

Programme of the 5th SIENA workshop in Groningen, January 11-14, 2010.

Location of the workshop is the Academy Building of the University of Groningen, Broerstraat 5, in the city centre. We will convene in room A2.

The workshop starts Monday, January 11th with a walk-in welcome from 9:00, and with the first lecture and discussion at 9:30, and it will end Thursday, January 14, around 17:00. In-between, course days will consist of a morning session (9:30-12:30) and an afternoon session (14:00-17:00), each session will consist of a plenary introduction to the session's topic, a demonstration of how to address this topic with the software, and a practical exercise for the participants to work on. The schedule is given below.

On Tuesday evening (18:30), there will be a joint dinner at *Humphrey's Restaurant* (at own expenses). For making reservations, we will ask you on Monday whether you plan to attend or not.

	morning session (9:30-12:30)	afternoon session (14:00-17:00)
Monday	Introduction to stochastic actor-based models of network evolution <ul style="list-style-type: none"> • <i>basics and modelling framework</i> • <i>introduction to the RSiena software</i> • <i>data requirements</i> • <i>a first analysis</i> 	Co-evolution of social networks and individual actor characteristics <ul style="list-style-type: none"> • <i>modelling selection and influence processes</i> First steps towards analysing the participants' own data (alternatively: data we provide)
Tuesday	Missing data <ul style="list-style-type: none"> • <i>network composition change</i> • <i>network regions that cannot change</i> • <i>missing data treatment</i> More steps towards analysing the participants' own data (alternatively: data we provide)	Model specification <ul style="list-style-type: none"> • <i>goodness of fit</i> • <i>forward and backward model selection strategies</i> • <i>remarks on statistical power</i> • <i>advanced estimation options</i>
Wednesday	Topic for both sessions is the modelling of different data types. Depending on participants' desires, this will be a selection of the following: <ul style="list-style-type: none"> • <i>valued (ordinal) networks</i> • <i>bipartite networks</i> • <i>multiplex networks</i> • <i>growing networks</i> • <i>multiple networks (multilevel data)</i> Some of these data types are not yet supported by the RSiena software, so we may need to address how to run SIENA in batch mode (works only under Windows!).	
Thursday	Models for cross-sectional network data <ul style="list-style-type: none"> • <i>the p2 model</i> • <i>exponential random graph models</i> Some exercises to get acquainted with StOCNET's p2 module and SIENA's ERG module	'Wrapping up' – here, remaining topics of interest will be addressed. <i>This could be data types not covered on Wednesday, simulation of networks, or other issues that arose during the workshop.</i>

Wireless internet access during the workshop will be provided.

Also, you will receive a memory stick that contains all the software needed, the transparencies used during the course, the assignments and data sets used, and a copy of the SIENA website (including literature and manuals).