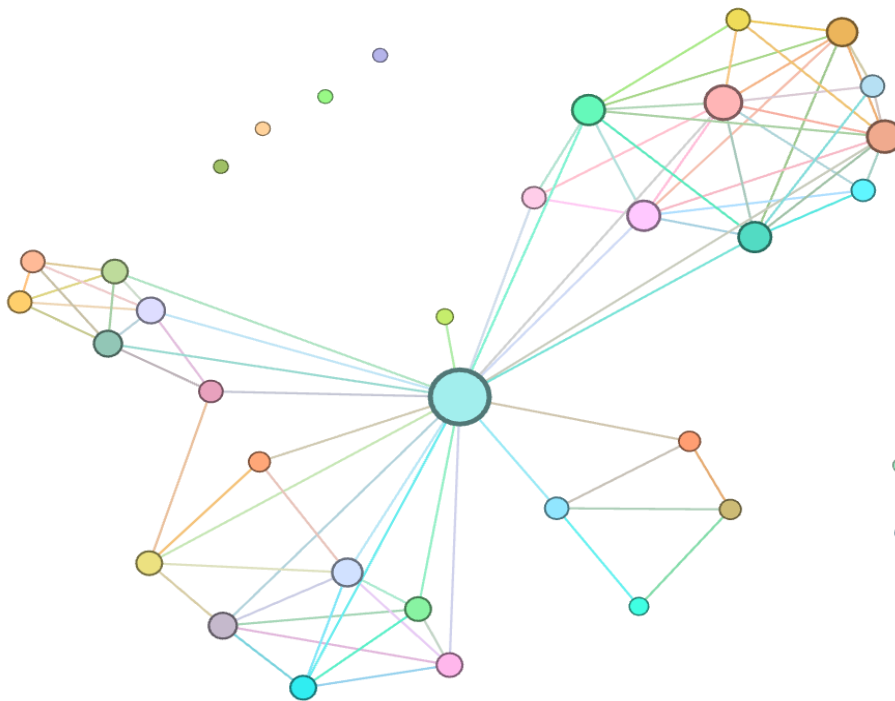
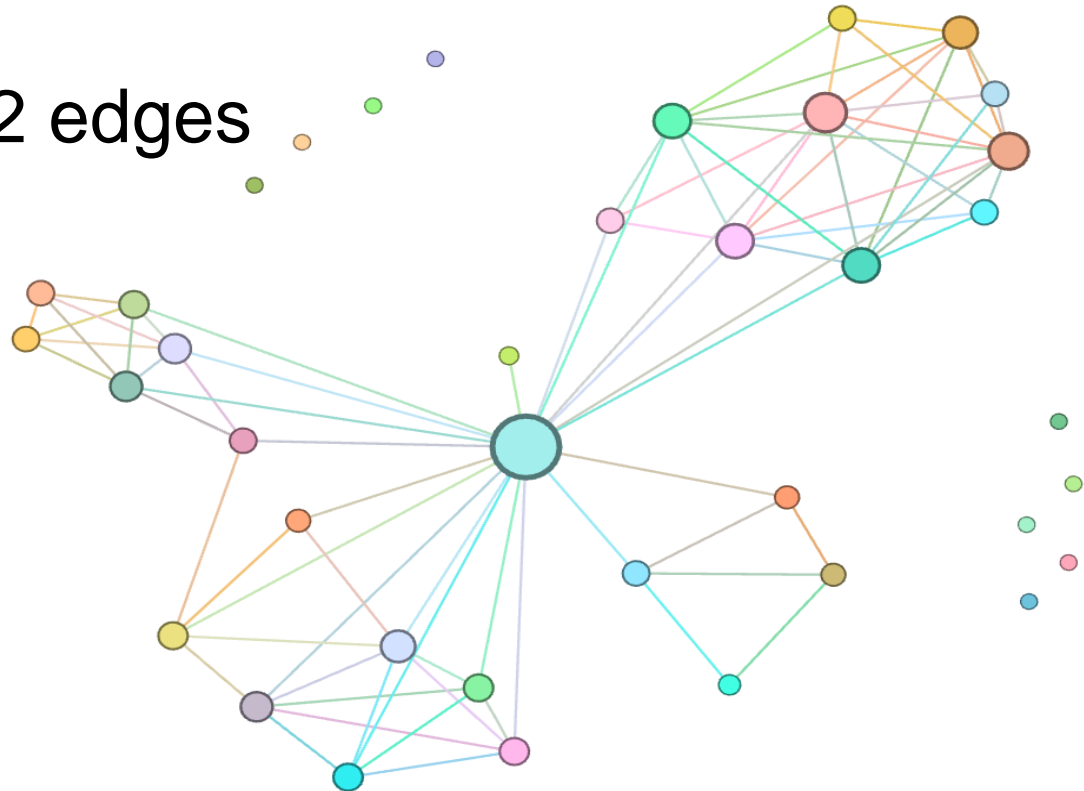

