

Introduction to social network analysis (SNA) in R for the Social Scientist

13-14 February 2019

Course Structure

Day 1

- Morning Session (9:30 - 1pm)
 - Introductions
 - Social networks and their measurement
 - R for SNA
- Afternoon Session (2pm - 6pm)
 - Network Visualisation
 - Descriptive SNA
 - Subgroups analysis (Bottom-up approaches, Top-down approaches)
 - Network permutation tests, correlations

Day 2

- Morning Session (9:30 - 1pm)
 - Network permutation tests, correlations, and MRQAP regression
- Afternoon Session (2pm - 5:00pm)
 - Exponential Random Graph Models (ERGM) for cross-sectional analysis

Course Handbook:

Borgatti, S., Everett, M., and Johnson, J.C. (2018). *Analyzing Social Networks*, 2nd Ed. Sage.

Preparatory Readings:

Smith, K.P., and Christakis, N.A. (2008). *Social Networks and Health*. Annual Review of Sociology, 34: 405-429. DOI: 10.1146/annurev.soc.34.040507.134601

Borgatti, S.P., Mehra, A., Brass, D.J., Labianca, G. (2008). *Network Analysis in the Social Sciences*. Science, 323(5916): 892-895. DOI: 10.1126/science.1165821

Phelps, C., Heidl, R., and Wadhwa, A. (2012). *Knowledge, Networks, and Knowledge Networks: A Review and Research Agenda*. Journal of Management, 38(4): 1115-1166. DOI: 10.1177/0149206311432640