



**HARVARD**  
**T.H. CHAN**

**SCHOOL OF PUBLIC HEALTH**  
Department of Epidemiology

# SUMMER SHORT COURSES

# CAUSAL INFERENCE

SPONSORED BY THE DEPARTMENT OF EPIDEMIOLOGY AT HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH

**WEEK 1: JUNE 1-5, 2020**  
**WEEK 2: JUNE 8-12, 2020**  
**9AM - 12PM & 1:30PM - 4:30PM**

**HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH**  
**677 HUNTINGTON AVE, BOSTON, MA**

**Week 1 An Introduction to Causal Inference:** This 5-day course introduces concepts and methods for causal inference from observational data. Upon completion of the course, participants will be prepared to further explore the causal inference literature. Topics covered include the g-formula, inverse probability weighting of marginal structural models, g-estimation of structural nested models, causal mediation analysis, and methods to handle unmeasured confounding. The last day will end with a “capstone” open Q&A session with the instructors.

**Faculty:** Miguel Hernán, Judith Lok, Eric Tchetgen Tchetgen, James Robins, Tyler VanderWeele

**Week 2:** *New!* Week 2 will consist of five days of half-day intermediate and advanced courses with morning and afternoon sessions. Participants can choose a combination of 2 half-day topics offered, allowing each participant to create an amalgam of courses to fit their educational needs. Topics include: Instrumental Variables and Causal Inference, Causal Mediation Analysis, Causal Inference in Health Decision Making, Machine Learning for Causal Inference.

**Faculty:** Linda Valeri, Barbra Dickerman, Andrew Beam, Uwe Siebert

**Tuition:** Week 1 \$700 per person, to be paid at time of registration  
Week 2 \$500 per course, to be paid at time of registration  
Tuition waivers available for a limited number of students

[WWW.HSPH.HARVARD.EDU/CAUSAL/SHORTCOURSE/](http://WWW.HSPH.HARVARD.EDU/CAUSAL/SHORTCOURSE/)