Social Network Analysis



Daylidyonok Ilya

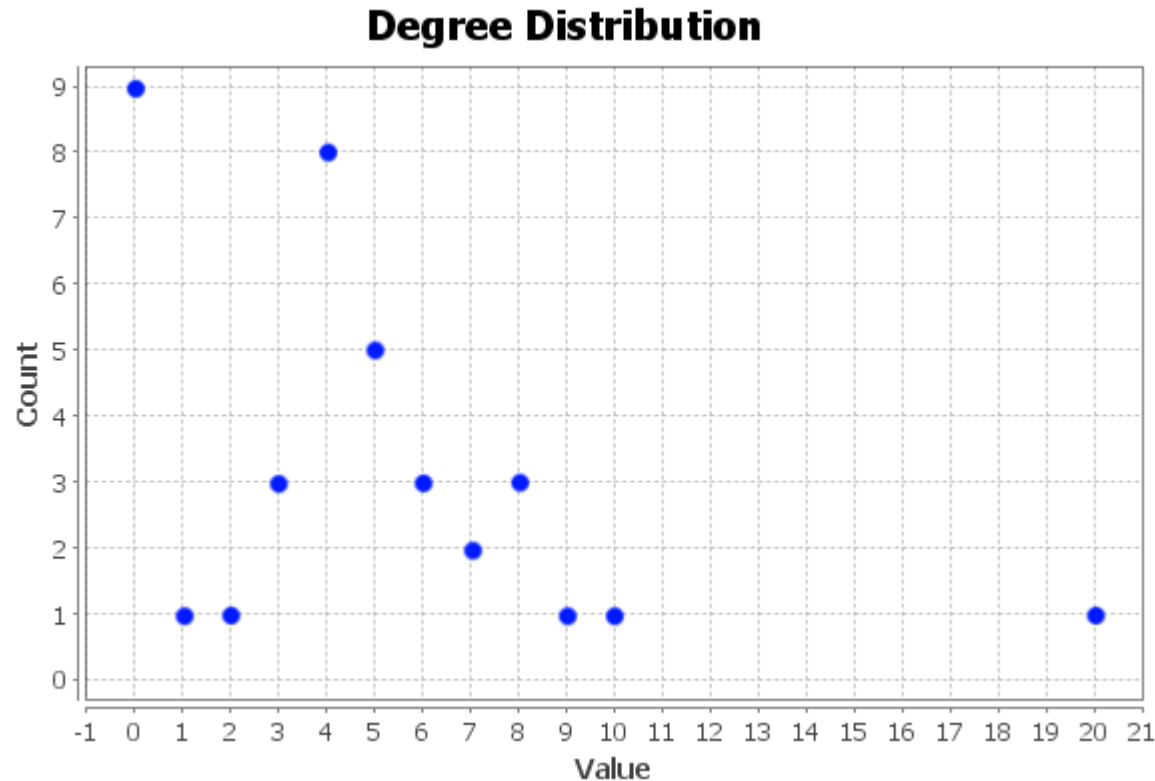
Network

- Friends from VK, downloaded via VK API
- Added additional attributes by hand: sex, university
- 38 nodes, 82 edges

