveillance System

To view individual abstracts, visit the Abstract Database.

Speakers

Britton Trabert
Huntsman Cancer Institute at6 the University of Utah

D

Dornell Pete
Fred Hutchinson Cancer Center

Meng-Han Tsai
Assistant Professor
Georgia Cancer Center, Augusta University

Maki Inoue-Choi
Staff Scientist
National Cancer Institute

Jun Tao
National Cancer Institute

N

Nadia Dogbe

Latebreaker - Substance Abuse

5:30 PM - 6:00 PM, Jun 14

Columbia

Oral Abstract Speed (O…

Chair - Bill Miller

Mohammad Ebrahimi Kalan - Spatial Analysis of Drug Use-related Mortality in Iran

Tim Slade - Family and Peer-Related Mediators of the Relationship Between Parental Supply of Alcohol and Subsequent Alcohol-Related Harms Among Australian Adolescents

Adrienne D Tanus - Alcohol Consumption and Flares of Low Back Pain: A Longitudinal Case-Crossover Study

Nicolas Rodrigue - Evolving rates of co-use of cannabis and tobacco among adolescents in the US, Chile, and Uruguay, from 2001-2021: a comparative approach of three national school-based surveys

To view individual abstracts, visit the Abstract Database.

Speakers

William Miller
Ohio State University

Mohammad Ebrahimi Kalan
School of Health Professions, Eastern Virginia Medical School, Norfolk, Virginia, USA

Tim Slade
Professor
University of Sydney

Adrienne Tanus
VA Puget Sound Health Care System

Nicolas Rodriguez
University of Michigan

Latebreaker - Social

5:30 PM - 6:00 PM, Jun 14

Meadowlark-Douglas

Oral Abstract Speed (O…

Chair - Lynne Messer

Anjali D. Kumar - Neighborhood Mortgage Lending Bias and Preterm Birth among NHB and NHW births in North Carolina

Leah Moubadder - Spatial Patterns of Mortgage Discrimination in Metropolitan Areas in the Southeastern United States

Sarpong Boateng - The Association Between Perceived Discrimination and Body Mass Index Among Asian Women

Caitlin Murphy - Associations of early menarche and adolescent overweight with neighborhood indices of social polarization: evidence from the Child Health and Development Studies

Lindsay Fernandez-Rhodes - The Health of Mexican Immigrant Families: Do Climates of Immigrant Inclusivity Shape Childhood Diet and Obesity?

To view individual abstracts, visit the Abstract Database.

Speakers

Lynne Messer

Anjali Kumar
Doctoral Student
University of North Carolina at Chapel Hill

Leah Moubadder
PhD Candidate
Emory University Department of Epidemiology

Sarpong Boateng
University of North Texas Health Science Center at Fort Worth

Caitlin Murphy
University of Texas Health Science Center at Houston

Lindsay Fernandez-Rhodes
Assistant Professor
Penn State University

6:30 PM

Poster Session 2 and Reception

6:30 PM - 7:30 PM, Jun 14
Exhibit Hall

Poster | Reception

To view individual abstracts, visit the Abstract Database.

7:30 PM

President's Reception

7:30 PM - 9:30 PM, Jun 14
Exhibit Hall

Reception

Thu, Jun 15, 2023

7:00 AM

Speed Networking

7:00 AM - 7:45 AM, Jun 15

Breakfast | Student and Postdoc

Students and post-docs have the opportunity to meet and network with epidemiologists (mentors) in small groups, following a “speed dating” format. Each mentor will be paired with 2-3 trainee attendees at a time, and trainees will rotate around the room during the session. This fast and fun event is a great way to practice introductions and have brief discussions around career and professional development. We hope to see you there.

Pre-Registration Required.
Click here to register

Organizer

Joelle Atere-Roberts
SER Student and PostDoc Committee

R

Rachael Ross
University of North Carolina at Chapel Hill

Mentor

Nadia Abuelezam
Boston College

F

Fausto Andres Bustos Carrillo
National Institute of Allergy and Infectious Diseases

Helen Chin
George Mason University

Dustin T. Duncan
Professor
Department of Epidemiology, Columbia University Mailman School of Public Health

J

John Jackson

Ruvani Jayaweera
Research Scientist
Ibis Reproductive Health

Elizabeth Rose Mayeda
UCLA

C

Craig Meyer
Janssen Pharmaceuticals

Steve Mooney
Assistant Professor
University of Washington

Deirdre Tobias
Brigham and Women's Hospital; Harvard

Marcia Pescador Jimenez
Boston University School of Public Health

Maeve Wallace
Assistant Professor
Tulane University School of Public Health and Tropical Medicine

Diversity and Inclusion Committee

7:00 AM - 7:45 AM, Jun 15
Sunstone
Committee Mee…

Education Committee
7:00 AM - 7:45 AM, Jun 15
Pearl
Committee Mee…

Scientific Dissemination Committee
7:00 AM - 7:45 AM, Jun 15
Laurlhurst
Committee Mee…

8:00 AM

Plenary Session 2
8:00 AM - 9:45 AM, Jun 15
Salon A-F
Plenary

Session Chair: Onyebuchi Arah

Lilienfeld Postdoctoral Prize Paper Award
Sponsor: TBD, Johns Hopkins University
Award Winner: Giehae Choi

Tyroler Student Prize Paper Award
Sponsor: Andrew Olshan, University of North Carolina, Chapel Hill
Award Winner: Emma Herbach

Marshall Joffe Epidemiologic Methods Research Award
Sponsor: Enrique Schisterman, University of Pennsylvania
Award Winner: George Davey Smith

Kirsten Bibbins-Domingo, Cassel Lecturer
"TBD"

Speakers

Onyebuchi Arah
UCLA

Giehae Choi
Postdoctoral Fellow
Department of Environmental Health and Engineering, Johns Hopkins Bloomberg School of Public Health

Andrew Olshan
Univ. Of North Carolina

Emma Herbach
Sylvester Comprehensive Cancer Center, University of Miami Miller School of Medicine

Enrique Schisterman
University of Pennsylvania

George Davey Smith
Professor of Clinical Epidemiology
MRC Integrative Epidemiology Unit, University of Bristol

Kirsten Bibbins-Domingo
American Medical Association/JAMA

9:45 AM

Break

9:45 AM - 10:15 AM, Jun 15
Exhibit Hall

Break

10:15 AM

Pregnancy outcomes and long-term health in birthing people

10:15 AM - 11:45 AM, Jun 15
Salon F

Oral Abstract (O…

Chair: Quaker Harmon

Nicole Cohen - Trajectories of lifetime cardiovascular risk predict pregnancy outcomes: The Bogalusa Heart Study and the Cardiovascular Risk in Young Finns Study

Holly Elser - Postpartum hemorrhage and long-term maternal mortality

Sage Wyatt - No increased risk of cardiovascular death after preeclampsia in over 40% of women: a population based cohort study

Holly Harris - History of Infertility and Risk of Endometrial Cancer in the Women's Health Initiative

Tahmineh Romero - Longitudinal metabolomic changes during pregnancy and ischemic placental diseases (IPD)

Sandra India Aldana - Exposure to PM2.5 during pre-conception, pregnancy, and 1-year after parturition in relation to later cardiometabolic alterations in Mexican women

To view individual abstracts, visit the Abstract Database.

Speakers

Quaker Harmon
NIEHS

Nicole Cohen
Tulane

Holly Elser
Hospital of the University of Pennsylvania

Sage Wyatt
PhD Candidate
University of Bergen

Holly Harris
Associate Professor
Fred Hutch Cancer Center

Tahmineh Romero
University of California, Los Angeles

Sandra India Aldana
Icahn School of Medicine at Mount Sinai

Epidemiological Studies of The Environment and Climate Change

10:15 AM - 11:45 AM, Jun 15

Salon E

Oral Abstract (O…

Chair: Zeyan Liew & Olivia Halabick

Kristina Dang - Does type and timing of ambient air pollutant (PM2.5, NO2) exposure influence cognitive function and decline? A novel co-pollutant examination using sequence analysis

Sarah H. Koenigsberg - Outdoor residential air pollution and DNA methylation-based metrics of biological age among Black and White women in the US

Vishal Midya - Machine learning assisted discovery of synergistic interactions between environmental pesticides, phthalates, phenols, and trace elements in child neurodevelopmental outcome

Juwel Rana - The Effects of Metal Mixture in the Associations Between Socioeconomic Status and Blood Pressure among Rural Bangladeshi Adults: A Four-way Decomposition Approach

Lingzhi Chu - A unified framework for assessing interaction effects among environmental exposures in epidemiologic studies: a case study on temperature, air pollution, and kidney-related conditions in New York State

Haoran, Zhuo - Prenatal exposure to toxic air contaminants and risk of cerebral palsy

To view individual abstracts, visit the Abstract Database.

Speakers

Zeyan Liew
Assistant Professor
Yale School of Public Health

Olivia Halabicky
Postdoctoral Fellow
University of Michigan

Kristina Dang
UCSF

Sarah Koenigsberg
Doctoral Student
Gillings School of Global Public Health at UNC Chapel Hill

Vishal Midya
Icahn School of Medicine at Mount Sinai

Juwel Rana, MPH (Dual)
Doctoral Researcher
Department of Epidemiology, Biostatistics and Occupational Health, McGill University

Lingzhi Chu
Postdoc associate
Yale School of Public Health

Haoran, Zhuo
PhD Student
Yale School of Public Health

Screening for breast, cervical, and colorectal cancer among marginalized and underserved adults in the U.S. and Canada

10:15 AM - 11:45 AM, Jun 15

Salon B-D

Oral Abstract (O…

Chair: Traci Bethea & Breanna Greteman

Mimi Ton - The impacts of the census tract socioeconomic status on colorectal and cervical cancer screening

Jordan Baeker Bispo - Government housing assistance and cancer screening participation among adults with low-income

Franz Castro - Disparities in timely cervical cancer screening in women with disabilities, Behavioral Risk Factor Surveillance System 2021

Jacqueline Rudolph - Adherence to colorectal cancer screening protocols and incidence of colon cancer among Medicaid beneficiaries with and without HIV, 2001-2015

Geetanjali D Datta - Survival after cervical cancer diagnosis by immigrant and screening status: a population-based retrospective cohort study in Ontario, Canada

Shenghui Wu - Changes in Knowledge and Awareness for a Community-based Cancer Screening Educational Program

To view individual abstracts, visit the Abstract Database.

Speakers

Traci Bethea
Assistant Professor (Oncology, Cancer Prevention and Control)
Georgetown Lombardi Comprehensive Cancer Center

Breanna Greteman
University of Iowa

Mimi Ton
University of Washington

Franz Castro
Postdoctoral Research Fellow

Jacqueline Rudolph
Assistant Scientist
Johns Hopkins Bloomberg School of Public Health

Geetanjali Datta
Cancer Research Center for Health Equity, Cedars-Sinai Medical Center

Shenghui Wu
Appalachian State University

Novel methods to measure multilevel social factors across the lifecourse

10:15 AM - 11:45 AM, Jun 15

Mt Hood

Oral Abstract (O…

Chair: Justin Lessler - COVID-19 Pandemic Session (A)

Travis Salway - Causal diagrams for sexual and gender minority health disparities

Amanda Irish - Impact of availability of college education on later-life blood pressure distribution: An instrumental variable analysis of a natural experiment

Jonathan Jay - Measuring long-term disinvestment to understand firearm violence in Philadelphia, PA

Joëlle Atere-Roberts - Confirmatory factor analysis to operationalize county-level structural racism exposure over the lifecourse

Katherine LeMasters - Mass Probation: Effects of sentencing severity on mental health for Black and White individuals

Pasangi S. Perera - Impact of Medicaid Expansion on Homicide, Opioid Overdose, and Suicide Death Rates among Formerly Incarcerated Persons in Rhode Island from 2009-2018

To view individual abstracts, visit the Abstract Database.

