| Veranstalter/in: | Dr. Eva Maria Luef |
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| Modul: | **Networks in Cognitive Science and Linguistics**<br>(ENG-4, ENG-4a, ENG-10, ENG-11, AA7, AA9, LAA8, LAA11, IAA20, IAA23, IAA24, IAA25, ENGAGE-M01a, ENGAGE-M02) |
| Art der Veranstaltung: | Seminar II |
| Veranstaltungsnummer: | 53-517 |
| Zeit: | 2st. Mo 16-18 |
| Raum: | Ü35 – 01016 |
| Beginn: | 03.04.23 |

Course Description:

In recent years, interest in modeling and analyzing psychological phenomena, such as language and lexical memory, with the tools of network science has been on the rise and a considerable body of research in this area has been accumulated. Network science was developed to measure and represent statistical dependencies between connected entities and provides a powerful computational approach to quantify dyadic relationships. A network is made up of nodes, which represent the basic unit of the system and links, or edges, which signify the relations between them. Linguistic networks can be based on different concepts, for instance phonological word forms, meanings, or social partners involved in communication.

This class examines the relevance of network science for the study of language and cognition on various levels of analysis. We will review efforts to construct different types of linguistic networks, characterize properties of those networks, and apply statistical analyses to elucidate the structure and complex relationships of entities within the networks.

Class meetings will consist of lectures, critical discussions, and practical work with network programs (e.g., R "igraph" and "qgraph", Gephi). A precondition for this class is a willingness to engage with network software and to learn how to use it. Students will work in small groups to design, conduct and present their own empirical studies. Assessment will be based on project work, an oral presentation (of the project), and a term paper (based on the project). Regular attendance and active participation are expected.

| Sprechstunden im Semester: | s. Sprechstundenliste |
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| Sprechstunden in der vorlesungsfreien Zeit: | s. Sprechstundenliste |