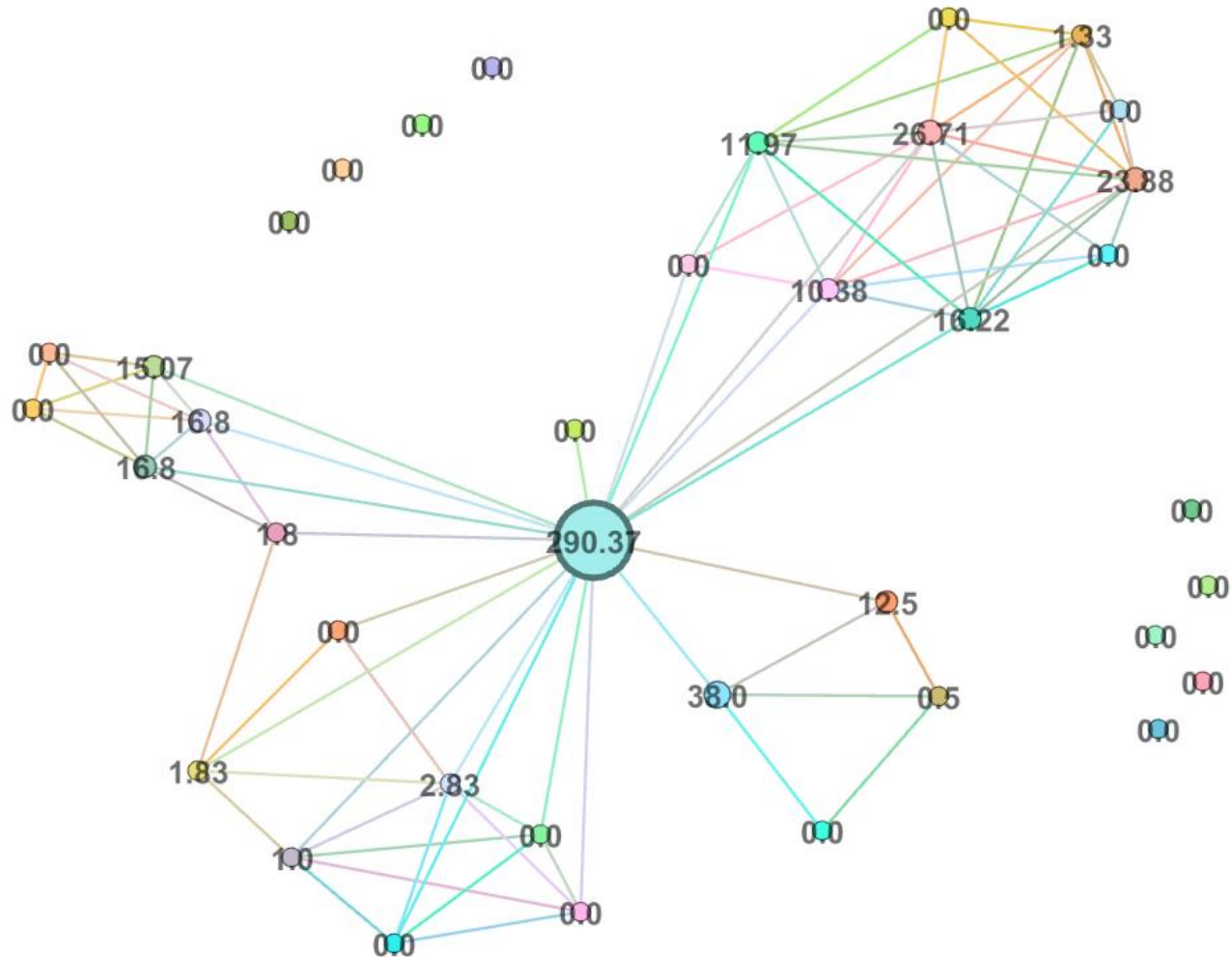


Network statistics

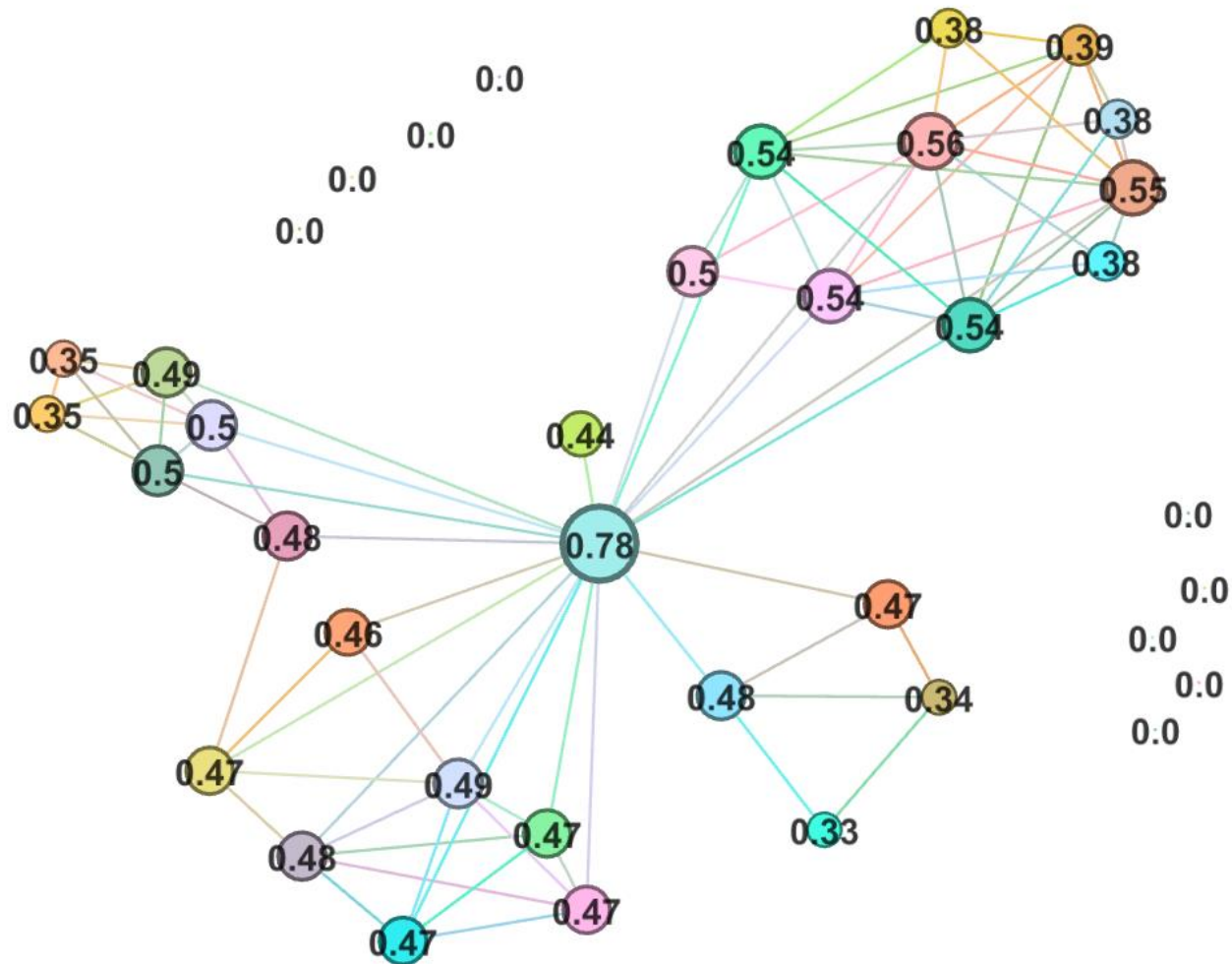
- Number of triangles = 100
- Average clustering coefficient = 0.786



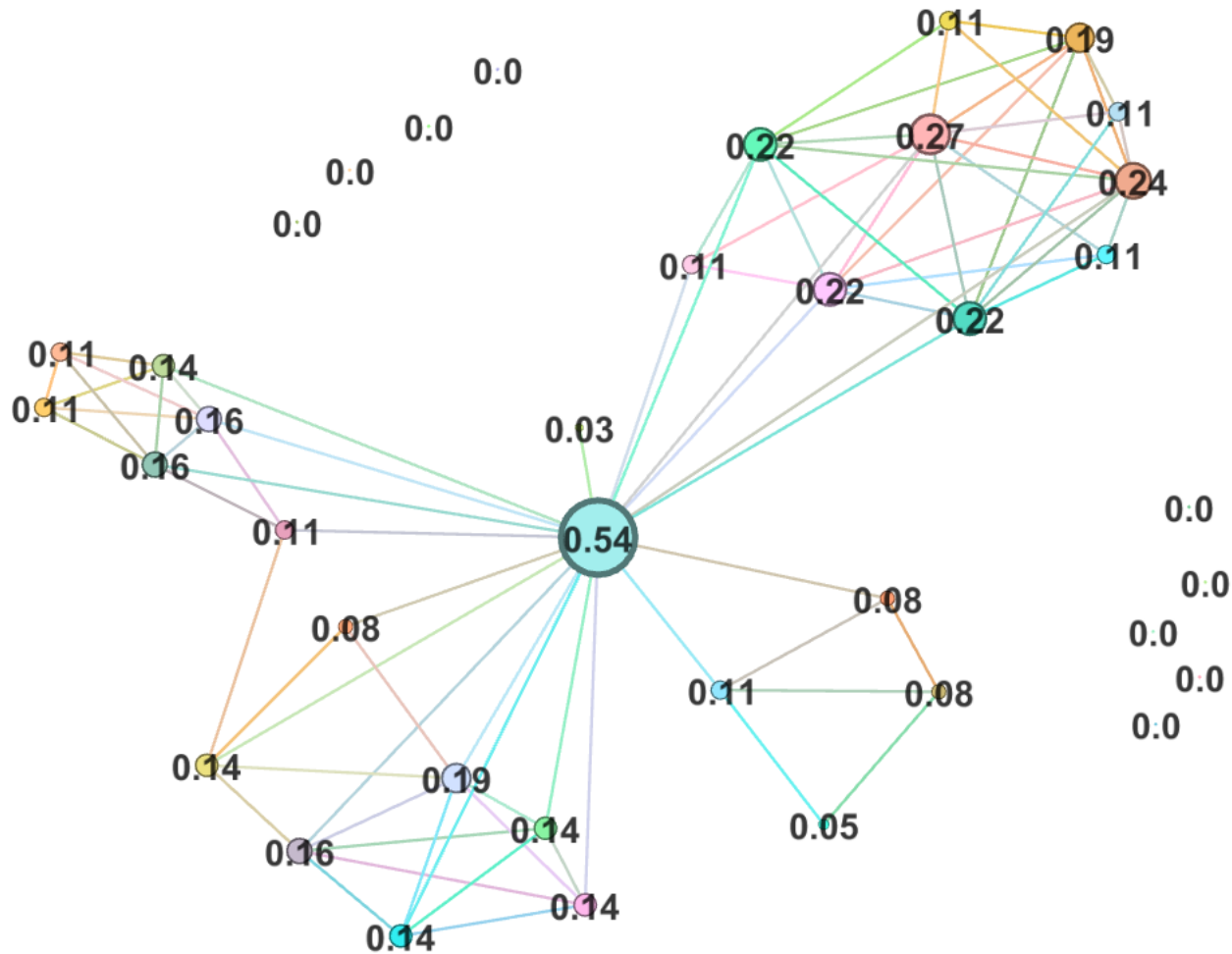
Betweenness centrality



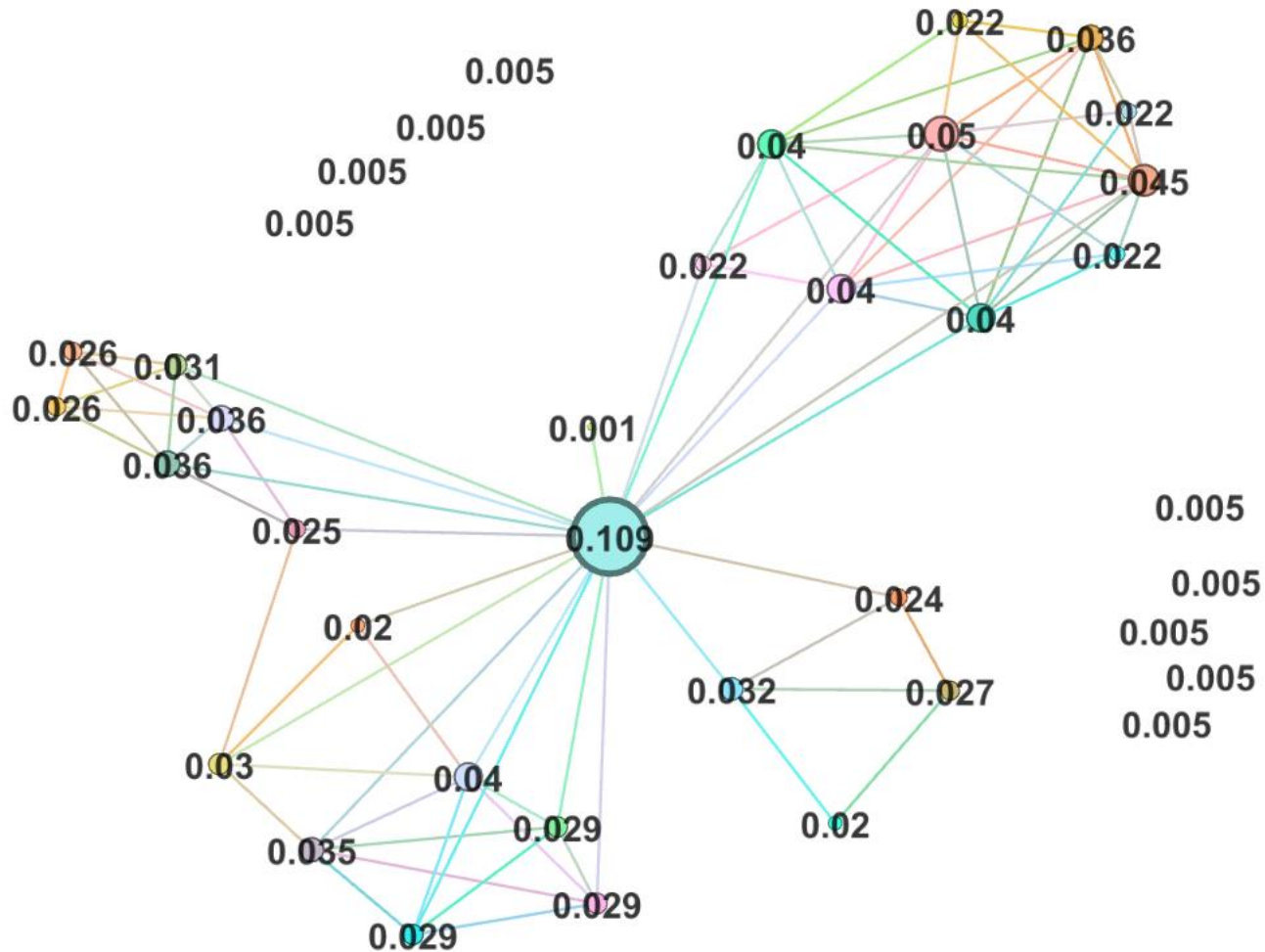
Closeness centrality



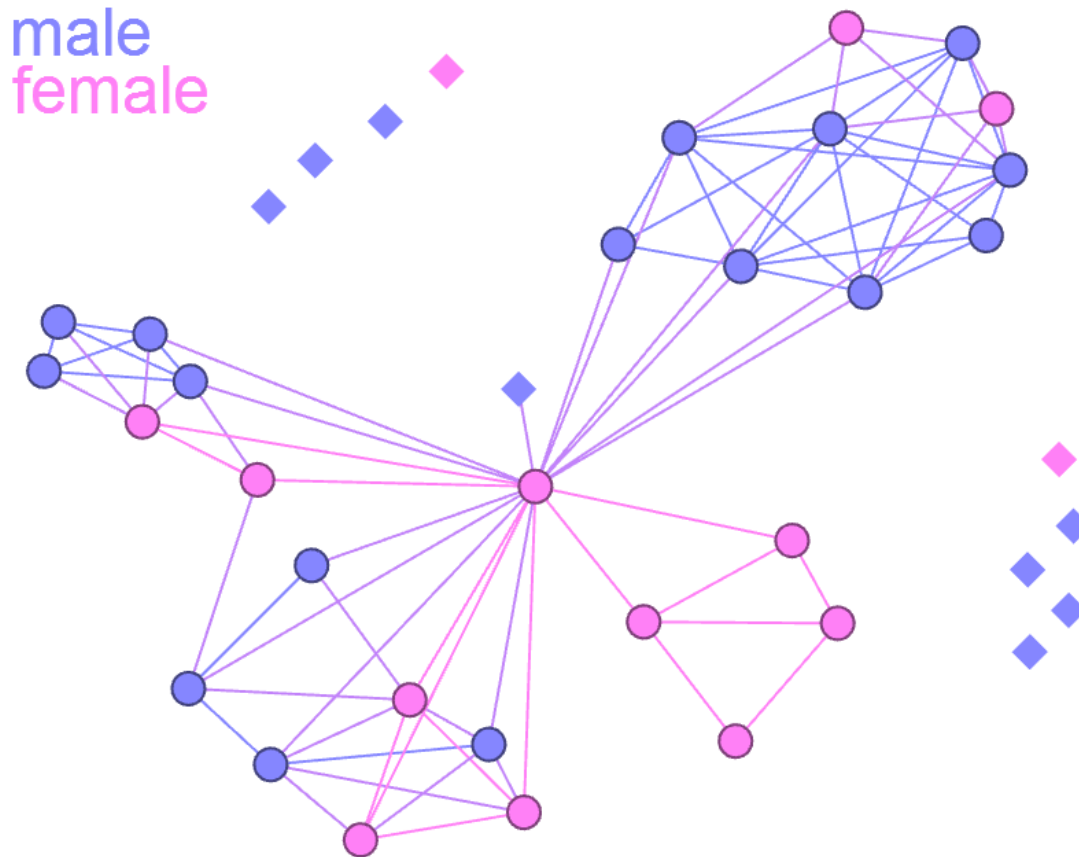
