



**UNIVERSITÀ
DI TRENTO**
Dipartimento di
Sociologia e Ricerca Sociale



HANS SCHADEE
Research Methods Center

Workshop **Social Network Analysis for Two-Mode Networks**

Instructor: Professor Martin Everett,

Director Cathie Marsh Institute, University of Manchester

Overview

This workshop offers a comprehensive overview of ways to deal with two-mode social network data. The course covers topics such as centrality, equivalence, core-periphery and bi-clique analysis for two-mode networks. It also deals with permutation techniques and two-mode community detection. The workshop will rely on the UCINET software package.

Location (in-person and online via zoom)

Sala professori (to be confirmed), I piano, Department of Sociology and Social Research (DSRS), Via Verdi 26, Trento

For online participation, the zoom link will be provided after registration.

Time and dates

Wednesday 22 June 14:00-17:00

Thursday 23 June 10:00-13:00 & 15:00-18:00

Friday 24 June 10:00-13:00

Practical information

Participants are expected to bring their own laptop and install UCINET before the start of the workshop: <https://sites.google.com/site/ucinetsoftware/download>

Note that UCINET runs on Windows. For Mac users you will need to use a Windows emulator such as Parallels or Oracle VM VirtualBox.



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Detailed overview of topics covered in workshop:

The workshop will cover the following topics:

Wednesday 14:00-17:00

- Introduction to two-mode and review of SNA
- Sources and examples of data.
- Review of UCINET/Netdraw and intro to xUCINET
- Two-mode Twitter data and vosonSML
- Visualization
- Projection

Thursday 10:00-13:00

- Bipartite representation
- Centrality two-mode normalization for degree, betweenness, closeness, eigenvector
- Bi-cliques

Thursday 15:00-18:00

- Dual projection
- Equivalence
- Centrality
- Core-periphery

Friday 10:00-13:00

- Two-mode community detection
- Valued data
- Permutation tests for two-mode

Background reading

Borgatti, S. P., & Everett, M. G. (1997). Network analysis of 2-mode data. *Social Networks* 19 (3), 243-269.

Everett, M. G., & Borgatti, S. P. (2013). The dual-projection approach for two-mode networks. *Social Networks* 35 (2), 204-210.

Agneessens, F., & Everett, M. G. (2013). Introduction to the special issue on advances in two-mode social networks. *Social Networks* 35 (2), 145-147.

Borgatti, S. P., Everett, M. G., & Johnson, J. C. (2018). *Analyzing Social Networks*. Sage.

Borgatti, S. P., Everett, M. G., Johnson, J. C., Agneessens, F. (2022). *Analyzing Social Networks Using R*. Sage.