Speakers

Dayna Johnson
Assistant Professor
Emory University

Lauren Zalla
Postdoctoral Fellow
Johns Hopkins University

Travis Salway
Assistant Professor
Simon Fraser University

Amanda Irish
UC San Francisco

Jonathan Jay
Boston University School of Public Health

Joelle Atere-Roberts
SER Student and PostDoc Committee

Katherine LeMasters
UNC Chapel Hill

Pasangi Perera
PhD student
University of North Carolina at Chapel Hill

Infectious Disease

10:15 AM - 11:45 AM, Jun 15

Salon G-H

Oral Abstract (O…

Chair: Christina Ludema

Emma Kileel - A quantitative bias analysis of tuberculosis diagnostic tests among a national sample of people living with and without HIV in South Africa

Zoë Greenwald - Measuring disparities in the Hepatitis C care cascade among people who inject drugs in Ontario: a population-based retrospective cohort study

Carlos Culquichicon - Removal of a subsidy for HIV self-testing kits reduces online kit sales in Kenya

Amy Zheng - Initiation of dolutegravir versus efavirenz for first-line art on viral suppression and retention: a regression discontinuity design

Jonathan P. Smith - Characterizing and comparing individual-level heterogeneity in transmission of infectious disease outbreaks

To view individual abstracts, visit the Abstract Database.

Speakers

Christina Ludema
SER Diversity and Inclusion Committee

Emma Kileel
PhD Student / Graduate Student Researcher
Boston University School of Public Health

Zoë Greenwald
University of Toronto

Carlos Culquichicon
Graduate research assistant
Department of Epidemiology, University of Washington

Amy Zheng
PhD Student
Department of Epidemiology, Boston University School of Public Health

Jonathan P. Smith
Epidemiologist
Yale University, CDC

Injury/Violence: Hot Topics, Novel Methods, and Policy Impact

10:15 AM - 11:45 AM, Jun 15

Salon I

Oral Abstract (O…

Chair: Elizabeth Yanik & Brice Kumi

Ben Spoer - State-Level Firearm Laws and Firearm Homicide in United States Cities: Heterogenous Associations by City-Level Characteristics

Veronica Pear - Short- and Long-Term Associations Between City-Level Government Spending and Youth Violence Perpetration

Guohua Li - Cannabis Use and Homicide Victimization: Case-Control Analysis Using Data Fusion and Machine Learning Techniques and Multiple National Data Systems

Victoria Joseph - Epidemiology of suicide among Black women 15-84 in the U.S., 1999-2020

Adam Palayew - Look both ways before you case-crossover: examining the impact of control selection in car crash epidemiology

Chinchin Wang - Accounting for recent injuries in the relationship between physical activity and injury risk: checking for time-dependent confounding using the parametric g-formula

To view individual abstracts, visit the Abstract Database.

Speakers

Elizabeth Yanik
Assistant Professor
Washington University in St. Louis

Brice Lionel Batomen Kumi
Assistant professor
Dalla Lana School of Public Health, University of Toronto

Ben Spoer
NYU Grossman School of Medicine

Veronica Pear
Assistant Professor
University of California, Davis

Guohua Li
Professor
Columbia University

Victoria Joseph
Data Analyst
Columbia University Mailman School of Public Health

Adam Palayew
PhD Candidate
University of Washington

Chinchin Wang
PhD Candidate
McGill University

Occupational cohorts, COVID-19, and methods for classifying work

10:15 AM - 11:45 AM, Jun 15

Columbia

Oral Abstract (O…

Chair: Grace Sembajwe

Alexander Keil - A novel weighting approach to addressing healthy worker survivor bias

Jin-Ha Yoon - Machine learning and natural language processing in occupational classification using Korea Working Condition Survey

Michael Cziner - Comparison of work-related injuries and illnesses in New York City transit workers from before and during the COVID-19 pandemic: preliminary findings

Yetunde Olubusayo Tagurum - Tobacco use patterns and mental health of construction workers during the COVID-19 pandemic

Katelynn E. Dodd - COVID-19 vaccination uptake among adults with asthma, by occupation

Matthew J. Myers - Differences in Vaccination Percentage by Occupation among West Virginia Workers: Findings from the Facebook/Delphi Group COVID-19 Trends and Impacts Survey

To view individual abstracts, visit the Abstract Database.

Speakers

Grace Sembajwe
Northwell Health/Feinstein Institutes/Hofstra School of Medicine

Alexander Keil
National Cancer Institute

Jin-Ha Yoon
Research Professor
Yonsei University

Michael Cziner
PhD Student and Grant Coordinator - NYC Transit Workers COVID-19 Study
New York University

Yetunde Tagurum
Department of Public Health Sciences, University of Miami

Katelynn Dodd
Graduate Student Researcher
West Virginia University

Matthew Myers
West Virginia University

12:15 PM

Networking for LGBTQ Epidemiologists

12:15 PM - 1:15 PM, Jun 15

Meadowlark-Douglas

Lunchtime

Building off of the unofficial meeting among LGBTQ attendees at the 2022 Annual Meeting as well as the SER Mentoring Group for LGBTQ-identified members, we would now like to gather in a more official capacity at the annual meeting.

• Brittany Charlton - Discussant

Speaker

Brittany Charlton
Associate Professor
Harvard Medical School/Harvard T.H. Chan School of Public Health

Se habla Español- e falamos Português!

12:15 PM - 1:15 PM, Jun 15

Salon I

Lunchtime

The Society for Epidemiologic Research (SER) has increased largely their outreach to Latin America, including Brazil, the non-English-Speaking Caribbean. Increasing the diversity engagement of researchers who Spanish and Portuguese at SER will positively impact the field of epidemiology. Although researchers attending SER from Latin America are still small

numbers, the impact and the quality of research broadcasted at SER makes it an interesting venue for stablished and emerging scholars. Some of the challenges, and in some cases the reluctance for the attendance is the language barrier. We believe that given the commitment that SER has on diversity, additional engagement of already SER members could translate in stronger international networks and development of novel research in Latin America, which could help improve the health of populations throughout the continent. This symposium will bring together five researchers (in different stage careers, diverse gender, and ethnicity backgrounds) conducting epidemiologic research in the region. We will share current challenges (e.g., accessing and securing funding, knowledge translation and uptake of new methodological approaches), opportunities (e.g., collaborations North-South and South-South), and future goals to improve research in the region (e.g., academic training and ideas to prevent using the region as a "data provider lab only").

• Ana Diez Roux– Funding your research: strategies to conduct research in Latin America

• Magdalena Cerda– Challenges and opportunities to conduct research in Latin America: developing programs with strong South-North networks

• Alvaro Castillo Carniglia– Research to improve public health in Latin America: Moving beyond descriptive analyses

• Mabel Carabali, Discussant

Speakers

Julian Santaella-Tenorio
Postdoctoral fellow
New York University

Ana Diez Roux
Drexel University

Magdalena Cerda
Professor
NYU Grossman School of Medicine

Alvaro Castillo Carniglia
Associate Professor
Universidad Mayor, Chile

Mabel Carabali
Assistant Professor
McGill University

It's personal: navigating research questions that stem from our lived experiences

12:15 PM - 1:15 PM, Jun 15

Salon G-H

Lunchtime

The purpose of this symposium is to learn from epidemiologists or other health professionals who have investigated research questions that affect them personally or stem from lived experiences. How do we navigate professionally investigating a problem that has affected our own health or the health of a loved one? What compels us and what obstacles do we face when conducting such work? The purpose of this symposium is to bring together researchers who have experienced or are planning to study very personal research questions. All population-based research is personal to some extent as it may affect the people in our community. This is particularly evident in the COVID-19 pandemic. Yet what distinguishes this panel is that the health problems we encounter are less common, understudied, and have left us feeling compelled to seek answers. In this symposium we will share our stories and create a forum where we can learn from one another on how to navigate the realities of conducting personal research, including hardships and negative emotions such as isolation and self-doubt, but also the many positive aspects of intimate research, such as our study findings being directly relevant to our own lives or that of loved ones.

• Nichole Austin- Discussant

• Katherine Keyes- Discussant

• Mary De Vera- Discussant

Speakers

Azar Mehrabadi
Assistant Professor
Dalhousie University

Nichole Austin
Assistant Professor
Dalhousie University

Katherine Keyes
Columbia University

Mary De Vera
Associate Professor
University of British Columbia

Words have meaning

12:15 PM - 1:15 PM, Jun 15

Mt Hood

Lunchtime

This 2nd version of Words have Meaning is an edutainment lunchtime session with two skits that highlight difficulties when epidemiologists or biostatisticians collaborate with clinicians. The focus of the skits is to highlight common communication challenges between clinicians and methodologists when discussing research questions and analytical strategies. An emcee will briefly introduce each skit. The actors then play out the skit, with PowerPoint “thought bubbles” displaying the actors (in)congruent thoughts with their words spoken on a screen. From the clinician perspective, the two topics are: “How can I intervene to improve adherence to my treatment program and then study how this intervention affects important outcomes?” This skit addresses how methodologists communicate advantages and disadvantages of particular analytical strategies. The topic of the second skit is “How can use the results of a study to change the intervention so it requires less resources without jeopardizing effectiveness?” This skit addresses related to mediation such as controlled effects, natural/pure effects and separable effects. Although we focus on how to better communicate, we will be explaining the methodological issues (e.g. complier average causal effect versus population average causal effect, controlled effects versus separable effects) because they are fundamental to understanding how to communicate the relevant information.

• Ian Shrier - Panelist

• Mats Stensrud – Panelist

• Steven D. Stovitz - Panelist

Speakers

Ian Shrier
Associate Professor
Centre for Clinical Epidemiology, Lady Davis Institute, McGill University

Mats Stensrud
EPFL

S

Steven Stovitz
University of Minnesota, Department of Family Medicine and Community Health

SPC Career Panel

12:15 PM - 1:15 PM, Jun 15

Salon F

Lunchtime Student and Postdoc

The field of epidemiology is broad and full of various career paths that have led professionals to their current positions. This session provides students and post-docs an opportunity to hear about the careers of a few epidemiologists working in a variety of sectors/settings and to ask questions. Panelists will briefly introduce themselves and then we will take questions from the audience. Please join our lunchtime session and the conversation with this excellent panel.

Organizer

Joelle Atere-Roberts
SER Student and PostDoc Committee

R

Rachael Ross
University of North Carolina at Chapel Hill

Panelist

A

Allison Brenner
Senior Director of Quality and Population Health
Cascadia Health

Caitlin Gerdts
Vice President for Research
Ibis Reproductive Health

Milena Gianfrancesco
Pfizer, Inc.; UCSF

C

Chandra Jackson
NIEHS/NIH

Candice Johnson
Assistant Professor
Duke University

Epidemiology in Japan: Lessons from Super-Aging Society Preparing for the Future

12:15 PM - 1:15 PM, Jun 15

Salon E

Lunchtime

Japan is a super-aging society with the highest life expectancy in the world, where nearly 30% of the population is 65 or older. Aging is an inevitable facet of life, increasing the risk of several diseases including metabolic disorders, cardiovascular diseases, dementia, and cancer. In addition to aging, the Japanese population has experienced substantial health damage from a multitude of natural disasters, including the 2011 Great East Japan Earthquake and tsunami.