Degree centrality



Page-Rank

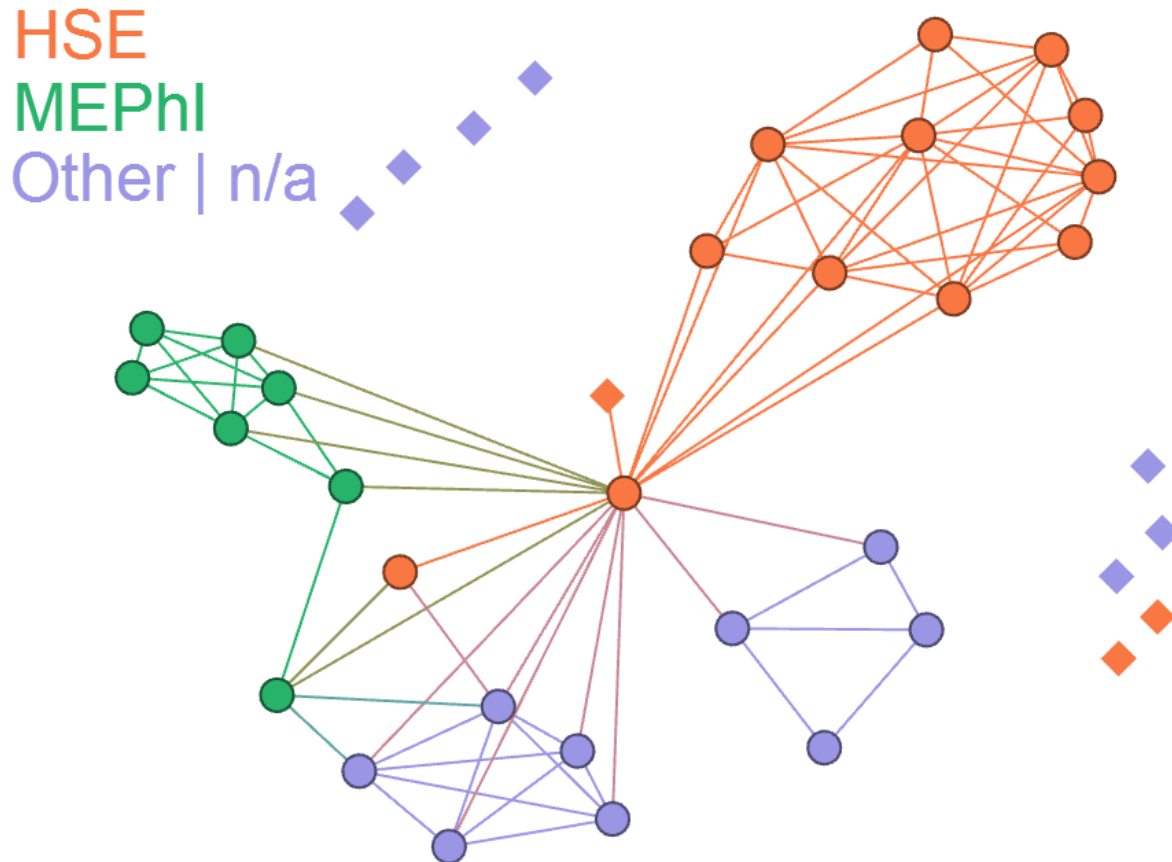


Assortativity by sex



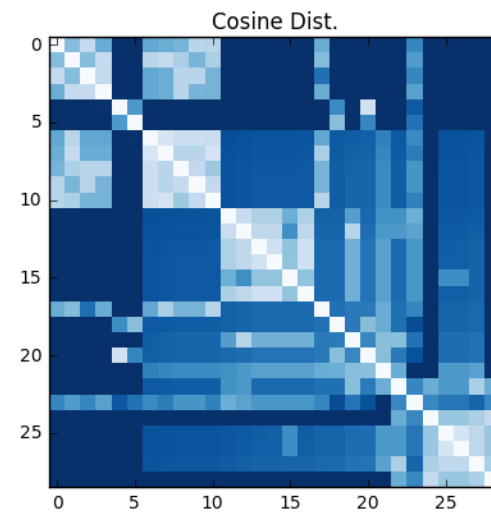
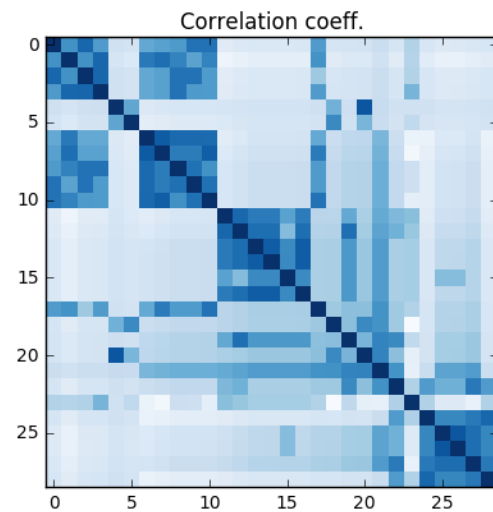
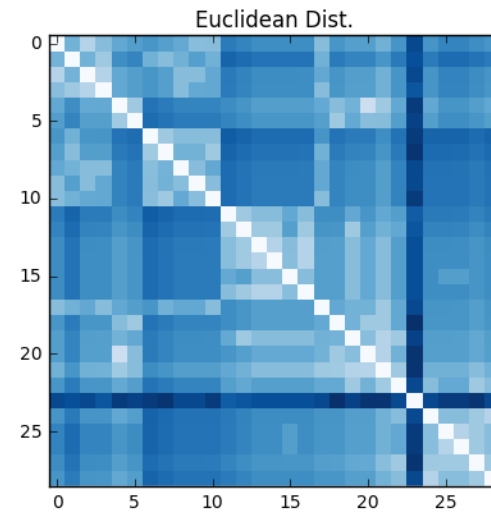
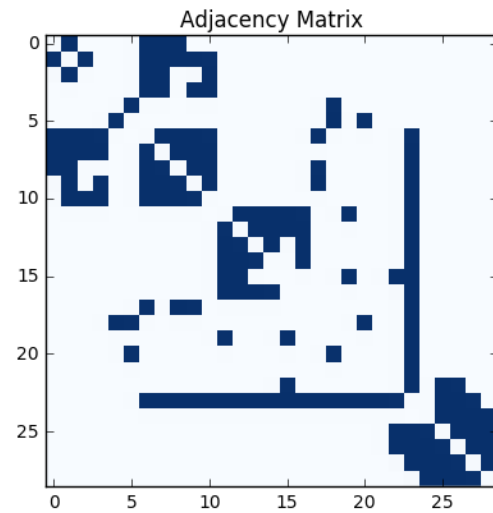
Assortativity by sex = 0.12

