



Influentials

A minority of individuals that are able to spread ideas to an exceptional number of people.

Brought to you by Michael and Priscilla.

Influential Hypothesis:

A minority of individuals called influentials exist and are able to spread ideas/innovations to an exceptional number of people

Motivation:

*New ideas and innovations appear
everyday.*

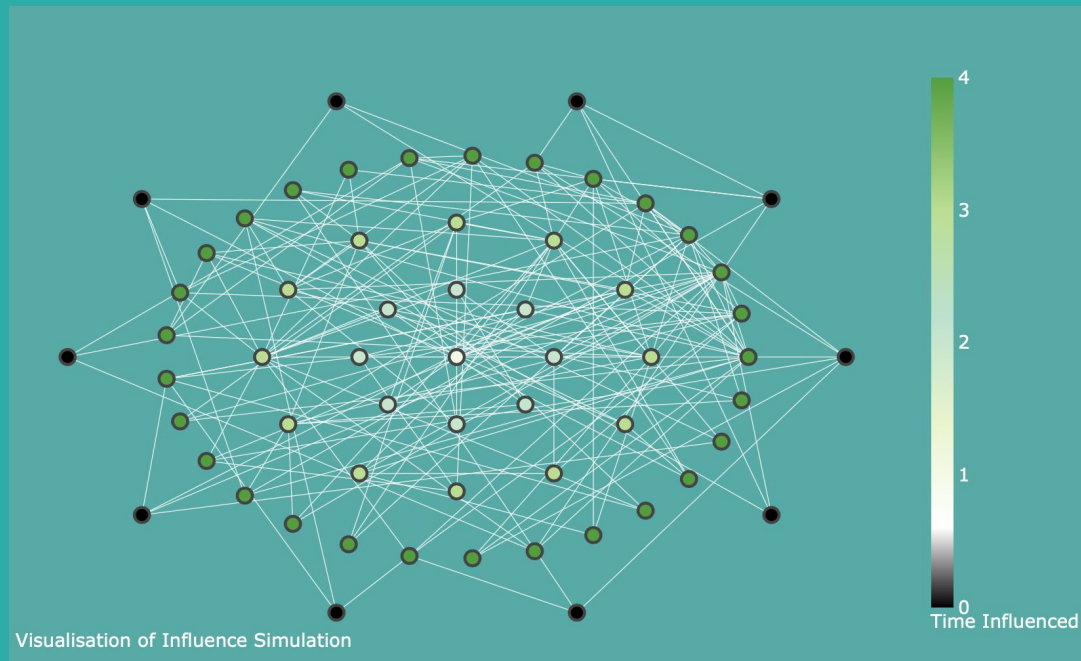
*What mediums exist to spread them and
how can we **effectively** utilise them?*



To *investigate*:

- how significant the roles of influentials are in the spread of innovations and ideas
- what characteristics of influentials and conditions on the population are necessary in catalysing this spread

Method



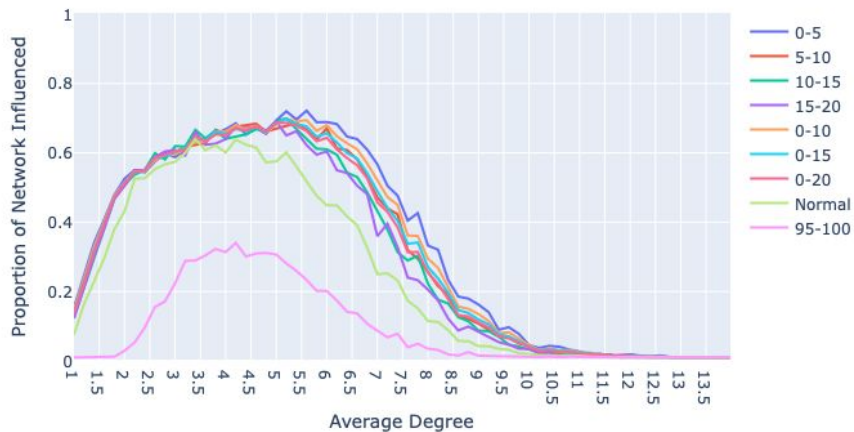
- Threshold Model
- Poisson/Scale-Free Networks
- Aggregated nodes by degree
 - 0-5
 - 5-10
 - 10-15
 - 15-20
 - Normal
 - 95-100

