**2026 COURSES IN THE DEPARTMENT OF EPIDEMIOLOGY**

**CAUSAL INFERENCE**
**LEARN FROM THE EXPERTS**

CAUSALab
*A Center to Learn What Works*

**HARVARD**
**T.H. CHAN**
SCHOOL OF PUBLIC HEALTH

## Advanced Confounding Adjustment
## June 15-18, 2026

Instructors: Joy Shi, Barbra Dickerman, Miguel Hernán

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|---|---|---|
| 9:30 am - 11:00 am | The bias of conventional methods for time-varying treatments | IP weighting for dynamic treatment strategies | Hands-on: Estimating the effect of static treatment strategies via the parametric g-formula | Plug-in g-formula: iterative conditional expectation (ICE) | No class (Juneteenth) |
| 11:10 am - 12:30 pm | Hands-on: Treatment confounder feedback: the bias of conventional methods | Hands-on session: Estimating the effect of static treatment strategies via IP weighting | Plug-in g-formula for dynamic treatment strategies | Hands-on: Estimating the effect of treatment strategies via the parametric ICE g-formula *(R only)* | |
| 12:30 pm - 1:30 pm | Break | | | | |
| 1:30 pm - 3:00 pm | IP weighting for time-varying treatments | Hands-on: Estimating the effect of dynamic treatment strategies via IP weighting | Hands-on: Estimating the effect of dynamic treatment strategies via the parametric g-formula (part 1) | IP weighting combined with the ICE g-formula: multiply robust estimation | No class (Juneteenth) |
| 3:10 pm - 4:30 pm | Hands-on: Estimating IP weights for static treatment strategies | Plug-in g-formula for time-varying treatments | Hands-on: Estimating the effect of dynamic treatment strategies via the parametric g-formula (part 2) | Hands-on: Estimating the effect of treatment strategies via multiply robust methods *(R only)* | |