## The Domino Effect: TikTok Social Bots Echo Chambers

## **Project Overview**

An echo chamber is a phenomenon whereby a user only encounters information that reflect their own.

#### Phenomena of Interest

- Bot-to-bot influence on formation rate and size of TikTok echo chambers
- Likelihood of cross-echo chamber interaction

## **Simulation Analogies**

- Virus on a Network agents as nodes and interactions as edges
- Schelling Segregation agents'
  likelihood to interact with similar agents

## **Simulation Components**

#### **Entities**

- Human Agents
- Bot Agents
- Clusters of agents

#### Affordances, aka interactions

- Engage: view, like, comment, share, follow
- Disengage: dislike, unfollow

## **Algorithm**

Mimic TikTok's recommendation algorithm with a simpler model:

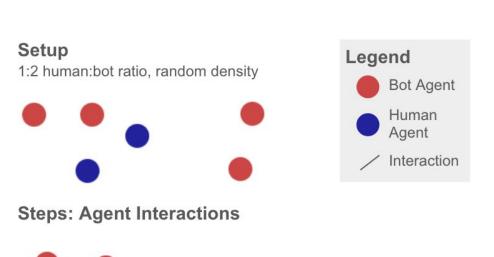
Agents (dis)engage with one another until distinct clusters are formed



# **Expected Simulation Output**

#### Variables to be measured

- Ratio of clusters to agents
- Size of distinct clusters
- Number of steps to create clusters
- Number of cross-cluster interactions



<u>View</u>

Simulation