\\Results

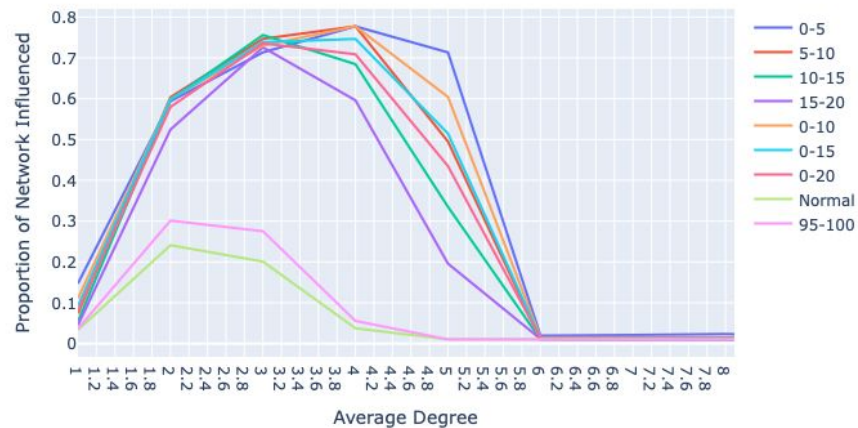
**The influence
distribution
matters.**

Result

Poisson RG



Scale-Free Network

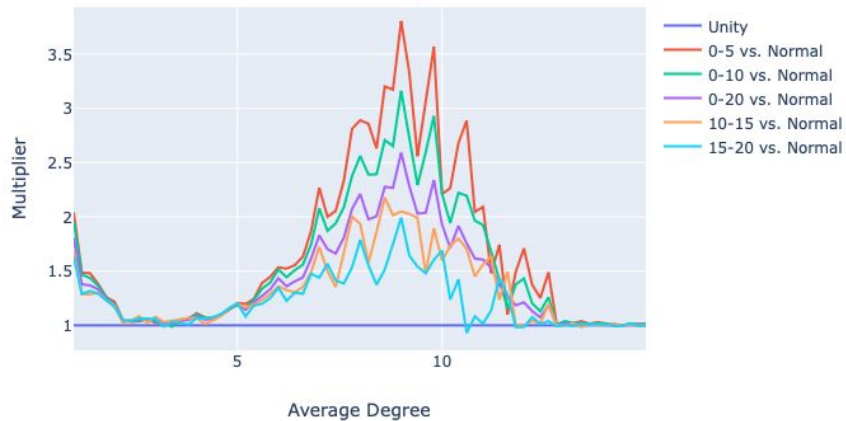


**Influentials
matter in
scale-free
communities.**

Result

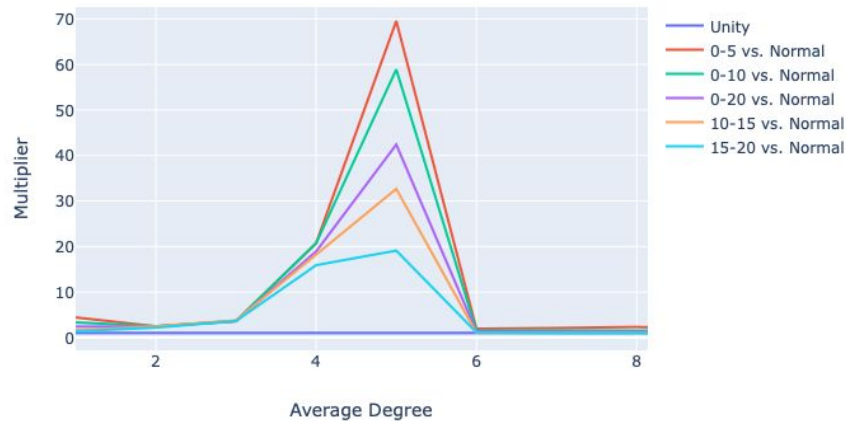
Poisson RG

Relative Impact of Influence Across Node Degrees



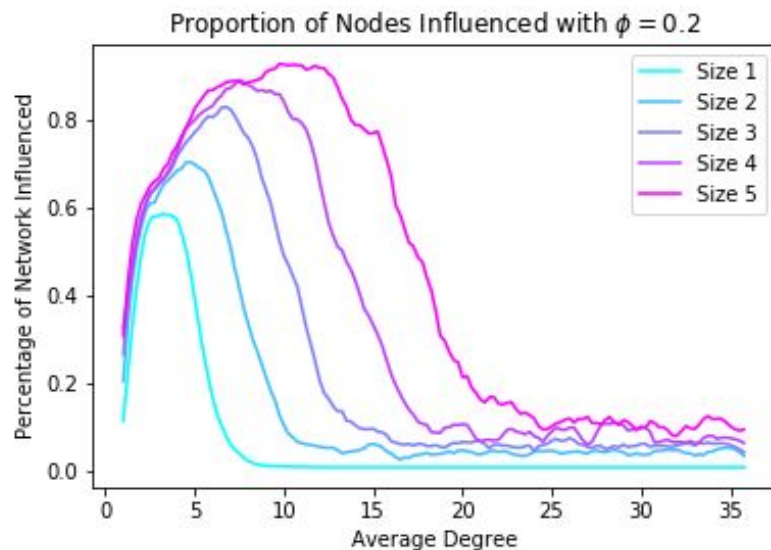
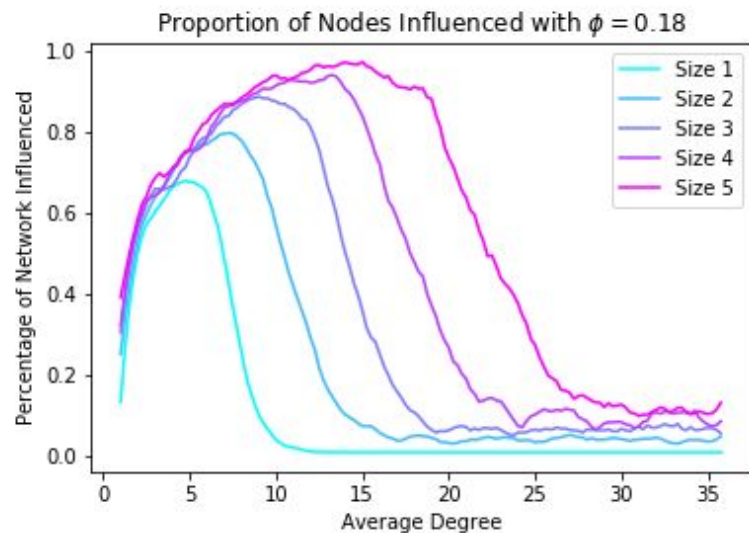
Scale-Free Network

