Workshop on

"Agent-based models of social networks"

22-23 April 2024

Department of Social and Political Sciences, University of Milan

Organized by BehaveLab and Computational Models and Designs Hub (University of Milan)

Co-chairs: Federico Bianchi, Flaminio Squazzoni, & Raffaele Vacca (Department of Social and Political Sciences, University of Milan)

Venue: [Department of Social and Political Sciences, University of Milan, Via Conservatorio 7, 20122 Milano](#) (Italy)

Programme

Monday, 22 April

9:00 Welcome (Flaminio Squazzoni, University of Milan)

9:30 Federico Bianchi (University of Milan), *Agent-based modelling for social network research*

10:00 Károly Takács (Linköping University / Hungarian Academy of Sciences), *Micro mechanisms and network patterns*

10:30 Andreas Flache (University of Groningen), *TBA*

11:00 Coffee break

11:30 Francesco Renzini (University of Milan), *Estimating and validating agent-based models of social networks*

12:00 Jen Badham (Durham University), *Putting social structure into artificial networks*

12:30 Christoph Stadtfeld (ETH Zurich). *Linking behavioral micro models and macro features in empirical studies on multilevel networks*

13:00 Lunch (courtyard)

14:00 Miranda Lubbers (Autonomous University of Barcelona), *Agent-based modeling of societal networks*

14:30 Michał Bojanowski (Autonomous University of Barcelona), *TBA*

15:00 Cristina Chueca del Cerro (Durham University), *The echoes from social media platforms: an agent-based model of echo chambers' emergence*

15:30 Coffee break

16:00 Christian Steglich (University of Groningen / Linköping University), *Halting network cascades with ERGMs*

16:30 Jochem Tolsma (University of Groningen), *A small step from ministep to twostep: analysing the co-evolution of network structures and behaviour by relaxing the ministep assumption from 'RSiena' with 'RsienaTwoStep'*

17:00 Daniel Cowen (University of Groningen), *Who would I like to know? Surface- and deep-level traits in the dynamic friendship process*

17:30 - 18:00 Discussion

20:30 Social dinner at [Hotel Bianca Maria Palace](#)

Tuesday, 23 April

9:00 Yunsub Lee (Autonomous University of Barcelona), *An agent-based modeling approach to measuring centrality: how to identify the influential nodes within context-specific network flows*

9:30 Tibor Zingora (University of Groningen), *The identification of influential adolescents in schools using empirically-anchored simulations*

10:00 Alla Loseva (University of Groningen), *Simulating downward spirals of outgroup dislike in empirical school networks*

10:30 Tanzhe Tang (University of Groningen), *Investigating opinion dynamics mechanisms using Stochastic Actor-Oriented Model*

11:00 Coffee break

11:30 - 13:00 Closing discussion