

2023 - Africa Training Workshop in Econometrics (ATWE-2023)

Title: Climate Change and Causal Inference

Date: June 12-14, 2023

Purpose: This workshop will combine lectures on existing research in climate economics together with an introduction to causal inference methods.

Organizers: [Dalia Ghanem](#) (UC Davis) and [Prosper Dovonon](#) (Concordia University)

Format: Fully remote

Registration fees: 100 USD

Topics and Instructors:

Climate Economics, [Maximilian Auffhammer](#), University of California, Berkeley

- Scientific Background on Climate Change (Brief Review of AR6, focus on Africa)
- Tutorial on available weather and climate data and how to get them into a usable format.
- Overview of Social Cost of Carbon.
- Introduction to Damage Functions.
- Introduction to Damage Function Estimation
- Heterogeneous Panels and Simulation.
- Overview of the Moving Frontier.
- Open Questions in the field and research opportunities with a focus on Africa.

Causal Inference, [Desire Kedagni](#), University of North Carolina, Chapel Hill

- Potential outcomes framework
- Selection bias in observational studies
- Randomized control trials
- Selection on observables and inverse probability weighting
- Instrumental variables estimation and interpretation
- Difference-in-differences methods and sensitivity analysis

Schedule:

All times below are in Canada/USA EST. The climate change component will be given over two 3-hour sessions, whereas the causal inference component will be delivered three 2-hour sessions.

	June 12	June 13	June 14
08:30AM - 10:30AM	Causal Inference Session I	Causal Inference Session II	Causal Inference Session III
11:00AM - 02:00PM	Climate Change Session I	Climate Change Session II	