In this session, Japanese speakers with professional backgrounds from several institutions will present major public health challenges stemming from population aging and large-scale disasters and share the current state of knowledge on these topics. Through the discussion about how to cope with those challenges, we will provide the clue for future epidemiological research in Japan and other countries facing similar problems. During the session, we will also cover the perspective of life-course epidemiology, database management, and the application of cutting-edge causal inference methods, along with machine learning, to answer the socially and/or clinically important research questions. We hope this session will help SER participants to better understand the epidemiological studies for age-related diseases and natural disasters in Japan from clinical and social perspectives and will boost future opportunities for international collaborative work.

• Hiraku Kumamaru- Patient registries for Cancer Research in Japan: Examples from National Clinical Database

• Norie Sawada- Cancer Epidemiology in Japan: Japan Public Health Center-based Prospective Study

• Koichiro Shiba- Lessons from the 2011 Great East Japan Earthquake and Tsunami: Japan Gerontological Evaluation Study

• Shinichi Kuriyama- Impact of Natural disaster on Child and Maternal Health: Insight from The Tohoku Medical Megabank Project.

• Ichiro Kawachi- Health in Japan Through the Lens of Social Epidemiology

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Speakers

Kosuke Inoue
Associate professor
Kyoto University

H

Hiraku Kumamaru
Associate Professor
The University of Tokyo

Koichiro Shiba
Assistant Professor
Boston University

Ichiro Kawachi
John L Loeb & Frances Lehman Loeb Professor of Social Epidemiology
Harvard University

N

Norie Sawada
National Cancer Center

Shinichi Kuriyama
Tohoku University

Guidance for Master's-Level Epidemiologists Considering Returning to School to Pursue Doctoral Studies

12:15 PM - 1:15 PM, Jun 15

Salon B-D

Lunchtime

SER has a genuine commitment towards supporting and promoting their master's-level professional membership. Sponsored by the SER Membership & Nominations Committee, 2023 will be the fifth year we offer the Master's-Level Symposia as we continue to promote and expand membership of this growing group of scientists.

This session is dedicated to supporting SER master's-level students and professionals contemplating returning to school to pursue doctoral studies. In the SER Master's-Level Survey of 2017, 24.4% planned to return to school to pursue doctoral studies (DrPH/PhD/ScD). In a traditional panel format, master's-level and doctoral-level epidemiologists working in a variety of settings will answer questions from master's-level attendees considering returning to school to pursue doctoral degrees (DrPH/PhD/ScD). For this panel, we have recruited seven individuals to serve as panelists. We have recruited panelists that are currently enrolled in doctoral programs (Patrick Arena, Sarah Cox, Hilary Colbeth, Sachelly Julián-Serrano, and Bianca Rivera) and have completed their doctoral studies (Dr. Talha Ali, PhD, and Dr. Ashley Buchanan, DrPH).

The overall objective of these two sessions is to highlight the valuable contribution of master's-level students and professionals in epidemiologic research, foster their professional growth inside and outside of SER, and demonstrate SER's devotion to this esteemed portion of the membership.Diversity Statement: The proposed panelists have been selected from SER Member Master List, with considerations for self-reported gender and race/ethnicity. Thoughtful considerations were made to select individuals that were at varying career levels (currently enrolled in full-time doctoral programs (PhD/ScD, n=4) or part-time doctoral program (DrPH, n=1) and individuals with doctoral degrees (PhD/DrPH, n=2).

• Patrick Arena – Panelist

• Hilary Colbeth – Panelist

• Sarah Cox – Panelist

• Emily Goldmann – Panelist

• Sachelly Julián-Serrano -Panelist

• Bianca Rivera – Panelist

Speakers

Megan Kemp
Project Manager/Epidemiologist
GZA GeoEnvironmental, Inc.

Ashley M. Geczik
PhD Candidate
Drexel University

Hilary Colbeth
University of California, Berkeley

Sarah Cox
PhD Candidate
University of Washington

Sachelly Julian-Serrano
ScD Candidate
Department of Public Health, University of Massachusetts Lowell

Bianca Rivera
NYU School of Medicine, Department of Population Health, Center for Opioid Epidemiology and Policy

Pat Arena
Consultant
Aetion

Emily Goldmann
New York University School of Global Public Health

The Role of SER in Furthering versus Addressing Epistemicide of Global South Epidemiologists

12:15 PM - 1:15 PM, Jun 15

Columbia

Lunchtime

SER is currently implementing many actions through its executive and D&I committees to maintain its commitment to engaging scientists from historically underrepresented backgrounds and origins. These efforts have expanded from administering D&I surveys to choosing cities closer to the United States southern border to encourage the participation of Latin-American scientists in annual meetings, offering professional development series, mentoring graduate students from underrepresented groups, and reaching out to new institutions with the SER-Visits program. As these efforts ramp up, it is the perfect time to examine how SER promotes equity, diversity, and inclusion. In providing spaces for everyone to have a voice, global northern scientists need to foster cognitive and social justice and avoid falling into epistemicide (i.e., actions that silence, annihilate, or devaluate knowledge systems) of global south researchers. Knowledge production cannot be called truly global until ideas and methods developed outside higher-income countries are universally accepted. Debates and disagreements will arise with this perspective, but these debates will ultimately broaden and enrich academic discussions addressing the pressing needs of the global south. The overall objective of this symposium is to bring experts from other disciplines who have denounced epistemicide of the global south epidemiologists' ideologies and advocate for equitable acceptance of methods and theories.

• Thirusha Naidu- Northern ventriloquism and epistemic disobedience as it applies to epidemiology and other fields

• Alejandro Ceron- Neocolonial Epidemiology: the CDC's legacy in Guatemala?

• Alfredo Morabia- Publication opportunities for global south epidemiologists in northern scientific journals

• Marc Emerson- Discussant

Speakers

Victor Puac-Polanco
Assistant Professor
SUNY Downstate

Thirusha Naidu
University of KwaZulu-Nata;

Alejandro Cerón
Associate Professor of Anthropology
University of Denver

Alfredo Morabia
Editor in Chief
American Journal of Public Health

Marc Emerson
Assistant Professor, Department of Epidemiology
University of North Carolina, Chapel Hill

1:45 PM

Back to the future: "I guess you guys aren't ready for that yet. But your kids are gonna love it."

1:45 PM - 3:15 PM, Jun 15

Salon F

Symposia

As the pace of epidemiologic research seems to be accelerating and new analytic techniques become available and accessible rapidly, we propose pausing to read and reread some “classic” epi papers to ground ongoing developments in epidemiologic theory and methods. In this symposium, we pair junior and senior epidemiologists to discuss their reflections on four (4) papers from the epidemiologic literature, specifically, how each paper has influence the field since its publication and what lessons it might contain for us for the future. The papers are:

1) Hill AB. Environment and disease: association or causation? Proc R Soc Med, 1965; 58: 295–300.

2) Rose G. Sick individuals and sick populations. Int J Epidemiol, 1985; 14:32–38.

3) Hernán MA, Hernández-Díaz S, Robins JM. A structural approach to selection bias. Epidemiology, 2004; 15: 615–625.

4) Greenland S. Randomization, statistics, and causal inference. Epidemiology, 1990; 1: 421-9.

Chair(s): Matthew Fox

Catherine Lesko

Presenters:

• Matthew Fox- Introduction

• Catherine Lesko- Hill’s “Criteria”: a leaky foundation

• Justin Lessler- A Wholistic Approach to Causation: The Continued Relevance of Hill's Casual Criteria

• Whitney Robinson- Sick individuals and sick populations: The paper that keeps giving and giving

• Zinzi Bailey- Revisiting “Sick Individuals and Sick Populations”: Dismantling Sick Systems?'

• Chanelle Howe- Revisiting the Classics: Hernán and Colleagues' A Structural Approach to Selection Bias

• Maya Mathur- Causal graphs clarify deep connections between selection bias and confounding

• Tyler VanderWeele- Inference and interpretation

• Laura Balzer- Rhyme or reason to randomness?

Speakers

Matthew Fox

Catherine Lesko
Johns Hopkins Bloomberg School of Public Health

Justin Lessler
UNC Gillings School of Global Public Health

Whitney Robinson
Duke

Zinzi Bailey
University of Miami Miller School of Medicine

Chanelle Howe
Associate Professor of Epidemiology
Brown University School of Public Health

Maya Mathur
Assistant Professor
Stanford University

Tyler VanderWeele
John L. Loeb and Francis Lehman Loeb Professor of Epidemiology
Harvard University

Laura B. Balzer
Associate Professor
University of California, Berkeley

Epidemiology at the south of the border: a Latin American perspective of disparities and equity

1:45 PM - 3:15 PM, Jun 15

Columbia

Symposia

Latin America is a region characterized by a diverse population and deep levels of inequality that extend to all aspects of daily life including health. Political, social, and historical forces have fragmented the health systems resulting in inequities that impact indigenous, black, poor and other marginalized populations. While the upper socioeconomic classes, often those of lighter skin and European ancestry, can access high quality health services, people in lower socioeconomic strata are often left without basic care.

This symposium will cover research projects from Mexico to Chile that highlight health disparities in the region. Panelists will present examples of research that utilizes different methodological approaches to examine disparities impacting different populations. Topics will include an intersectional analysis of disparities in cervical cancer screening in Ecuador, an examination of spatial pattern of excess mortality during the COVID-19 pandemic in Guatemalan cities, complementary feeding practices among Mexican children, sociodemographic disparities in social and health trajectories of Chilean patients in substance use treatments, and psychosocial factors influencing the mental health status of Guatemalan healthcare workers during the COVID-19 pandemic. Following presentations, there will be time for broader questions and discussion.

Chair(s): Gabriela Bustamante

David Lopez

Presenters:

• Kevin Martinez Folgar- Discussant - spatial pattern of excess mortality during the COVID-19 pandemic in Guatemalan cities

• Alejandra Paniagua-Avila- Discussant - psychosocial factors influencing the mental health status of Guatemalan healthcare workers during the COVID-19 pandemic

• David Lopez- Discussant - The role of testosterone replacement therapy in cardiovascular disease and prostate cancer in Hispanic individuals

• Alvaro Castillo Carniglia- Discussant - sociodemographic disparities in social and health trajectories of Chilean patients in substance use treatments

• Gabriela Bustamante- Discussant -an intersectional analysis of disparities in cervical cancer screening in Ecuador

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Speakers

Gabriela Bustamante
Faculty
Universidad San Francisco de Quito

David Lopez
Associate Professor
The University of Texas Medical Branch

Kevin Martinez-Folgar
Drexel University

Alvaro Castillo Carniglia
Associate Professor
Universidad Mayor, Chile

Alejandra Paniagua-Avila
Columbia University

Seeing the world through COVID-colored glasses: Epidemiology lessons learned during the COVID-19 pandemic

1:45 PM - 3:15 PM, Jun 15

Salon I

Symposia

Throughout the COVID-19 pandemic we have seen core concepts of epidemiology play out in real-time; these concepts were no longer just lessons from epidemiology textbooks, but issues that impacted our daily lives. Epidemiologists were suddenly called up to the front lines to explain these concepts to the lay public. The simultaneous timing of the pandemic and tragic events in the United States also brought discussions of social epidemiology, health disparities, and racism to the forefront. This symposium will begin with a brief presentation giving an overview of the many concepts of epidemiology that have been demonstrated in real life during the pandemic. We will then feature presentations from a diverse group of researchers with expertise on four topics that were particularly important during the pandemic: 1) predictive modeling, 2) disease surveillance, 3) health disparities and spatial inequities, and 4) public health policymaking. In addition to the well-known epidemiologists that made tremendous contributions during the pandemic, many trainees did terrific work focused on COVID-19. In this symposium we will feature the work of several graduate students on COVID-19 using a “three minute thesis” format to describe and communicate the significance of their work in a 3-minute presentation. Finally, we will end featuring a panel discussion on the concept of the COVID “infodemic” and how misinformation complicated the public health response to the pandemic.

