

Some Quick Rules of Engagement

- Please keep your camera on, if possible
- Silence your mic unless you are speaking
- If you have a question/comment, use the "raise hand" feature. You can also post question in the chat, but I may not see them right away.

About me...

- Assistant Professor of Political Science, University of Toronto, since June 2020
- My research areas are network analysis, spatial statistics, substantive focus on non-state violent actors
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- Teaching Assistants

Outline

- Introduction
- Objectives, software, modules
- Assessment/Grades
- What do you already know?
- Getting started

"Tall-Order" Objective

• Become proficient in network theory and analysis, including implementation in R

Objectives

- Learn how to deal with complex messy networks data
- Use graphics to visualize and understand networks
- Gain familiarity with formatting/managing networks data
- Become fluent in common networks packages in R
- Learn to perform inferential network analysis using a variety of cutting-edge tools

Set-up

- Complete assigned readings before each class
- Learn the theory/concepts and applications
- About 2:1 split of class between teaching:practice
- Recommend 2 screens: one to watch slides, one to follow along in R

Assessments

- 4 homework assignments due each Friday
- 25% each
- Revise what we covered, synthesize some new information

Lectures

- We have a course website: https://networkanalysis.netlify.app/
- All class materials, including slides, R-scripts, and homeworks will be posted there.
- Lecture videos will be available through Canvas.
- Follow along with in-class demos or you will get swamped.

What do you know already?

- Have you taken an Intro to Statistics? A GLM class?
- Have you taken Intro to Networks?
- Have you used R before?
- For more than a year?