#### **Social and Information Networks**

**Tutorial #3: Social Influence** 

University of Toronto CSC303
Winter/Spring 2022
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Week 4: Jan 31- Feb 4 (2022)

#### Today's agenda

In lecture we've covered Chapter 4 of the textbook looking at Selection and Social Influence.

#### Today:

- Questions from Lecture
- Accessing NetLogo remotely
- Examples of Selection vs. Social Influence
- Quercus Quiz

# **Questions?**



## **Accessing NetLogo remotely**

Instructions on various ways to remotely access a graphical interface for the teach.cs labs can be found at the CS teaching labs website: https://www.teach.cs.toronto.edu//using\_cdf.html

You will need this for Assignment 1 to run NetLogo.

#### On Linux:

>>> ssh -X USERNAME@teach.cs.toronto.edu

>>> netlogo

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Demo time!

# **Homophily**

Can we think of examples where we might see homophily? How could influence or selection drive homophily in these examples?

Homophily has been observed in both obesity and divorce; this was studied by (Christakis et al.) and (McDermott et al.) respectively. The observed homophily could be due to Influence, Selection, or Confounding variables (e.g. sharing a local economic downturn). What do we think?

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They used a longitudinal dataset from the Framingham Heart Study. They used tracking forms where the participants listed contact friends & family to create the social network. Consequently these friendships are directed; can we use this?

Both studies were looking for influence.

They checked for confounding variables by seeing if the direction of relationships had an impact – if the effect is solely due to confounding variables then direction should be irrelevant.

To help control for selection they conditioned on the lagged dependent variable (i.e. BMI at previous examination or marital status at previous examination respectively)

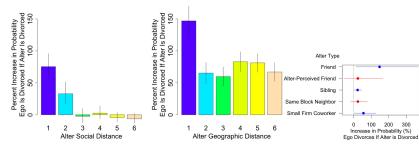
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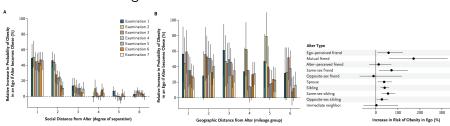


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# **Quercus Quiz**