Chair(s): Hailey Banack

Laura Rosella

Presenters:

- Hailey Banack & Laura Rosella- Epidemiology 'lessons learned' during the COVID-19 pandemic
- Eric Lofgren- Predictive modeling and infectious disease epidemiology
- Jean-Paul Soucy- Population-level surveillance of COVID-19
- Usama Bilal- Social and spatial inequities during the COVID-19 pandemic
- Daniel Harris - Is 3 Feet of Physical Distancing Enough?
- Mercedes Sobers - Is 3 Feet of Physical Distancing Enough?
- Joanna Merckx- Identifiability and Estimation Under the Test-negative Design With Population Controls With the Goal of Identifying Risk and Preventive Factors for SARS-CoV-2 Infection.
- Ellie Murray- Discussant: The COVID-19 "infodemic"

Speakers

Hailey Banack
University of Toronto

Laura Rosella
Associate Professor
University of Toronto

Eric Lofgren
Associate Professor
Washington State University

Jean-Paul Soucy
Doctoral Candidate
University of Toronto

Usama Bilal
Assistant Professor
Drexel University

Dan Harris
Research Scientist
University of Toronto

Joanna Merckx
McGill

Ellie Murray
Assistant Professor
BUSPH

Mercedes Sobers
University of Toronto

Integrating Social Needs into Healthcare Systems: Oregon's Experience

1:45 PM - 3:15 PM, Jun 15

Meadowlark-Douglas

Symposia

Ten years ago, Sandro Galea wrote ‘An Argument for a Consequentialist Epidemiology,’ calling for epidemiology to shift its focus from etiology towards solving the problems that limit population health. One opportunity to engage in consequentialist epidemiology is through partnership with the healthcare system. In 2012, Oregon established a network of coordinated care organizations (CCOs) to administer the state’s Medicaid program with the overarching goals of improving population health and quality of care while containing costs. Over time, the Oregon Health Authority has increasingly pushed the CCOs to address social determinants of health and health equity, which has prompted health systems to grapple with the challenges of integrating social and medical care. This symposium will share perspectives from five panelists on the front lines of the struggle to embrace population health science in primary care, behavioral health, and at the health systems level in order to go beyond documentation of health disparities and drive the structural changes necessary to reduce health inequities. We will contextualize Oregon’s experience in the broader movement towards integrating social care in healthcare and offer suggestions for how the epi research community can engage with health systems to embrace an epidemiology of consequence.

Chair(s): Paulina Kaiser

Allison Brenner

Presenters:

• Paulina Kaiser- Orientation to social needs, healthcare systems, and Oregon

• Carly Hood-Ronick- Administering health system funding to support social health: A community-based approach

• Allison Brenner- Social needs in community healthcare: Experience from the field

• Hannah Cohen-Cline- The promises and challenges of incorporating social determinants of health into health care metrics and value-based care models

• Erika Cottrell- Integrating EHR-based social risk screening tools into a network of community health centers: Lessons learned and future directions

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Speakers

Paulina Kaiser
Director, research & evaluation
Samaritan Health Services

Allison Brenner
Senior Director of Quality and Population Health
Cascadia Health

Carly Hood-Ronick
CEO - Project Access NOW

Hannah Cohen-Cline
Center for Outcomes Research & Education, Providence Portland Medical Center

Erika Cottrell
OCHIN and Oregon Health & Science University

Statistics in Epidemiology

1:45 PM - 3:15 PM, Jun 15

Mt Hood

Symposia

Statisticians have had an outsized effect on the field of epidemiology. This is so, in large part, because the study of health and disease involves sampling populations, or assigning treatments, and is therefore inherently subject to chance. Statisticians like Greenberg, Breslow, Cox, Rosner, Zeger, and their work are part of a lingua franca of the diverse subfields that comprise epidemiology. New developments in statistics point towards better study designs that allow epidemiologists to answer questions previously unanswerable, and promise better use of evidence, resulting in less bias and more precision. Translating new statistical methods into wide epidemiologic practice requires deep interactions between the fields of epidemiology and statistics. The present symposium provides an opportunity for such cross-field interaction with three leading voices from statistics who have made valuable contributions to the field of epidemiology.

Chair(s): Stephen Cole

Presenters:

• Marco Carone- Inference for survival curves using machine learning

• Eric Tchetgen Tchetgen- New methods for confounding control in observational studies

• Andrea Rotnitzky- Subtleties of estimating causal effects of time dependent treatments identified by graphical assumptions

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Speakers

Stephen Cole
UNC

Marco Carone
Associate Professor, Biostatistics
University of Washington

Eric Tchetgen Tchetgen
University of Pennsylvania

Andrea Rotnitzky
Universidad Torcuato Di Tella

Other is not a race

1:45 PM - 3:15 PM, Jun 15

Salon B-D

Symposia

Epidemiologists and other public health researchers increasingly include data on race in their studies, but fail to present information on how those race data were collected or how they are operationalizing race in their analyses. The most common treatment of race in epidemiologic studies is a three category “Black, White, Other.” Minority race groups that are often underrepresented in research studies are lumped together under the ambiguous label of “Other,” which is not informative of either the phenotypic or social construct of race. Study results for the “Other” category end up uninterpretable, misleading, or dropped from the analysis altogether. Some of the same problems arise in large heterogenous race categories like “Asian” where distinct populations are lumped together, masking potential disparities. This symposium focuses on considerations for researchers who want to disaggregate race in their studies. We will include a discussion of: 1) how lack of data on some minority populations impacts evaluating health disparities, 2) the importance of reporting on distinct populations within categories of heterogeneous race groups when reporting study results, and 3) what we can do analytically when we have small sample sizes for minority race groups. This session will foster dialogue across topic areas and will therefore be of broad interest to SER members seeking to more thoughtfully incorporate the concept of race in their research.

Chair(s): Helen Chin

Candice Johnson

Presenters:

• Salma Shariff-Marco- Importance of disaggregating Asian and Pacific Islander subgroups in cancer research

• Nadia N. Abuelezam- Health risks in minority populations with a focus on Arab or Middle Eastern and North African populations

• Candice Johnson- Health and health disparities in Multiracial and “Other” groups

Speakers

Helen Chin
George Mason University

Salma Shariff-Marco
University of California San Francisco

Danielle Gartner
Assistant Professor
Michigan State University

Nadia Abuelezam
Boston College

Candice Johnson
Assistant Professor
Duke University

Transforming education in a constantly evolving field: A multi-school perspective on how epidemiological curricula evolve and diversify over time in North America

1:45 PM - 3:15 PM, Jun 15

Salon E

Symposia

Epidemiology is taught in dozens of graduate schools in North America and globally but the context in which such training takes place can vary greatly according to several factors: i) is graduate-level epidemiology taught in a school of public health, a medical school, a veterinary school or elsewhere? ii) what is the balance between required substantive (e.g. cardiovascular epi, social epi…) and methods courses iii) How much analysis versus design courses? iv) How much fieldwork and data collection versus class-projects and coding? v) How much causal versus traditional methods in the curriculum?

Furthermore, epidemiology is a constantly evolving field and curricula need to constantly adapt to integrate contemporary public health topics such as structural racism, the COVID-19 pandemic or climate change as well as integrating modern developments in causal inference methods, electronic health record, omics data or machine learning techniques. Such transitions may happen flawlessly or with some resistance and discussing challenges and opportunities regarding such transitions may help identifying some generalizable mechanisms to facilitate such transitions in other contexts.

The main goal of this symposium is to illustrate the diversity of epidemiological curriculums and provide tools on how curriculums can change over time to inspire participants to engage in transitions or reinforce some training components in their own institutions.

Chair(s): Jessie Edwards and Tarik Benmarhnia

Presenters:

• Jay Kaufman- The diversity in epidemiology training across schools in North America and provide a historical perspective in how such training has evolved

• Christine Khosropour-The Epidemiology curriculum at University of Washington

• Ashley Naimi- The Epidemiology curriculum at Emory University

• Elizabeth Rose Mayeda-The Epidemiology curriculum at UC Los Angeles

• Catie Oldenburg-The Epidemiology curriculum at UC San Francisco

Speakers

Jessie Edwards
Assistant Professor
University of North Carolina at Chapel Hill

Jay Kaufman
Professor
McGill University

Christine Khosropour
Assistant Professor
University of Washington

Ashley Naimi
Emory

Elizabeth Rose Mayeda
UCLA

Catie Oldenburg
University of California, San Francisco

Tarik Benmarhnia
Associate Professor
University of California San Diego

Abortion Access in the United States post Roe: public health implications and research gaps

1:45 PM - 3:15 PM, Jun 15

Salon G-H

Symposia

With the Supreme Court's overturning of Roe v. Wade, abortion has been banned or soon will be in over half of US states. While abortion is a critical component of reproductive health care, it has long been siloed away from the field of epidemiology out of concerns about the political nature of the topic. This symposium will provide attendees with an overview of the current state of abortion access in the United States, discuss the robust clinical, public health, and epidemiologic evidence on the impact of abortion restrictions on individual health and wellbeing, and equip epidemiologists with the tools to be conversant in the basic epidemiology of abortion, the safety and effectiveness of abortion, and the public health and equity implications of restricting access to abortion. The symposium will be structured as a panel with a series of speaker presentations, followed by a moderated discussion and open question and answer session.

Panelists will provide an overview of the Dobbs v. Jackson Women's Health Organization opinion and its immediate impact on abortion access at the state level; situate the current state of abortion access within the historical context of reproductive oppression in the United States; highlight the evidence to date on abortion access issues both in the United States and globally; discuss methodological challenges in abortion estimation; and identify research needs and gaps in light of the current context of abortion in the United States

Chair(s): Ruvani Jayaweera

Caitlin Gerdts

Presenters:

• Ruvani Jayaweera - Abortion Access in the United States: History and Context

• Heidi Moseson - The state of the evidence on models of abortion care and provision

• Brittany Charlton - Abortion Access: Research needs, gaps, and action

Speakers

Ruvani Jayaweera
Research Scientist
Ibis Reproductive Health

Caitlin Gerdts
Vice President for Research
Ibis Reproductive Health

Heidi Moseson
Senior Research Scientist
Ibis Reproductive Health

Brittany Charlton
Associate Professor
Harvard Medical School/Harvard T.H. Chan School of Public Health

3:15 PM

Break

3:15 PM - 3:45 PM, Jun 15
Exhibit Hall

Break

3:45 PM

Health Disparities Methods: From Biology to Society

3:45 PM - 5:15 PM, Jun 15
Salon F

Oral Abstract (O…

Chair: Wendy N Nembhard & Kevin Martinez-Folgar

Tracy Lam-Hine - Population-level metrics in racial disparities research: a Multiracial health equity simulation study

Taylor Mobley - Methodological challenges of emulating a target trial assessing the effect of early-life racialized residential segregation on later-life cognitive health

Dougie Zubizarreta - State-level structural racism and healthcare access among Black, Latine, and White US adults

Shawna Follis - Racial and ethnic disparities in neighborhood socioeconomic characteristics and associations with visceral adipose tissue patterning

Kharlya Carpio - Applying the emulation of a target trial approach to identify neighborhood level intervention strategies on the risk of preeclampsia

To view individual abstracts, visit the Abstract Database.