Assortativity by university



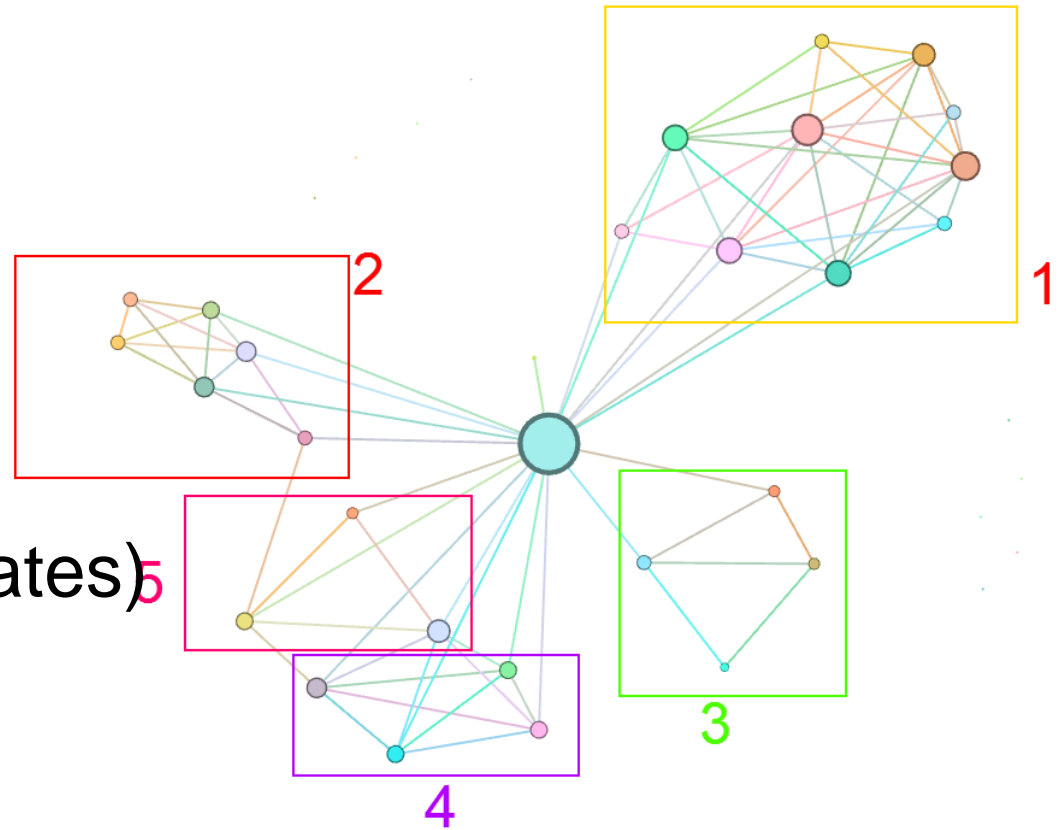
Assortativity by university = 0.67

Similarity metrics

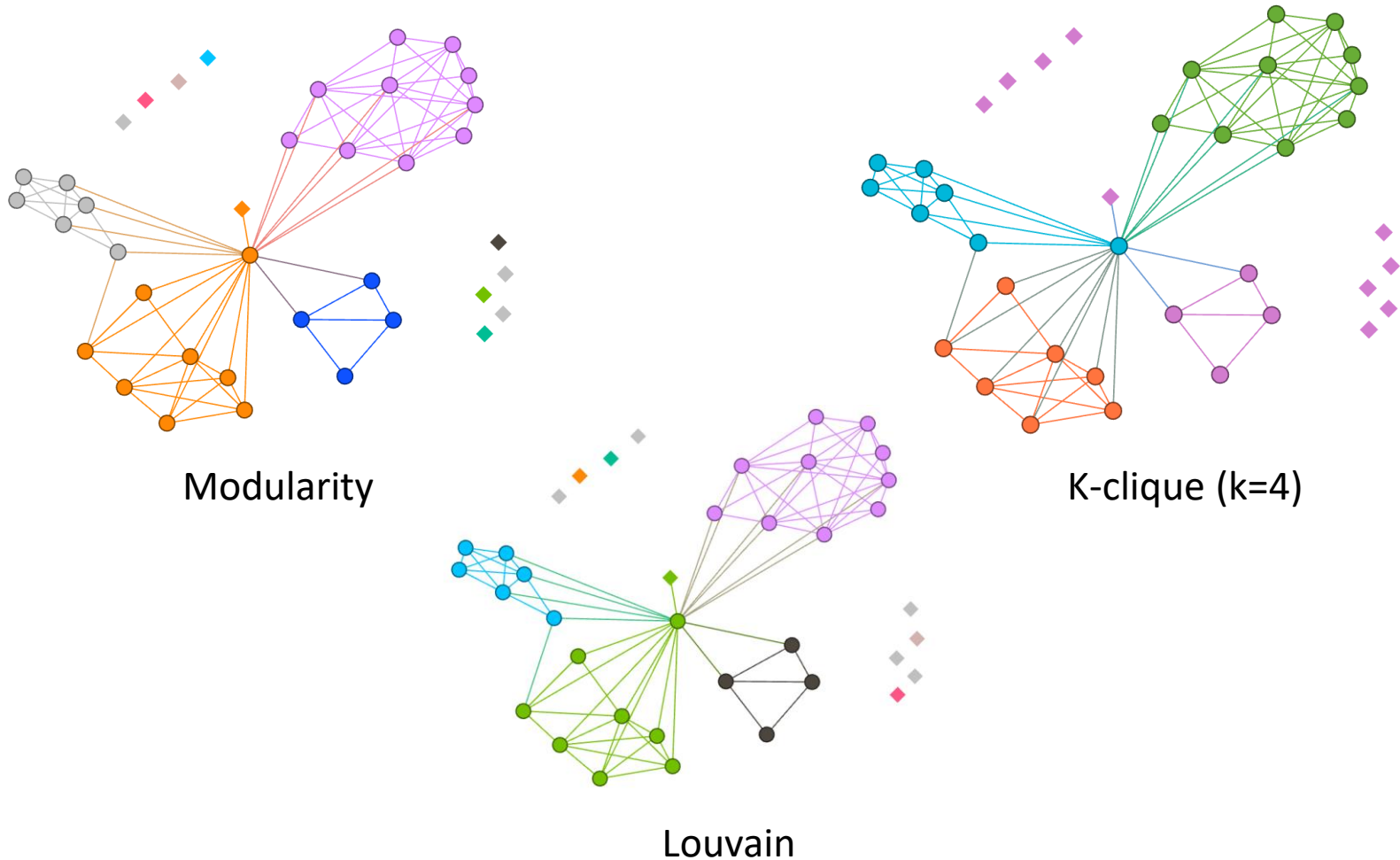


Manually selected communities

1. HSE
2. MEPhI
3. Family
4. Partner's family
5. Partner's friends
(Former classmates)



Community detection algorithms



Thank you for
your attention!
