SER Mid-Year Meeting

Meeting Date: 08/03/2024   **Start Time:** 8:00 a.m. EST   **End Time:** 5:30 p.m. EST

Meeting Location: Mars Discovery District, 101 College St, Toronto, ON M5G 1L7

The theme of this year's SER mid-year meeting is Innovative Data Science Applications in Epidemiology. The availability of big data sources has dramatically changed in recent years, and as a result, the methods that fall under the umbrella of data science have been rapidly evolving. This meeting will highlight the latest advances in data science as they relate to the practice or field of epidemiology.

For in-person attendees, please join us for a welcome reception and social event on Thursday, March 7, from 6-8 pm at the Faculty Club, University of Toronto, 41 Willcocks St, Toronto, ON M5S 3G3.

TIME	SESSION DESCRIPTION
8:00 am - 8:30 am	**Registration and Coffee**
8:30 am - 8:45 am	**Welcome** Hailey Banack &Laura Rosella
8:45 am - 9:30 am	**Morning Keynote: Stemming the Tide of the U.S. Overdose Crisis: How Can Data Science and AI Help?** Magdalena Cerda
9:30 am - 10:15 am	**Panel 1: Data Science at the Intersection of Academia with Healthcare and Public Health** Introduction: Lief Pagalan Moderator: Robert Platt Panelists: Joe Kim, Adalsteinn (Steini) Brown, Zahra Shakeri
10:15 am - 10:45 am	**Break**
10:45 am - 11:45 am	**Invited Talks #1:Data Science Innovations in Descriptive Epidemiology and Surveillance – New Data Sources and Novel Methods** Introduction: Mary Aglipay (continued on next page)

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TIME	DESCRIPTION
10:45 am - 11:45 am	(continued) Moderator: David Buckeridge Speakers: 1.Hiroshi Mamiya: Model-Based Estimation of Population Health Indicators - Promises and Pitfalls 2.Laura Anderson: Exploring the Use of Social Media Data for Descriptive Studies of Chronic Disease Risk Factors During the COVID-19 Pandemic 3.Camellia Zakaria: Privacy-Preserving Audio Data for Indoor Air Quality 4.Helen Chen: Harnessing Social Media and Synesthetic Data for Epidemiological Insights
12:00 pm - 1:00 pm	**Lunch and Learn: Harnessing the Power of AI in Cancer Research** Dr. Alejandro Berlin
1:00 pm - 1:45 pm	**Afternoon Keynote: AI and Health Disparities** Irene Y. Chen
1:45 pm - 2:45 pm	**Invited Talks #2: Advances in AI and Data Science in Predictive & Etiologic Applications for Epidemiology** Introduction: David-Dan Nguyen Moderator: Sonia Grandi Speakers: 1.Arif Jetha: Workplace AI Adoption: Exploring Changing Determinants to Worker Health and Equity 2. Andy Wong: Predicting Image Feature Boundaries and Disease Risk Strata with Convolutional Neural Networks (continued on next page)

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TIME	DESCRIPTION
1:45 pm - 2:45 pm	(continued) 3.Jude Kong: Harnessing the Power of Data: Artificial Intelligence-Based Diseases Outbreak Support 4.Richard Perez: Translating Cross-sectional National Population Health Surveys into Quasi-longitudinal Cohorts
2:45 pm - 3:00 pm	**Break**
3:00 pm - 4:30 pm	**Invited Talks #3:Target Trial Emulation in Nutritional Epidemiology** Speakers: 1.Yu-Han Chiu: Estimating the Effect of Food Substitution Strategies 2.Dalia Stern: Applying the Target Trial Framework for Nutritional Interventions - Challenges and Opportunities 3.Octavio Pano: Benchmarking the PREDIMED Trial - Methodological Considerations for Two Cohorts of US Men and Women 4.Natalia Ortega: Causal Effects of Micronutrients - Identifying Mechanistic Estimands Applying the Target Trial Framework 5.Conor MacDonald: Are All Interventions the Same? The Validity of Meta-Analyses in Nutritional Epidemiology
4:30 pm - 5:15 pm	**Panel 2: Is Advanced Data Science and AI an Essential Component of Modern Epidemiology?** Moderators: Laura Rosella & Jaky Kueper Panelists: Jay Kaufman, Lisa Strug, Monica Alexander, Arjumand Siddiqi
5:15 pm - 5:30 pm	**Closing** Hailey Banack & Laura Rosella