1 Curriculum Vitae

Personal details:

Docent (associate professor)
Johan Koskinen
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Statistiska institutionen
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1.1 Education

2005 (June)	PhD in Statistics. Stockholm University (thesis defended 21 May 2004; Start of PhD 2001). Supervisor: Ove Frank; Discussant: Philippa Pattison
2003 (Sept.)	Licentiate of Philosophy in Statistics. Stockholm University
2000 (Feb.)	BA in Statistics. Stockholm University
1998 (Oct.)	Diploma in History of Art and Sociology. Stockholm University

1.2 Employment history

Aug 2022 (ongoing)	Lecturer, Department of Statistics, Stockholm University.
Mar 2019-Aug 2022	Senior Lecturer in Social Network Analysis, Melbourne School of Psychological Sciences, University of Melbourne.
Oct 2018-2020	Alan Turing Fellow, Alan Turing Institute, London.
Aug 2014-Sept 2020	Visiting academic/Senior Lecturer at the Institute for Analytical Sociology, Linköping University
Jan 2011-Mar 2019	Lecturer in Social Statistics, School of Social Sciences, University of Manchester.
Apr 2009-Jan 2011	Research Fellow (Post-doctoral), Centre for Research Methods in the Social Sciences (ReMiSS), Department of Politics and International Relations, University of Oxford.
June 2009-Jan 2011	Non-Stipendiary Research Fellow Nuffield College, Oxford.
Jan 2009	Visiting Statistician, University of Manchester (non-salaried)
Sep 2006-Dec 2008	Research Fellow, Department of Psychology, University of Melbourne.
Dec 2005-July 2006	Researcher, Swedish Institute for Social Research (SOFI), Stockholm University.
Oct 2004-Aug 2005	Lecturer (temporary), Department of Statistics, Stockholm University.
Oct 2004-Dec 2005	Research assistant, Department of Sociology, Stockholm University.
July 2000-Oct 2004	Doctoral Studentship, Department of Sociology, Stockholm University.
Jan 2000-Mar 2000	Teaching assistant, Basic course in statistical theory, Department of Sociology, Stockholm University.

2 Complete list of publications

Citations 5508; h-index 28; i10-index 47 (Google Scholar 2026-04-02)

Monographs

[47] Nick Crossley, Elisa Bellotti, Gemma Edwards, Martin G Everett, Johan Koskinen, and Mark Tranmer. *Social network analysis for ego-nets: Social network analysis for actor-centred networks*. Sage, 2015.

[81] Johan Koskinen. *Essays on Bayesian Inference for Social Networks*. PhD-Thesis, Department of Statistics, Stockholm University, 2004. ISBN: 91-7265-888-6.

[82] Johan Koskinen. *Bayesian Analysis of Cognitive Social Structures*. Licentiate-Thesis, Department of Statistics, Stockholm University, 2002.

Edited volumes

[57] Dean Lusher, Johan Koskinen, and Garry Robins. *Exponential Random Graph Models*. (*Awarded the 2016 Harrison White Book Award by the American Sociological Association; cited: 1943; copies sold: 4613*). Cambridge: Cambridge University Press, 2013.

Book chapters

[3] Colin Gallagher, Johan Koskinen, Jonathan Januar, and Elle Pattenden. "Social networks and post-disaster mental health: Bayesian analysis for partially observed network data in a bushfire-affected community". In: *Handbook of Social Networks and the Environment*. Ed. by Michelle Barnes and Örja Bodin. Edward Elgar Publishing, 2025, pp. 176–196.

[5] Johan Koskinen. "Social Influence and Contagion in Social Networks". In: *Information and Influence: Collective Information Processing under Societal Threat*. Ed. by Martin Wood, Alexei Filinkov, Lucia Falzon, Lewis Mitchell, and Yoshihisa Kashima. (Forthcoming). Springer, 2025.

[10] Johan Koskinen. "Exponential Random Graph Models". In: *SAGE Handbook of Social Network Analysis*. Ed. by Peter Carrington, John McLevey, and John Scott. 2nd ed. NY: SAGE, 2024, pp. 474–500.

[24] Johan Koskinen. "Exponential Random Graph Modelling". In: *SAGE Research Methods Foundations*. Ed. by P. Atkinson, S. Delamont, A. Cernat, J.W. Sakshaug, and R.A. Williams. SAGE, 2020. DOI: 10.4135/9781526421036888175.

[29] Chiara Broccatelli, Martin Everett, and Johan Koskinen. "Sticking together under covertness. An evidence of co-offending partnerships in two-mode covert networks". In: *Criminal Networks and Law Enforcement: Global International Perspectives on Illicit Enterprise*. Ed. by Hufnagel and Moiseienko. Routledge, 2019.

[30] Johan Koskinen, Chiara Broccatelli, Peng Wang, and Garry Robins. "Bayesian analysis of ERG models for multilevel, multiplex, and multi-layered networks with sampled or missing data". In: *New Statistical Developments in Data Science: SIS 2017, Florence, Italy, June 28–30*. Ed. by Alessandra Petrucci, Filomena Racioppi, and Rosanna Verde. Vol. 288. Springer, 2019, pp. 105–117.

[36] Johan Koskinen. "Exponential Random Graph Models". In: *Wiley StatsRef: Statistics Reference Online*. Ed. by Walter Piegorsch Brian Everitt Geert Molenberghs, Marie Davidian Fabrizio Ruggeri, and Ron Kenett. article: stat08136. Wiley, 2018. DOI: 10.1002/9781118445112.stat08136.

[40] Johan Koskinen, Tim Müller, and Thomas Grund. "A dynamic discrete-choice model for movement flows". In: *Studies in Theoretical and Applied Statistics: SIS 2016, Salerno, Italy, June 8-10*. Ed. by C. Perna, M. Pratesi, and A. Ruiz-Gazen. Springer, 2017, pp. 107–117. DOI: 10.1007/978-3-319-73906-9_10.

[41] Filip Agneessens and Johan Koskinen. "Modelling individual outcomes using a multilevel social influence (MSI) model". In: *Multilevel Network Analysis for the Social Sciences*. Ed. by Emmanuel Lazega and Tom Snijders. London: Springer, 2016, pp. 81–105.

[43] James Hollway and Johan Koskinen. "Multilevel Bilateralism and Multilateralism". In: *Multilevel Network Analysis for the Social Sciences*. Ed. by Emmanuel Lazega and Tom Snijders. London: Springer, 2016, pp. 315–332.

[52] