Done this week

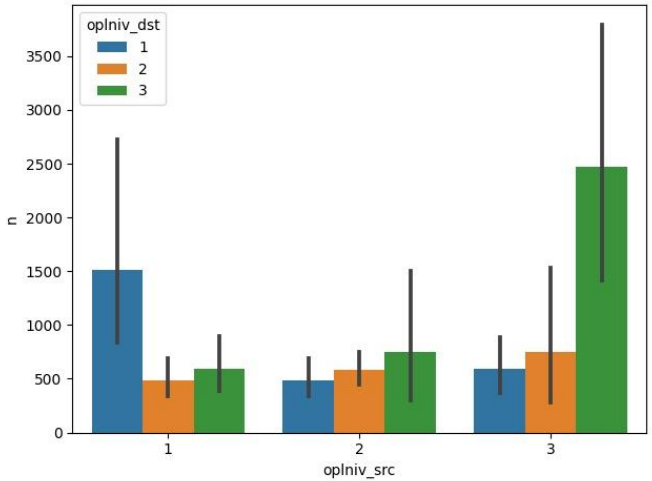
- More in depth Data investigation

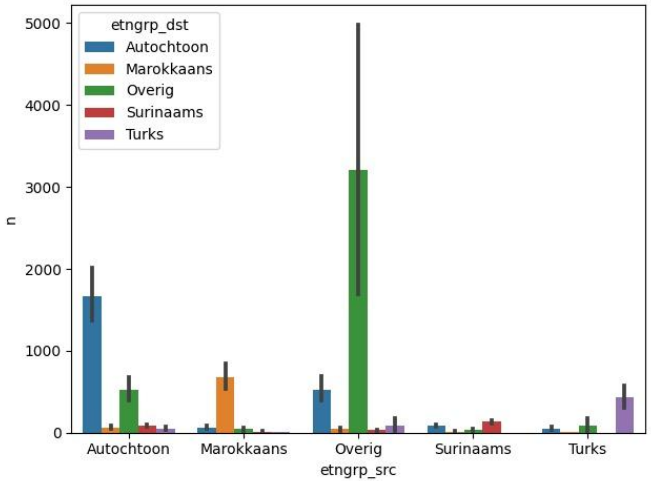
- Looked at the diversity of links per main group

- Read some literature on stochastic oriented actor model
  - Introduction to stochastic actor-based models for network dynamics (Snijders, van de Bunt, Steglichc, 2010)
  - Slides from a introduction to SAOM (Duke network analysis centre)

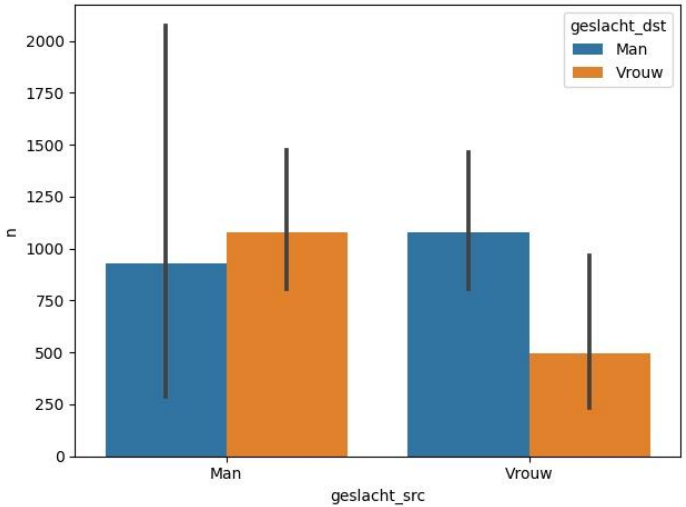
Household

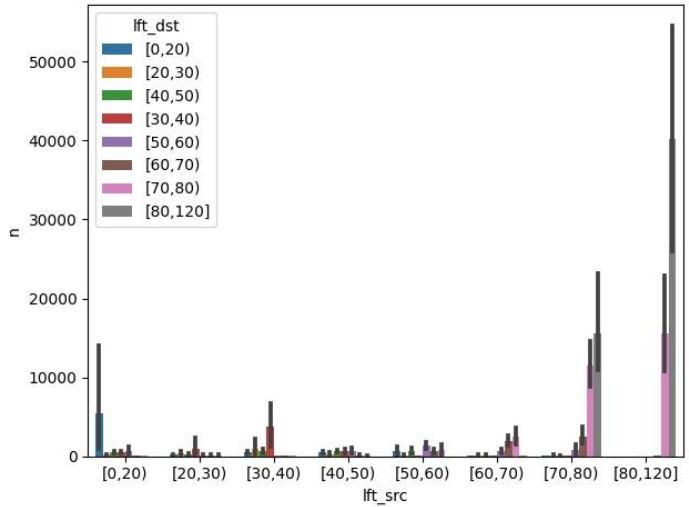
Normalize and statistical test look at education level



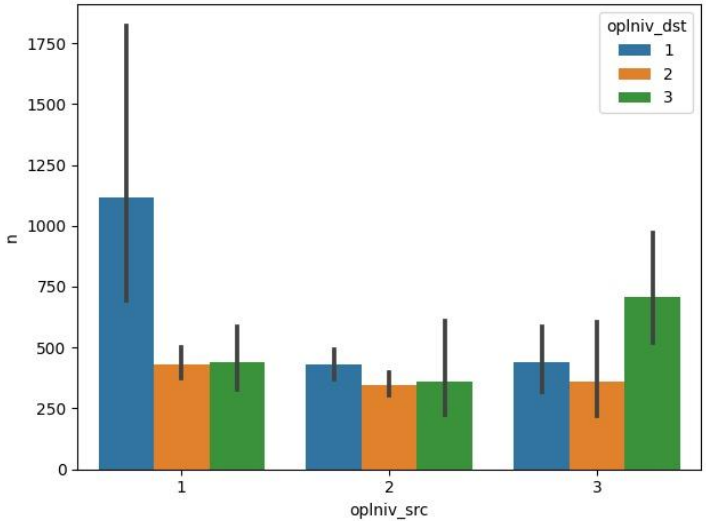


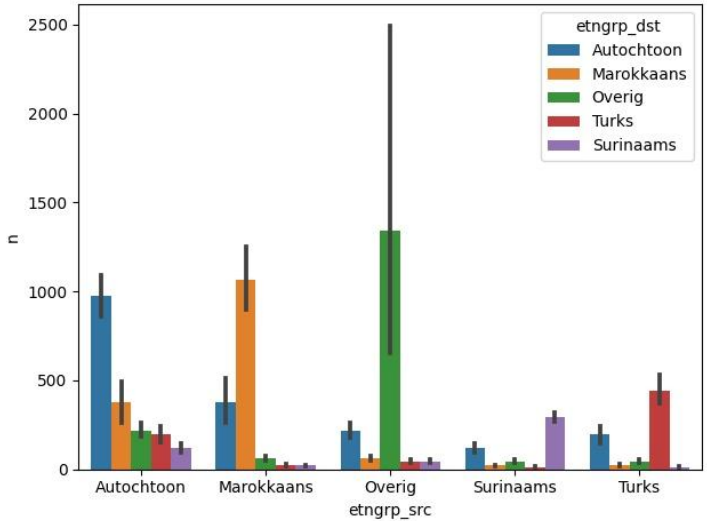
Household


geslacht_dst
Man
Vrouw
2000
1750
1500
1250
1000
750
500
250
0
n
Man
Vrouw
geslacht_src

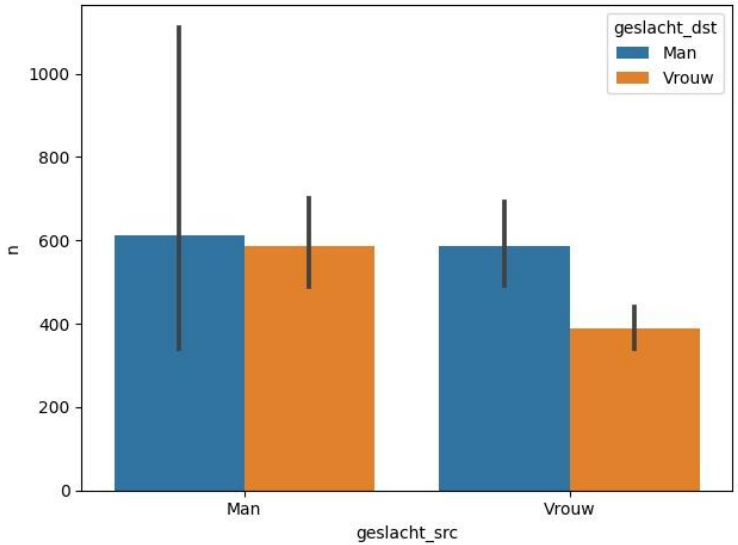

lft_dst
[0,20)
[20,30)
[40,50)
[30,40)
[50,60)
[60,70)
[70,80)
[80,120]
50000
40000
30000
20000
10000
0
n
[0,20)
[20,30)
[30,40)
[40,50)
[50,60)
[60,70)
[70,80)
[80,120]
lft_src

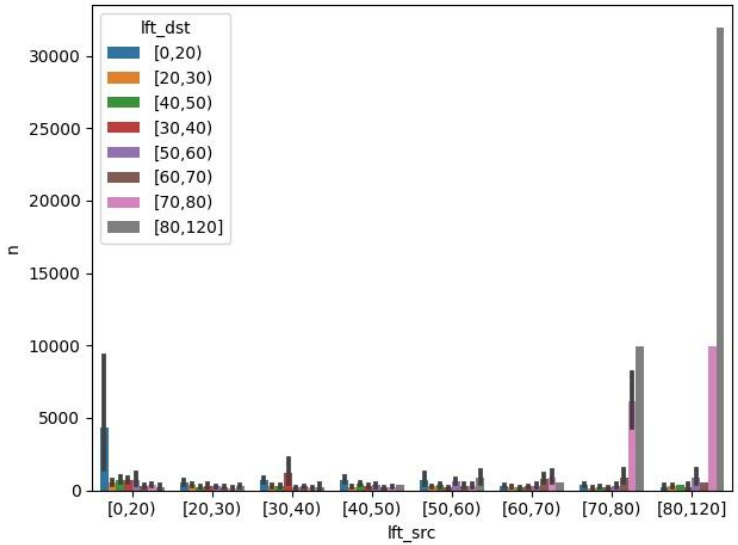
Family


oplniv_dst
1
2
3
n
1750
1500
1250
1000
750
500
250
0
1
2
3
oplniv_src

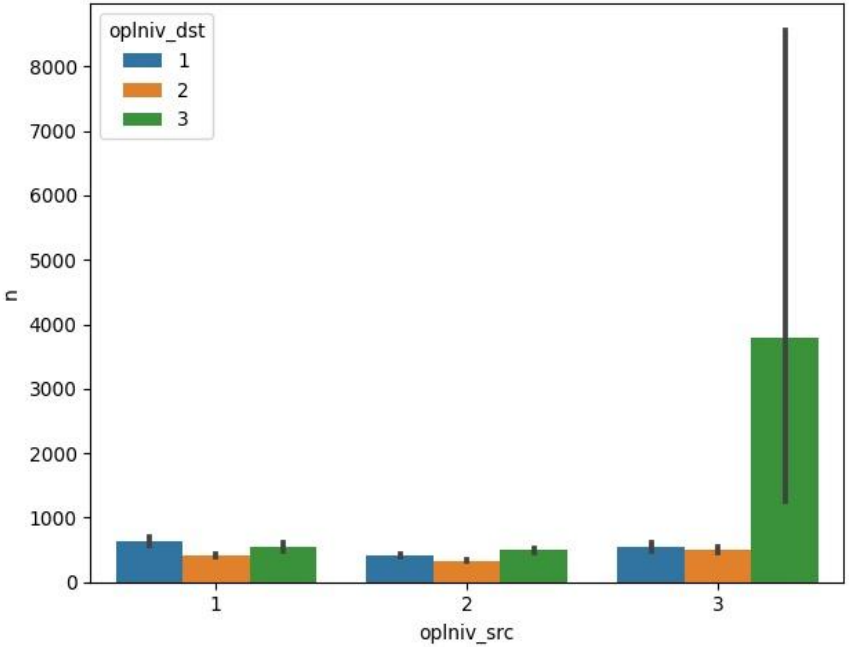

etngrp_dst
Autochtoon
Marokkaans
Overig
Turks
Surinaams
n
2500
2000
1500
1000
500
0
Autochtoon
Marokkaans
Overig
Surinaams
Turks
etngrp_src

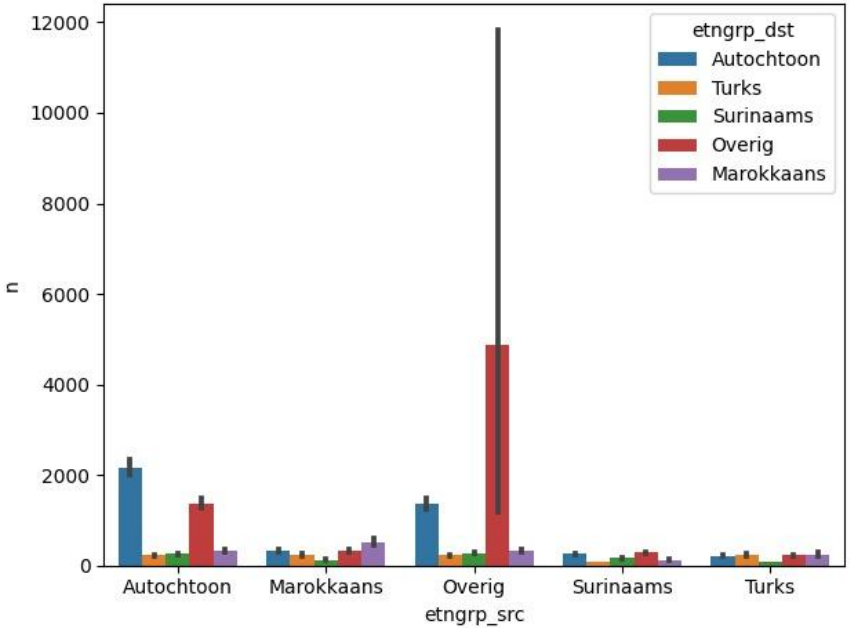
Family


geslacht_dst
Man
Vrouw
1000
800
600
400
200
0
n
Man
Vrouw
geslacht_src

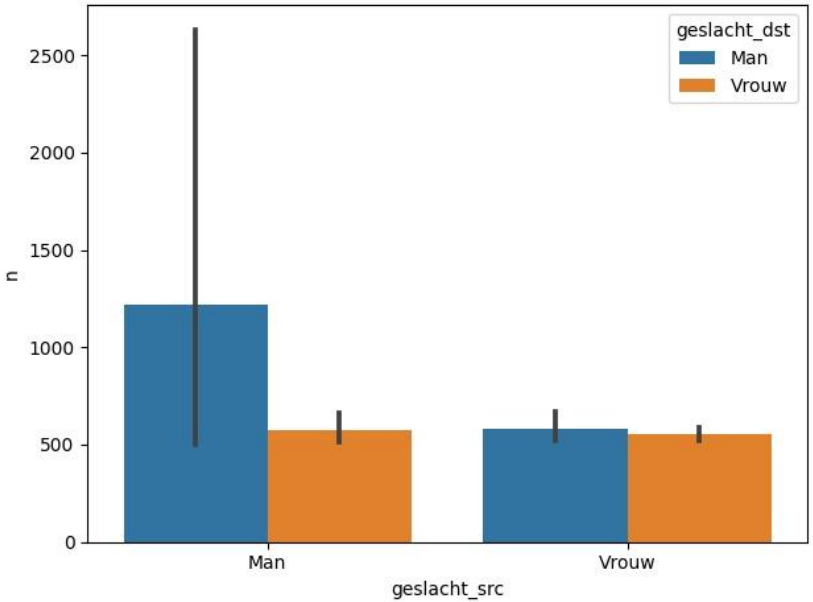

lft_dst
[0,20)
[20,30)
[40,50)
[30,40)
[50,60)
[60,70)
[70,80)
[80,120]
30000
25000
20000
15000
10000
5000
0
n
[0,20)
[20,30)
[30,40)
[40,50)
[50,60)
[60,70)
[70,80)
[80,120]
lft_src

