Maintaining a positive relationship

Clement Lee
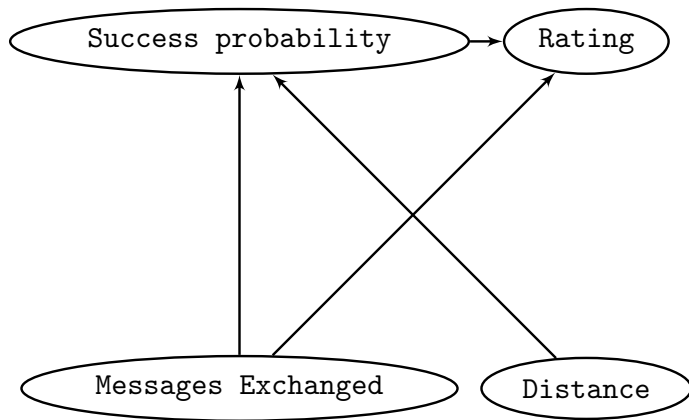
2023-10-20 (Fri)

Newcastle University

Online platform

- https://www.ilovefreegle.org
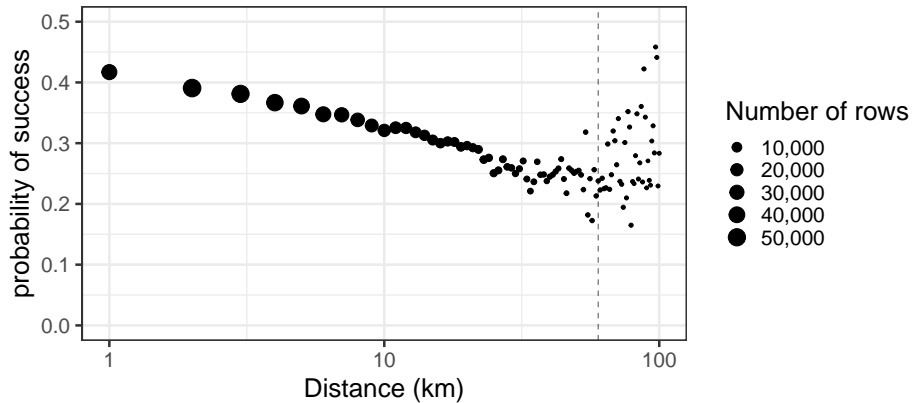- Online dating for stuff
- Like eBay or Gumtree
  - no money involved
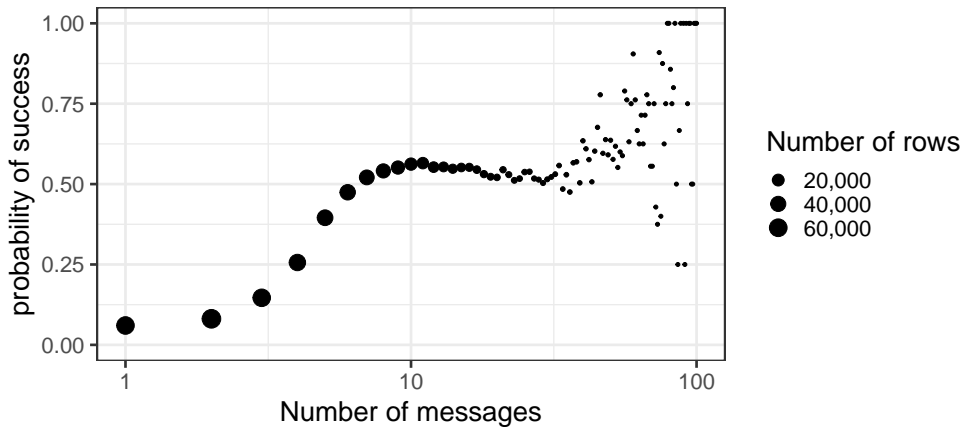- Or donating stuff to charity shop
  - more targeted

What makes an exchange more likely to happen?

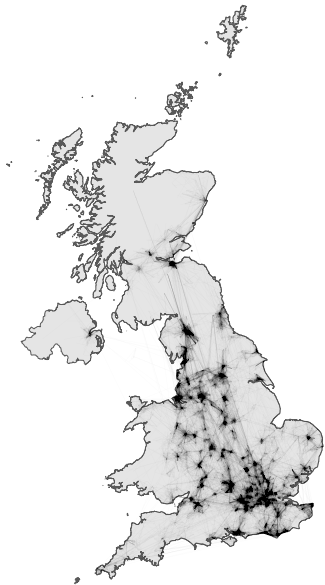# Success probability vs distance

Success probability vs # messages

Final results

▶ Modified logistic regression

$$\log \frac{p_i}{0.566 - p_i} = -3.14 + 0.885 \times \text{Number of messages}_i - 0.0653 \times \log(\text{Distance}_i)$$
$$- 0.0562 \times \text{Number of messages}_i \times \log(\text{Distance}_i)$$

▶ Nudging users to talk more $\Rightarrow$ successful exchanges more likely

After wrap-up

- Continuing collaboration
  - to fully explore the spatial data
  - to empower others in the charity with the data
- Co-supervising MSc & PhD students
- So far
  - an interactive version of the map
  - overlaying the network on the established communities
- Next
  - deployment of interactive visualisation app

Newcastle University

Tips

- Understand what they want
  - They know what needs to be answered
  - They know their data well

- Strike the balance
  - Intuitive explanations; hide the maths / technical details
  - Apply concrete models, but in the background
  - ~~high level advice~~

- Meet in person
  - The human interaction