Causal Inference Working Group

March 22, 2023

Welcome to the Causal Inference Working Group!

- We hope that this will be a great opportunity to learn and develop research in the field of causal inference.

Goals

- Understand the Causal Inference literature,
- Identify new areas of research,
- Introduce new researchers to the Causal Inference field, and
- Create a repository to facilitate future work.

Understanding the Literature

- Most of what we are planning to do initially is to have people present existing work.
- We hope that people will present papers, packages, and research ideas.
- We want to understand what has been done *and* especially what is missing.

Identifying New Areas of Research

- When we know what needs to be done, we can fill this research gap.

Introducing New Researchers to the Field

- Many people here may be new to causal inference and we want to welcome you and get you started doing good research.
- Encourage good teaching practices when presenting.

Creating a Repository

- We have a GitHub repo.
- The purpose of this is to make it easier for people to understand what already has been done, compare new ideas with existing methods, and provide a space for people to work together.

General structure

Format 1: One main presentation

- 10 min: warm-up discussion before presentation
- 30-40 min: main presentation
- 10 min: main discussion after presentation

Format 2: Two related presentations

- 5 min: warm-up discussion before presentation
- 15-20 min: main presentation
- 5 min: main discussion after presentation

Expectations

- Treat people with respect.
- Ask questions. (Even if you need to interrupt.)
- Give constructive feedback.
- Start and end on time.

Introductions

- Introduce yourself to a neighbor and
- Explain why you are interested in this causal inference group.

Hopes

- Give opportunity for all to present existing and new ideas,
- Conduct good research,
- Learn from each other and give opportunities to learn from each other, and
- Work together to learn and produce work in an exciting and growing field.

Ways to Help

- Present a paper
- Present a research idea
- Present an R (or Python) package and explain it with reproducible examples
- . . .

Resources

- ISU Causal Inference GitHub repository
- Online Causal Inference Seminar
- CRAN Task View: Causal Inference