Speakers

Wendy Nembhard
Professor and Chair
University of Arkansas for Medical Sciences

Kevin Martinez-Folgar
Drexel University

Tracy Lam-Hine
Postdoctoral Scholar, Epidemiology & Population Health
Stanford University

Taylor Mobley
PhD Student
University of California, Los Angeles

Dougie Zubizarreta
Harvard T.H. Chan School of Public Health

Shawna Follis
Stanford

Kharlya Carpio
Student

Causal inference methods to improve health research

3:45 PM - 5:15 PM, Jun 15

Salon E

Oral Abstract (O…

Chair: Peter Tennant

Colleen Reynolds - Covariate Adjustment in LGBTQ+ Health Disparities Research: Aligning Methods with Assumptions

Michael Webster-Clark - Variable Selection for Transporting to External Target Populations

Tyler Richter - A simulation study to evaluate a method to adjust summary level data for both confounding and misclassification

Qinyun Lin - Non-parametric sensitivity analysis for causal mediation analysis

Arthur Chatton - Identifying individuals causing positivity violations as missing exclusion criteria: a decision trees-based algorithm

Erin E. Bennett - Methodological considerations in target trial emulation using cohort studies: estimating the effect of antihypertensive medication initiation on incident dementia in ARIC, CHS

To view individual abstracts, visit the Abstract Database.

Speakers

Peter Tennant
Associate Professor of Health Data Science
University of Leeds

Colleen Reynolds
Harvard T.H. Chan School of Public Health

Michael Webster-Clark
McGill University

Tyler Richter
University of Minnesota

Qinyun Lin
Senior Lecturer
University of Gothenburg

Arthur Chatton
UniversitÃ© de MontrÃ©al

Erin Bennett
Senior Research Associate
The George Washington University Milken Institute School of Public Health

COVID-19 Pandemic: Prevention and Transmission

3:45 PM - 5:15 PM, Jun 15

Salon B-D

Oral Abstract (O…

Chair: Kyle Bernstein

Sanjana Pampati - School-based infection prevention strategies and household COVID-19 and respiratory disease related outcomes

Margaret L Lind - Evidence for Leaky Protection Associated with Vaccination and Prior Infection in a Correctional Facility Population

Jean-Paul R. Soucy - Characterizing responsiveness to the COVID-19 pandemic in the United States and Canada using mobility data

Alberto Orlando - Circulation and evidence of sarscov2 transmission from humans to dogs, cats, rodents in the city of Guayaquil.

Insa Backhaus - Far-right-wing voting and COVID-19 vaccine hesitancy

To view individual abstracts, visit the Abstract Database.

Speakers

Kyle Bernstein
Branch Chief, Population Health Workforce Branch
CDC

Sanjana Pampati
Emory University, Rollins School of Public Health

Margaret Lind
Postdoctoral Associate
Yale University

Jean-Paul Soucy
Doctoral Candidate
University of Toronto

Alberto Orlando
Msc.
INSPI

Insa Backhaus
Institute of Medical Sociology, Centre for Health and Society, Medical Faculty, Heinrich Heine University Dusseldorf, Germany

Women's reproductive characteristics and long-term health outcomes

3:45 PM - 5:15 PM, Jun 15

Mt Hood

Oral Abstract (O…

Chair: Lisa DeRoo

Donghao Lu - Elevated mortality among women with perinatal depression: a nationwide register-based study in Sweden

Alexandra Purdue-Smithe - A prospective study of hypertensive disorders in pregnancy and subjective cognitive decline

Kexin Zhu - Adverse pregnancy outcomes and risk of type 2 diabetes in the Women's Health Initiative

Liv Grimstvedt Kvalvik - Pregnancy history at age 40 as a marker of cardiovascular risk

Leslie V. Farland - Infertility and Risk of Postmenopausal Breast Cancer in the Women's Health Initiative

Katherine Campbell - Estimating the association of daytime racial and economic microsegregation with hypertensive disorders of pregnancy in metro Atlanta using mobile phone location data

To view individual abstracts, visit the Abstract Database.

Speakers

Lisa DeRoo
Staff Scientist
NHGRI

Donghao Lu
Assistant Professor
Karolinska Institutet

Alexandra Purdue-Smithe
Associate Epidemiologist/Instructor in Medicine
Brigham and Women's Hospital and Harvard Medical School

Kexin Zhu
PhD Candidate
University at Buffalo

Liv Grimstvedt Kvalvik
University of Bergen

Leslie Farland
Assistant Professor
University of Arizona

Katherine Campbell
Doctoral Candidate
Emory University

Social Determinants of Cardiovascular Health

3:45 PM - 5:15 PM, Jun 15

Salon G-H

Oral Abstract (O…

Chair: Raquel Velazquez-Kronen

Tong Xia - Associations of occupational physical activity with all-cause and cardiovascular disease mortality among workers in the United States, 1988-2019

Lucia Pacca - Differential associations between education and cardiovascular risk by gender and race/ethnicity

Matthew M. Coates - Perceived job discrimination and hypertension risk among US women: Findings from the Sister Study

Guixiang Zhao - Cardiovascular Diseases, Risk Factors, and Health Care Use: Associations with A Summarizing Measure of Social Determinants of Health

Anna Palomar-Cros - Exposure to artificial light-at-night and cardiometabolic health: an urban perspective from the Catalan GCAT cohort study

Marina R. Sweeney - Historic redlining and prevalent diabetes, hypertension, and body mass index in GuLF Study participants

To view individual abstracts, visit the Abstract Database.

Speakers

Raquel Velazquez-Kronen
National Institute for Occupational Safety and Health/Centers for Disease Control and Prevention

Tong Xia
PhD student; Graduate Student Researcher
University of California, Los Angeles

Lucia Pacca
UCSF

Matthew Coates
Department of Epidemiology, Fielding School of Public Health, University of California Los Angeles

Guixiang Zhao
Centers for Disease Control and Prevention (CDC)

Anna Palomar-Cros
Barcelona Institute for Global Health (ISGlobal)

Marina R. Sweeney
DLH/Social & Scientific Systems

Evaluating health policy effects in vulnerable populations

3:45 PM - 5:15 PM, Jun 15

Salon I

Oral Abstract (O…

Chair: Juan Hincapie-Castillo

Ryunosuke Goto - Machine Learning Detects Heterogeneous Effects of Medicaid on Depression: Oregon Health Insurance Experiment

Ariana Mora - Spatially Quantifying the Downstream Impact of Structural Interventions: Role of Minority Depository Institutions in Improving Mortgage Lending Disparities and Community Health

A. Alex Levine - Racial and Ethnic Inequities in Home- and Community-Based Services Waivers for People with Intellectual/Developmental Disabilities: A Nationwide Analysis

Meghana Shamsunder - Heterogeneous Effects of Medicaid Expansions on County-Level Uninsurance Rates: An Application of Structural Nested Mean Models Fit Under Parallel Trends Assumptions

Catherine Vander Woude - The Interaction of Smoke-free Workplace and Hospitality Laws and Cigarette Taxation Among Youth

Matthew Lavallee - The effect of returning to normal: Evaluating politically

To view individual abstracts, visit the Abstract Database.

Speakers

Juan Hincapie-Castillo
Assistant Professor
University of North Carolina at Chapel Hill

Ryunosuke Goto
Pediatrician
The University of Tokyo Hospital

Ariana Mora
Emory University

Meghana Shamsunder
Doctoral Candidate
CUNY Graduate School of Public Health and Health Policy

Catherine Vander Woude
University of Michigan

Matthew Lavallee
Boston College

A. Alex Levine
PhD candidate
Boston University School of Public Health

Study Design - It's All About the People

3:45 PM - 5:15 PM, Jun 15

Columbia

Oral Abstract (O…

Chair: Ronald Gangon & Natascha Merten

Molly Rosenberg - The magnitude and potential influence of pre-baseline survival bias on cognitive impairment prevalence: Findings from the HAALSI cohort in rural South Africa

Ryo Ikesu - Representativeness of the Action to Control Cardiovascular Risk in Diabetes (ACCORD) Trial Participants among Middle-aged and Older Adults Living with Diabetes in the US

Paul Wesson - California State Study of People Experiencing Homelessness: Novel methods to construct a representative sample for surveying California's unhoused population

Edgar Ortiz-Brizuela - Inclusion of asymptomatic individuals in test-negative design studies estimating COVID-19 vaccine effectiveness: a simulation study.

Michael Leung - Inferring effects of time-varying prenatal exposures on pregnancy loss from live-birth-identified conceptions: A simulation study

Erika Beidelman - Investigating the causal effect of cohort participation on mortality in an aging rural South African population: A longitudinal analysis of the HAALSI cohort

To view individual abstracts, visit the Abstract Database.

Speakers

Ronald Gangnon
Professor
University of Wisconsin - Madison

Natascha Merten
Department of Population Health Sciences and Department of Medicine (Geriatrics & Gerontology), School of Medicine and Public Health, University of Wisconsin-Madison

Molly Rosenberg
Indiana University School of Public Health-Bloomington

Ryo Ikesu
University of California, Los Angeles

Paul Wesson
UCSF

Edgar Ortiz Brizuela
PHD Student
McGill University

Michael Leung
Harvard TH Chan School of Public Health

Erika Beidelman
PhD Student
Indiana University School of Public Health-Bloomington

5:30 PM

Strengthening Evidence Across the Cancer Continuum

5:30 PM - 6:00 PM, Jun 15

Salon F

Oral Abstract Speed (O…

Chair - Andrew Olshan

Katie O'Brien - Feminine care products and incidence of hormone-related cancers: A quantitative bias analysis

Theo G. Beltran - The unintended consequences of opioid prescribing policy for cancer patients using interrupted time series, 2014-2019

Sarah Van Alsten - Association of OncotypeDx Testing with Race and Treatment

Caitlin Murphy - A population-based study of birth defects in offspring of adolescent and young adult women with a history of cancer

To view individual abstracts, visit the Abstract Database.

Speakers

Andrew Olshan
Univ. Of North Carolina

Katie Obrien
Staff Scientist
NIEHS

Theo Gabriel Beltran
Graduate Researcher/PhD student
UNC-Chapel Hill Department of Epidemiology

Sarah Van Alsten
UNC Chapel Hill

Caitlin Murphy
University of Texas Health Science Center at Houston

OASS Social

5:30 PM - 6:00 PM, Jun 15

Salon E

Oral Abstract Speed (O…

Chair - Sunmin Lee

Priya Patel - Income inequality and sleep in Canadian adolescents: a multilevel path analysis

Yuka Suzuki - The association between the spouse's working hours and self-rated health in Japan, based on the nationwide survey

Gina Kim - Leading Causes of Death in Korean Americans in the United States and Koreans in South Korea (2005-2020)

Erika Meza - Does my Children's Education Reduce my Risk of Dementia?

Caitlin Chan - Mediating pathways of neighborhood violence on adverse pregnancy outcomes in California

To view individual abstracts, visit the Abstract Database.