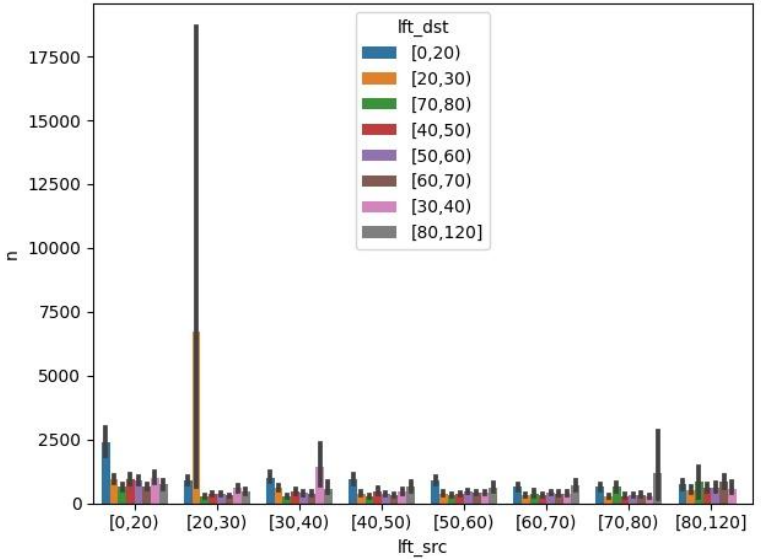
Neighbours


oplniv_dst
1
2
3
8000
7000
6000
5000
4000
3000
2000
1000
0
n
1
2
3
oplniv_src


etngrp_dst
Autochtoon
Turks
Surinaams
Overig
Marokkaans
12000
10000
8000
6000
4000
2000
0
n
Autochtoon
Marokkaans
Overig
Surinaams
Turks
etngrp_src

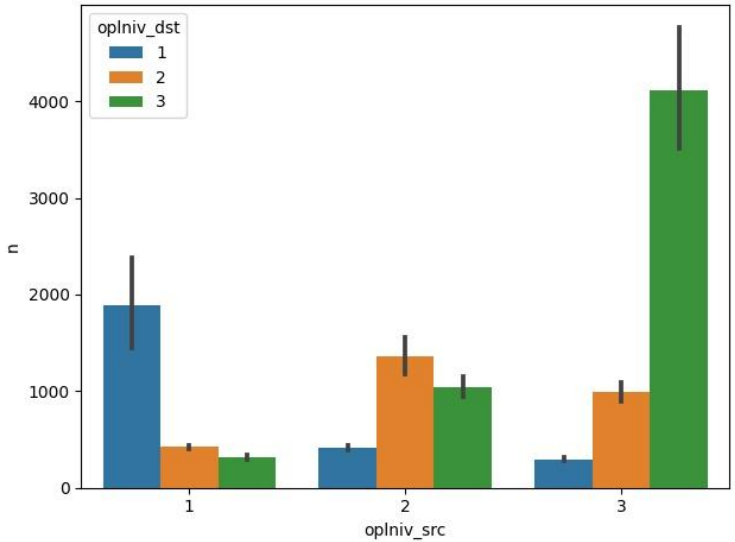
Neighbours

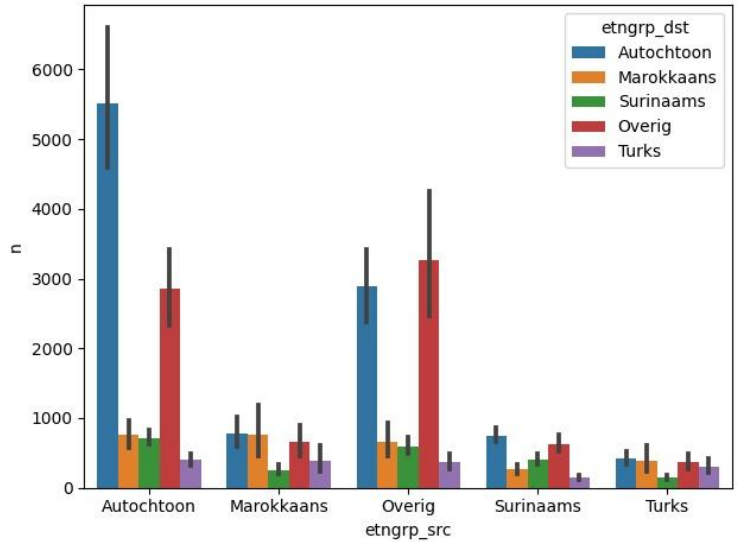

geslacht_dst
Man
Vrouw
2500
2000
1500
1000
500
0
n
Man
Vrouw
geslacht_src


lft_dst
[0,20)
[20,30)
[70,80)
[40,50)
[50,60)
[60,70)
[30,40)
[80,120]
17500
15000
12500
10000
7500
5000
2500
0
n
[0,20)
[20,30)
[30,40)
[40,50)
[50,60)
[60,70)
[70,80)
[80,120]
lft_src

Work/school

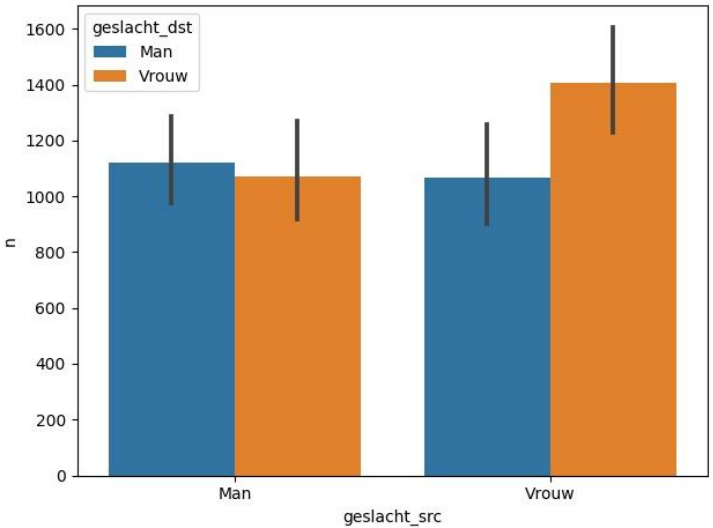
Heatmap visualisation

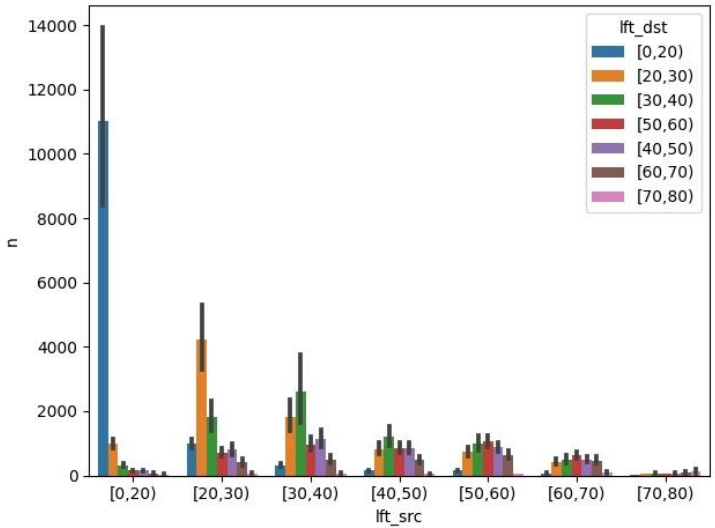




Work/school

entropy == > diversity





Stochastic oriented actor model

- Longitudinal study
- Initial network
- Multiple panel waves
- Make micro steps based on objective function
- Connections appear/disappear once at a time

- **Understand the measures**

Planning to do

- Look more at stochastic actor oriented model (measurement)
- Think of possible implementation (Tom Snijder) ⇒
- Look at connections over time (by looking at the connections of each age category)
- City of Amsterdam distributions age etc.
- Measures of homophily
- R py2.