Relative Impact of Influence Across Node Degrees



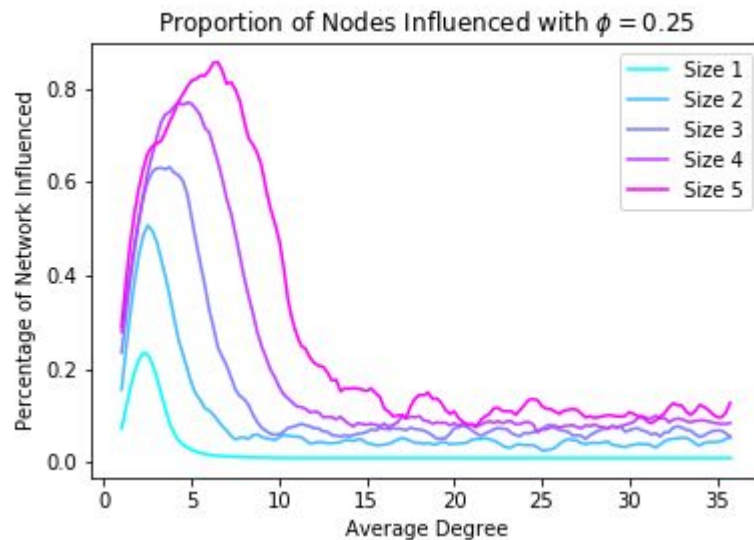
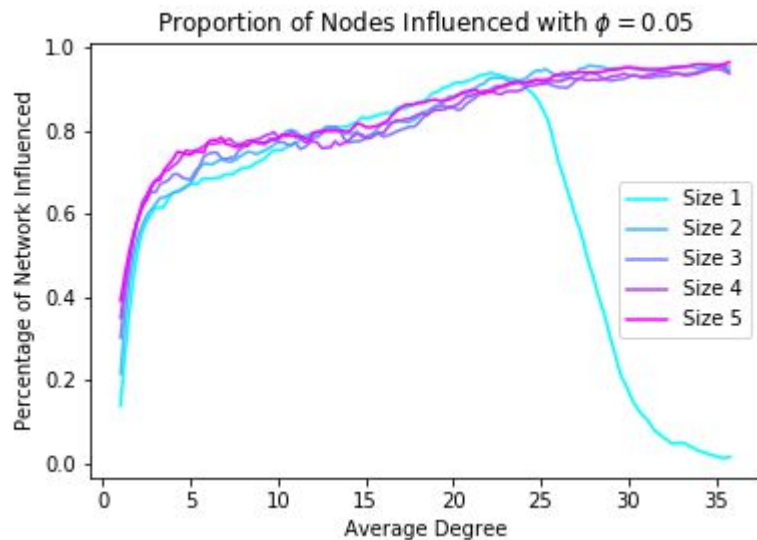
**Naturally, the
number of initial
influentials
matter**

Result



**The threshold
matters.**

Result



In Summary:

- The importance of influentials is dependent on the degree distribution within the population of interest.
- The extent of the importance of the number of influentials is dependent on the threshold