Speakers

Sunmin Lee
University of California Irvine

Priya Patel
University of Alberta

Yuka Suzuki
Social and Behavioral Sciences, Faculty of Medicine, Osaka Medical and Pharmaceutical University

Gina Kim
Stanford Center for Asian Health Research and Education (CARE), Stanford University School of Medicine; Department of Chemistry, Johns Hopkins University

Erika Meza
University of California, San Francisco

Caitlin Chan
Student
University of California, Berkeley

OASS Aging

5:30 PM - 6:00 PM, Jun 15

Salon B-D

Oral Abstract Speed (O…

Chair - Jacqueline Torres

Natalie Gradwohl - Association Between Subjective Cognitive Decline and Objective Rate of Cognitive Decline in a Racially and Ethnically Diverse Cohort of Older Adults

Eleanor Hayes-Larson - Estimating dementia incidence in older Asian Americans and Pacific Islanders in California: an application of inverse selection weights

Marcia P. Jimenez - Racial/Ethnic Disparities in the Association between Depression and Cognitive Health

Michelle C. Odden - Neighborhood Factors and Survival to Old Age: The Jackson Heart Study

Haeyoon Chang - The South African Old Age Pension expansion impact on blood pressure of older rural men: Findings from the HAALSI study

To view individual abstracts, visit the Abstract Database.

Speakers

Jacqueline Torres
UC San Francisco

Natalie Gradwohl
UCLA Fielding School of Public Health

Eleanor Hayes-Larson
UCLA

Marcia Pescador Jimenez
Boston University School of Public Health

Michelle Odden
Associate Professor
Stanford University

Haeyoon Chang
Graduate Student Research Assistant for HAALSI study
University of Michigan

"I know kung fu: faster learning through simulation"

5:30 PM - 6:00 PM, Jun 15

Mt Hood

Oral Abstract Speed (O…

Chair - Alex Breskin

Rachael K. Ross - A Warning About Using Predicted Values to Estimate Descriptive Parameters

Alvi Rahman - Comparison of the performance of nested case-control and case-crossover study designs for assessing adverse outcomes of concomitant drug use: a simulation study

Hanna Jardel - Correlated confounders in a mixtures analysis context

Rachael K Ross - Leveraging external data to account for outcome misclassification

To view individual abstracts, visit the Abstract Database.

Speakers

Alex Breskin
Associate Director of Pharmacoepidemiology
Regeneron Pharmaceuticals

Rachael Ross
University of North Carolina at Chapel Hill

Alvi Rahman
Department of Epidemiology, Biostatistics and Occupational Health, McGill University

Hanna Jardel
US EPA

Advancing understanding of epidemiology, etiology, and treatment of substance use with advanced analytical approaches

5:30 PM - 6:00 PM, Jun 15

Salon G-H

Oral Abstract Speed (O…

Chair - Yan Wang

Spruha Joshi - Geographic variability and county-level associations of access to naloxone across three sources

Jeong Eun Min - Comparative effectiveness of buprenorphine/naloxone versus methadone for treatment of opioid use disorder: emulating target trials with population-level data

Deborah Hasin - State cannabis legalization and changes in cannabis use as determined by biologic testing in emergency department patients in the U.S. Veterans Health Administration, 2008 to 2019

Lyndsay Avalos - The Association between in utero Cannabis Exposure and Neonatal Outcomes in a Large Integrated Healthcare Delivery System

Alyssa F. Harlow - Vaping Transitions and Depression Symptoms among Young Adults: A Marginal Structural Model Analysis

To view individual abstracts, visit the Abstract Database.

Speakers

Yan Wang
Assistant Professor
University of Florida

Spruha Joshi
NYU Grossman School of Medicine

J

Jeong Eun Min
Centre for Health Evaluation and Outcome Sciences

Lyndsay Avalos
Research Scientist/Epidemiologist
Kaiser Permanente Northern California, Division of Research

Alyssa Harlow
Postdoctoral Scholar
University of Southern California

D

David S. Fink
Postdoc
New York State Psychiatric Institute

Latebreaker - COVID-19

5:30 PM - 6:00 PM, Jun 15

Salon I

Oral Abstract Speed (O…

Chair - Laura Balzer

Monika Maripuri - Characterizing Long-COVID and Understanding the Utilization of Post COVID-19 Condition ICD code U09.9 in the Veterans Health Administration

Yanhan Shen - COVID-19 Vaccine Reduces Long COVID Incidence Among Infection-Naive Adults in the U.S.: a Target Trial Emulation in a Community-Based Cohort

Kayoko Shioda - Comparative Effectiveness of Alternative Intervals between First and Second Doses of the mRNA COVID-19 Vaccines: a trial emulation approach

Linwei Wang - Social and structural inequalities in COVID-19-related mortality over time: a population-based study of 11 million adults in Ontario, Canada

Kelly Broen - Characterizing the socio-spatial distribution of excess mortality in Michigan during the COVID-19 pandemic

To view individual abstracts, visit the Abstract Database.

Speakers

Laura B. Balzer
Associate Professor
University of California, Berkeley

M

Monika Maripuri
VA Boston Healthcare System

Y

Yanhan Shen
CUNY Graduate School of Public Health and Health Policy; CUNY Institute for Implementation Science in Population Health

K

Kayoko Shioda
Gangarosa Department of Environmental health and Department of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, GA, USA

L

Linwei Wang
Unity Health Toronto

Kelly Broen
Doctoral Student
University of Michigan School of Public Health

Latebreaker - Environment and Climate Change

5:30 PM - 6:00 PM, Jun 15

Columbia

Oral Abstract Speed (O…

Chair - Krista Christensen

Elizabeth Kamai - Prenatal residential proximity to oil and gas wells and depression among urban Latina pregnant women in Los Angeles, CA

Amaree Gardner - Exposure to endocrine disruptors and adverse child health measures in teenagers born extremely preterm

Lisa Frueh - Climate change-related exposures and risk of hospitalization among children aged 0-17 in New York State, 2005-2019: Preliminary analyses from the Understanding Pediatric Susceptibility Across Temperature and Environment in New York (UPStATE NY) Study

Jaime Reyes Sanchez - Does air conditioning modify the temperature-mortality association in Southern California? A study at the census-tract level using a novel measure of air conditioning use

Rachit Sharma - Air pollution, temperature, and social stressors in pediatric seizures and epilepsy: A Structural Equation Modeling approach

To view individual abstracts, visit the Abstract Database.

Speakers

Krista Christensen
US EPA

Elizabeth Kamai
University of Southern California

Amaree Gardner
University of North Carolina- Chapel Hill

Lisa Frueh
Graduate Student
Drexel Dornsife School of Public Health

Jaime Reyes Sanchez
PhD Student
University of Southern California

Rachit Sharma
Dornsife School of Public Health, Drexel University

Latebreaker - Health Disparities

5:30 PM - 6:00 PM, Jun 15

Meadowlark-Douglas

Oral Abstract Speed (O…

Chair - Anna Pollack

Sara McElroy - Social inequities in TB mortality risk in California: a decomposition approach to examine race and ethnicity, nativity, and impact of homelessness

Sokhna A. Gaye - The relationship between education and Cytomegalovirus infection varies by sociodemographic subgroup

Paul Villafuerte - Adolescent Student Bullying Victimization: Differences across Presidential Administrations

Janit Leonard - Race and Risk of Breast-Cancer Related Lymphedema in the United States 2004-2017

Mathilda Regan - Racial/ethnic disparities in case presentation and outcomes of care among US-born individuals diagnosed with tuberculosis, 2003-2019

To view individual abstracts, visit the Abstract Database.

Speakers

Anna Pollack
George Mason University

Sara McElroy
Epidemiologist
California Department of Public Health and University of California, San Francisco

Sokhna A. Gaye
UCSF-FCM

Paul Villafuerte
CUNY Graduate School of Public Health and Health Policy

Janit Leonard
UNC Chapel Hill

Mathilda Regan
Harvard T.H. Chan School of Public Health

SER Business Meeting

5:30 PM - 6:00 PM, Jun 15
Portland

The SER business meeting is open to all members of SER and a great way to meet new leadership and other important work being accomplished.

6:00 PM

SPC Business Meeting

6:00 PM - 6:30 PM, Jun 15
Salon I

Student and Pos…

The SER business meeting is open to all members of SER and a great way to meet new leadership and other important work being accomplished.

6:30 PM

Poster Session 3 and Reception

6:30 PM - 7:30 PM, Jun 15
Exhibit Hall

Poster Reception

To view individual abstracts, visit the Abstract Database.

7:30 PM

SPC Social Event

7:30 PM - 8:30 PM, Jun 15

Student and Pos…

Please join your fellow SPC members for a fun and relaxed evening. This event is not associated with the conference and will be within walking distance from the conference hotel. Food and beverages will be available for purchase but not required.

Fri, Jun 16, 2023

7:00 AM

Membership Committee

7:00 AM - 7:45 AM, Jun 16

Sunstone

Committee Mee…

Mentoring Committee

7:00 AM - 7:45 AM, Jun 16

Pearl

Committee Mee…

8:00 AM

Plenary Session 3

8:00 AM - 9:45 AM, Jun 16

Salon A-F

Plenary

Session Chair: William Miller

Kenneth Rothman Career Accomplishment Award
Sponsor: TBD, Boston University
Award Winner: Jodie Guest

Carol J. Hogue Mid-Career Award
Sponsor: Timothy Lash, Emory University
Award Winner: Shakira Suglia

Roger Detels Infectious Disease Award
Sponsor: Onyebuchi Arah, University of California, Los Angeles
Award Winners: Neel Gandhi and Sarita Shah

Sherman James Diverse and Inclusive Award
Sponsor: Sara Adar, University of Michigan
Award Winner: Sharrelle Barber

Brian MacMahon Early Career Award
Sponsor: Albert Hofman, Harvard TH Chan School of Public Health
Award Winner: Usama Bilal

Noel Weiss and Tom Koepsell Excellence in Education Award
Sponsor: Noel Weiss, University of Washington
Award Winner: Lauren Christiansen-LIndquist

Speakers

William Miller
Ohio State University

Jodie Guest
Professor
Emory University

Timothy Lash
Professor and Chair
Emory University

Shakira Suglia
Emory University

Onyebuchi Arah
UCLA

Neel Gandhi
Emory University

Sarita Shah
Professor of Epidemiology, Global Health, and Medicine
Emory Rollins School of Public Health

Sara Adar
Associate Professor
University of Michigan School of Public Health

Sharrelle Barber
Drexel University Dornsife School of Public Health

Albert Hofman
Stephen B. Kay Family Professor of Public Health and Clinical Epidemiology Chair, Department of Epidemiology
Harvard T.H. Chan School of Public Health

Usama Bilal
Assistant Professor
Drexel University

Noel Weiss
Emeritus Professor
University of Washington

Lauren Christiansen-Lindquist
Director of Graduate Studies for MPH and MSPH Programs in Epidemiology
Emory University

9:45 AM

Break

9:45 AM - 10:15 AM, Jun 16
Exhibit Hall

Break

10:15 AM

Politics and power: how structural racism shapes health inequities

10:15 AM - 11:45 AM, Jun 16

Salon B-D

Symposia

How do politics, political structures, and power create the foundations of structural racism in the United States and how do these factors produce racial health inequities?

Mainstream epidemiology and even much of social epidemiology has historically shied away from examining politics and power. And yet the inequities revealed by the COVID-19 pandemic, recent supreme court decision overriding Roe v. Wade, state threats to voting rights, and racial justice movements that seek to dismantle these forms of oppression illuminate the fundamental importance of politics, political factors, and power in determining who has access to health and health determinants.

Chair(s): Jackie Jahn

Alina Schnake-Mahl

Presenters:

• Jamila Michenor- Discussant

• John Pamplin- Discussant

• Julia Raifman- Discussant

• Ryan J. Petteway- Discussant

Speakers

Jackie Jahn
Assistant Professor
Drexel University

Alina Schnake-Mahl
Assistant Professor
Dornsife School of Public Health, Drexel University

Jamila Michenor
Cornell University

John Pamplin
SER Student and PostDoc Committee

Julia Raifman
Assistant Professor
Boston University School of Public Health

Ryan Petteway
Associate Professor
OHSU-PSU School of Public Health

Studying abortion in the post-Roe US: methods, challenges, and innovations

10:15 AM - 11:45 AM, Jun 16

Salon G-H

Symposia

This symposium responds to the recent changes in access to abortion and abortion rights in the US. Studying abortion and health has long been challenging because abortion is stigmatized and underreported. Epidemiologic challenges will increase as individuals frequently self-administer abortion drugs or are required to travel far distances to a clinic. To continue answering pressing questions, abortion researchers have been developing a wide range of creative approaches. In this symposium, we will explicitly discuss novel methods (i.e., methods other than recruiting at abortion clinics) to study abortion and health.

Specifically, each speaker will discuss their recent research findings as well as detailing the strengths and weaknesses of a specific method they use. Panelists use a broad range of methods, including collaborating with and analyzing data collected by an abortion fund in the Southeast US; recruiting abortion seekers using Google ads; using machine learning to utilize data from Google searches and Reddit posts; and using policy analysis to connect state-level abortion policy to infant and maternal mortality.

This symposium is very timely and will be of interest to epidemiologists studying abortion; those studying other stigmatized topics in health; and those interested in learning more about abortion and health.

Chair(s): Susanna Mitro

Presenters:

• Maeve Wallace- Population health consequences of constrained choice: state abortion restriction policies in association with maternal and infant mortality

• Ushma Upadhyay- Using Google Ads to identify people seeking abortion who have not (yet) reached an abortion provider

• Whitney Rice- Reproductive rights and justice community-academic research partnership in the US Southeast: from abortion funds to testimony

• Betsy Pleasants- Big Data for Abortion Research: Leveraging Use of "Everyday" Technologies for Real-Time Insights

• Melissa Madera- Experiences of self-managed medication abortion in the United States

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Speakers

Susanna Mitro
Staff Scientist
Kaiser Permanente Northern California Division of Research

Ushma Upadhyay
Professor
University of California, San Francisco

Whitney Rice
Emory University Center for Reproductive Health Research in the Southeast (RISE)

Betsy Pleasants
University of California Berkeley School of Public Health

Maeve Wallace
Assistant Professor
Tulane University School of Public Health and Tropical Medicine

Melissa Madera
Melissa

Is epidemiology a statistical technocracy?: Resisting reduction in public health research.

10:15 AM - 11:45 AM, Jun 16

Salon I

Symposia

Audrey Lorde asks: "What does it mean when the tools of a racist patriarchy are used to examine the fruits of that same patriarchy? It means that only the most narrow parameters of change are possible and allowable." The rise of statistical thinking is stained with the legacy of eugenics and other essentializing theories of human difference. While epidemiology is a pluralistic discipline, the dominant paradigms in statistics and causal inference increasingly structure epidemiologic thought and practice. This symposium marks a space for disciplinary introspection. In Part 1, we locate a history of estimands designed by methodologists, not for their faithfulness to real-world public health problems, but precisely for their desirable statistical properties. We emphasize recent developments for the study of mechanism and mediation. In Part 2, we critically examine the impact of these trends by deconstructing contemporary investigations of racial difference and health equity in epidemiology. As case studies, we examine recent proposals for studying health disparities and present counterexamples to illustrate their limitations. In Part 3, we present innovative proposals that overcome some of these limitations. Proposals will be framed not as solutions but as invitations for imagining new methodologies that better capture the complexities in social and critical theories for public health. The symposium will close with 15 minutes of Community Discussion.

Chair(s): Aaron Sarvet

Presenters:

• Aaron Sarvet- The mission creep of causal inference

• Elle Lett- The exception is the rule: causal Inference assumptions violate the real world

• Mats Stensrud- Recent causal estimands for health disparities: pragmatic tools or "imaginary can-openers"?

• Keletso Makofane- Causation and Connections: Networks and Interference

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Speakers

Aaron Sarvet
EPFL: Ecole Polytechnique Federale de Lausanne

Elle Lett
MD / PhD candidate
University of Pennsylvania

Mats Stensrud
EPFL

Keletso Makofane
Harvard University

Emerging approaches to address systematic errors in epidemiologic studies

10:15 AM - 11:45 AM, Jun 16

Salon E

Symposia

Systematic errors—including selection bias, information bias, and uncontrolled confounding—are widely recognized threats to validity in epidemiologic studies. These biases are often listed as a potential limitation in the discussion section of manuscripts; however, quantitative bias analysis includes a robust set of tools to account for bias in epidemiologic analyses. New design and analytic approaches are being developed in epidemiology that account for systematic errors quantitatively, often by combining epidemiologic data with validation or external data source. Examples of these approaches include leveraging external data to account for misclassification or uncontrolled confounding, missing data imputation methods to address measurement error, and validation substudy design to account for time trends in classification parameters. In this session, our goal is to discuss recent advancements in quantitative bias analysis and provide a framework to how researchers may want to account for systematic errors in their study's design and analysis. We propose a session with four invited speakers and a discussant who will unify the presentations with a panel discussion and a question and answer session

Chair(s): Lindsay Collin

Timothy Lash

Presenters:

• Lindsay Collin- Introduction and Overview

• Alex Breskin- Everything everywhere all at once: data fusion designs to address multiple sources of systematic error

• Susan Mason- Maternal early adversity associations with retrospectively self-reported pre-pregnancy weight and gestational weight gain: a multiple imputation approach to adjust for measurement error in the outcomes

• Thomas Ahern- Adjusting adjustments: Using external data to simulate the impact of different confounder sets on published associations

• **Kayleigh Lawson-Michod**- Time trends in classification parameters: detection and approach

• **Hailey Banack**- Discussant

Speakers

Lindsay Collin
Postdoctoral Fellow
Huntsman Cancer Institute

Timothy Lash
Professor and Chair
Emory University

Thomas Ahern
Associate Professor
University of Vermont

Alex Breskin
Associate Director of Pharmacoepidemiology
Regeneron Pharmaceuticals

Susan Mason
Associate Professor
University of Minnesota

Kayleigh (Katherine) Lawson-Michod
PhD Candidate
Huntsman Cancer Institute, University of Utah

Hailey Banack
University of Toronto

Preliminary Impacts of Oregon's Drug Possession Decriminalization and Community Reinvestment Law (Measure 110)

10:15 AM - 11:45 AM, Jun 16

Meadowlark-Douglas

Symposia

The “War on Drugs” is a key driver of health inequities and racial disparities in the United States. Its negative impacts, including police violence, incarceration, and the collateral consequences of arrest and conviction, fall disproportionately on people of color and members of other marginalized groups. They span individual-, family-, community-, and societal-levels and reverberate across generations.

Decriminalizing drug possession and re-directing public funds toward drug treatment and recovery has the potential to reduce these negative impacts. Oregon recently became the first state to adopt a more health and equity-focused approach to drug-related harm by decriminalizing low-level drug possession and redirecting funds towards evidence-based approaches to drug use. A ballot initiative, Measure 110 (M110), re-classified possession of small amounts of drugs to a violation and larger amounts from a felony to a misdemeanor. Tens of millions of dollars were directed to care and treatment for people who use drugs, although funds are still being rolled out.

This symposium will discuss state-level surveillance approaches and share early findings of an evaluation of the impact of M110 on arrests and overdose using interrupted time series with comparison group. Our evaluation approach was driven by formative research with people who use drugs in Oregon, who identified metrics of importance and provided advice on how to structure the research project.

Chair(s): Bianca Rivera

Spruha Joshi

Presenters:

• Spruha Joshi- Drug Decriminalization in Oregon: Impacts on arrests for drug possession, Interrupted time series analysis, 2019-2021

• Bianca Rivera- Downstream Impacts of Decriminalization: An Interrupted Time Series Analysis of Fatal & Non-Fatal Drug Overdose, 2019-2021

• Julia Dilley- Measures that Matter: Monitoring state and regional metrics for ongoing assessment, planning, and program improvement

• Haven Wheelock- From ballot to implementation: Lessons learned and future steps for increasing access to services and treatment

• Corey S. Davis- Discussant

Speakers

Bianca Rivera
NYU School of Medicine, Department of Population Health, Center for Opioid Epidemiology and Policy

Spruha Joshi
NYU Grossman School of Medicine

Julia Dilley
Multnomah County Health Department/Oregon Health Authority Public Health Division

Haven Wheelock
IDU Health Service Program Coordinator
Outside In

Corey Davis
NYU

Answering questions by combining data sources

10:15 AM - 11:45 AM, Jun 16

Mt Hood

Symposia

A single data sources may be unable to adequately address pressing public health questions. Rather than accept these constraints, epidemiologists have taken steps to integrate information across multiple sources of information. Historically, two-stage studies, validation studies to correct for measurement error, mathematical modeling, and meta-analysis have all relied on combining or 'fusing' data across various sources. More recently, some of these approaches have been sharpened through the lens of causal inference. We build on the discussion prompted by last year's "The New Epidemiology of Fusion Designs" by expanding the exchange to additional areas of epidemiologic methods research. To provide a clear synthesis of recent developments in the integration of information across sources, we have assembled a diverse panel of methodological experts to discuss the breadth of approaches to integrate information from varied sources; including meta-analysis, Bayesian analyses, and mathematical modeling. Speakers will showcase how these approaches can improve our ability to learn from data from both theoretical and practical perspectives. Attendees of the proposed session will gain exposure to a variety of modern tools at the forefront of methodological developments to combine data across sources and corresponding use cases in several substantive areas.

Chair(s): Paul Zivich

Jessie Edwards

Presenters:

• Stephen Cole- Combining sources of information using a data fusion perspective

• Issa Dahabreh- Combining information from multiple sources to learn about a target popoulation: meta-analysis and beyond

• Eric Lofgren- Just Bring Me Everything: Data Fusion in Mathematical Model Fitting and Parameterization

• Leon Di Stefano- Careful hierarchical Bayesian modelling for pooling information across trials

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Speakers

Paul Zivich
University of North Carolina - Chapel Hill

Jessie Edwards
Assistant Professor
University of North Carolina at Chapel Hill

Stephen Cole
UNC

Issa Dahabreh
Department of Epidemiology, Harvard T. H. Chan School of Public Health

Eric Lofgren
Associate Professor
Washington State University

Leon Di Stefano
PHD Candidate
Johns Hopkins Bloomberg School of Public Health

Spatial Epidemiologic Methods for Health Disparities Research

10:15 AM - 11:45 AM, Jun 16

Columbia

Symposia

Spatial epidemiology is the study of the spatial distribution and spatial determinants of health and well-being in human populations. Despite the increasingly recognized salience of neighborhoods on health outcomes and health behaviors, less spatial epidemiology work has been conducted on minoritized and marginalized populations. As physical and social environments give rise to health disparities, the increasing availability of high-resolution geospatial data (e.g. satellite-based data), emerging environmental exposures (e.g. wildfires), and contextual administrative data (e.g. land use mix) provides significant opportunities for spatial epidemiologic research to examine health disparities and promote health equity. Specifically, spatial epidemiology can map historic and ongoing processes to reveal sociopolitical and environmental causes of observed health disparities. Identifying these causes allows us to model impacts of policies, structural racism, and changing climate that address social inequities and remove harmful environmental exposures on health disparities. The objective of this symposium is to present and discuss cutting-edge spatial epidemiologic methods for examining health disparities with applications in diverse populations such as sexual minority men, historically marginalized communities, and resource limited settings (among others).

Chair(s): Hoda S. Abdel Magid

Marcia Pescador Jimenez

Presenters:

• Hari Iyer-Discussant

• Arrianna Marie Planey-Discussant

• Dustin T. Duncan- Discussant

• Joan A. Casey- Discussant

Speakers

Hoda Magid
Instructor
Stanford University

Marcia Pescador Jimenez
Boston University School of Public Health

Hari Iyer
Rutgers Cancer Institute of New Jersey-Robert Wood Johnson Medical School

Arrianna Marie Planey
Assistant Professor
Department of Health Policy & Management, Gillings School of Global Public Health, University of North Carolina, Chapel Hill

Dustin T. Duncan
Professor
Department of Epidemiology, Columbia University Mailman School of Public Health

Joan A. Casey
Columbia Mailman School of Public Health

Specifying and emulating target trials to estimate causal effects of complex exposures

10:15 AM - 11:45 AM, Jun 16

Salon F

Symposia

Target trial (TT) emulation is an increasingly utilized approach to estimate causal effects from observational data. Investigators outline key components of the hypothetical trial (the target trial) they would like to conduct and then attempt to emulate each component using observational data. TT emulation helps avoid common pitfalls of observational data analysis while generating results that are potentially more generalizable.

The TT framework is frequently used to study the effects of pharmacologic interventions (e.g. medications, vaccines) for which the intervention and key elements of time zero are sufficiently well-defined, and most pedagogical examples of the TT framework are taken from pharmacoepidemiology. However, TT emulation is and should be used in other areas of epidemiologic research, even though specifying a TT and emulating its components may be more challenging.

The objectives of this symposium are to discuss the role of TT emulation to evaluate causal effects of complex exposures for which the intervention or elements of time zero may not be sufficiently well-defined and to provide practical tools to conduct TT emulation in these settings. Speakers will present examples of TT emulations in environmental, social, and nutritional epidemiology and health policy. The discussant will highlight advantages and challenges of using TT emulation to estimate causal effects of complex exposures. The symposium will conclude with a Q&A panel with all speakers.

Chair(s): Ellen Caniglia

Enrique Schisterman

Presenters:

• Kevin Josey- Target trials in environmental epidemiology

• L Paloma Rojas-Saunero- Target trials in social epidemiology - conducting and emulating trials to study effects of social interventions

• Deirdre Tobias- Target trials in nutritional epidemiology

• Nick Seewald- Target trials in health policy - target trial emulation for policy evaluation

• Jessica Young - Discussant

Speakers

Ellen Caniglia
University of Pennsylvania

Enrique Schisterman
University of Pennsylvania

Kevin Josey
Harvard TH Chan School of Public Health

L. Paloma Rojas-Saunero
Postdoctoral fellow
Epidemiology department, Fielding School of Public Health, UCLA

Deirdre Tobias
Brigham and Women's Hospital; Harvard

Nicholas Seewald
Johns Hopkins Bloomberg School of Public Health

Jessica C. Young
Postdoctoral Researcher
Karolinska Institutet

11:45 AM

Break

11:45 AM - 12:00 PM, Jun 16

Exhibit Hall

Break

12:00 PM

Writing a Compelling Individual Diversity, Equity, and Inclusion (DEI) Statement

12:00 PM - 1:00 PM, Jun 16

Salon F

Professional Develop…

Diversity, equity, and inclusion (DEI) statements are increasingly being required for academic job applications (faculty and postdoctoral positions), promotion packets, and academic conference submissions. Hiring and reviewing committees' expectations for DEI statements are often opaque, and there is generally no formal training on how to write a strong DEI statement, leaving many of us questioning how best to write a compelling statement. Across career stages, even early career stages, we all have DEI experiences to highlight, and the purpose of this session is to review best practices for what is appropriate to include in a DEI statement and discuss various ways of approaching DEI statements across career stages. From the vantage point of reviewing DEI statements, we will also discuss controversies about how these statements should inform the evaluation of job applicants and promotion decisions.

• Cara Frankenfeld

• Stephen Gilman

• Victor Puac-Polanco

Speakers

Cara Frankenfeld
Professor and MPH Program Director
University of Puget Sound

Stephen Gilman
NICHD, NIH

Victor Puac-Polanco
Assistant Professor
SUNY Downstate

Where the Epidemiologists Are

12:00 PM - 1:00 PM, Jun 16

Salon E

Professional Develop…

Academic epidemiologists are strongly represented at the Society for Epidemiologic Research (SER) conference, but epidemiologists are found everywhere. This symposium aims to describe the role of the epidemiologist in various non-academic spaces, highlighting opportunities for students and early career epidemiologists across a range of areas. The audience will gain an understanding of the diversity of positions available in research for epidemiologists beyond those available in academia. Speakers from government, private research firms, non-profit, and the pharmaceutical industry will present on their experiences and transitions along their career development.

• Milena Gianfrancesco – Discussant

• Kacie Seil – My Journey in Local Government

• Christophe Toukam - Transitioning from Academia to Industry

• Maria Zlotorzynska - Experience in the Non-Profit Sector

Speakers

Milena Gianfrancesco
Pfizer, Inc.; UCSF

Kacie Seil
New York City Department of Health & Mental Hygiene

Christophe Tchakoute
Roche / Genentech

Maria Zlotorzynska
Health Scientist
Centers for Disease Control and Prevention

Developing and sustaining your research and professional agenda

12:00 PM - 1:00 PM, Jun 16

Salon B-D

Professional Develop…

Epidemiologists are well-trained in the knowledge and skills of the profession yet have few formal opportunities to learn the strategic planning and time management skills that will most influence their career advancement. Apart from the usual milestones associated with epidemiologic training and career promotion, the trajectory of one's career is largely self-directed. Identifying professional goals at all stages of your career and developing concrete plans on how to achieve them can be daunting.

This dynamic session is designed to provide attendees with the tools to develop a personal strategy for successfully navigating their scientific, professional, and personal goals. This session's objectives are to provide initial training in three areas, and resources for self-learning after the session concludes. The three areas will be: (a) developing your research agenda, (b) finding the right fit and (c) planning and time management. For each, we will explain the importance of the skill for career advancement and provide content to initiate learning about the skill. Each segment will conclude with a Q&A and opportunity for engagement with scholars across the career trajectory (doctoral trainees to mid-career scientists).

• Holly Harris – Discussant

Speakers

Lauren McCullough
Emory University

Holly Harris
Associate Professor
Fred Hutch Cancer Center

Sat, Jun 17, 2023

8:00 AM

An overview of Difference-in-Difference and Synthetic Control Methods: Classical and Novel Approaches

8:00 AM - 8:00 AM, Jun 17

Workshop (Virtual) Post-Co…

WORKSHOP DATE: July 7, 10:00am - 2:00pm Mountain Time

The interest in and use of quasi-experimental methods to evaluate the effect of a health policy or event on a health outcome has drastically increased in the epidemiological literature. Difference-in-differences (DID) and synthetic control (SC) designs exploit the specific timing and place of an intervention implementation as a natural experiment. Canonical versions of such designs have been typically used in settings including one policy/treatment of interest relying on several identification assumptions. In the past few years, recently developed designs based on staggered DID and SC have been proposed to relax several assumptions and handle multiple time periods and exposed units. Furthermore, many flexible extensions of the SC methods have been proposed such as the generalized synthetic control.

In this workshop, we propose an overview of DID and SC methods including the recent developments covering the historical context, the identification assumptions under the potential outcomes framework, and the different steps to implement such methods using various case studies. This workshop will introduce the theory and practice on the what, why, and how to implement canonical and staggered DID and SC methods (including the generalized synthetic control) in R/Rstudio. Attendees will work individually on hands-on programming exercises.

Speakers

Roch Nianogo
UCLA Fielding School of Public Health

Tarik Benmarhnia
Associate Professor
University of California San Diego

Causal inference and competing events

8:00 AM - 8:00 AM, Jun 17

Workshop (Virtual) Post-Co…

WORKSHOP DATE: July 6, 10:00am - 2:00pm Mountain Time

A competing risk event is any event that ensures the outcome of interest cannot subsequently occur. For example, in a study where prostate cancer death is the primary outcome, a fatal stroke is a competing event because an individual cannot die of cancer once they have died of stroke. When competing events are present, many possible definitions of a causal effect may be considered. Choosing a causal effect of practical interest requires understanding the interpretation of different counterfactual contrasts and the assumptions needed to identify them using the study data and subject matter knowledge. This workshop will introduce participants to a counterfactual framework for causal inference in the face of competing events. Participants will learn how to articulate and interpret different types of causal effects when competing events are present, and approaches to estimating them under transparent assumptions with the aid of causal diagrams. In part I, we cover counterfactual contrasts of popular parameters from the competing risks literature, including contrasts of cause- specific and subdistribution hazards, and cause-specific cumulative incidences and their relation to total and controlled direct effects from the mediation literature. In part II, we introduce the separable effects, new causal effect definitions that may be of particular clinical relevance in competing events settings. Theoretical concepts will be illustrated via practical examples and R code provided.

Speakers

Jessica Young
Associate Professor
Harvard Medical School

L. Paloma Rojas-Saunero
Postdoctoral fellow
Epidemiology department, Fielding School of Public Health, UCLA

Mats Stensrud
EPFL

What would it take to change your inference? Quantifying the Discourse about Causal Inferences in Epidemiology

8:00 AM - 8:00 AM, Jun 17

Workshop (Virtual) Post-Co…

WORKSHOP DATE: July 18, 10:00am - 2:00pm Mountain Time

Causal inferences are often challenged because of uncontrolled bias. There may be bias due to uncontrolled confounding variables or non-random selection into a sample. We will turn concerns about potential bias into questions about how much bias there must be to invalidate an inference. For example, challenges such as 'But the inference of an exposure might not be valid because of pre-existing differences between the treatment groups' are transformed to questions such as 'How much bias must there have been due to uncontrolled pre-existing differences to make the inference invalid?' By reframing challenges about bias in terms of specific quantities, this workshop will contribute to scientific discourse about uncertainty of causal inferences. Critically, the approaches presented in this workshop based on correlations of omitted variables and the replacement of cases have strong intuitive appeal. In part I, we use Rubin's causal model to interpret how much bias there must be to invalidate an inference in terms of replacing observed cases with counterfactual cases or cases from an unsampled population. This is extended to logistic regression. In part II, we quantify the robustness of inferences in terms of correlations associated with unobserved variables. Calculations will be presented using the open-source app http://konfound-it.com with links to R and Stata modules. The format will be a mixture of presentation and individual hands-on exploration as well as group work.

Speaker

kenneth Frank
Michigan State Foundation Professor of Sociometrics
michigan state university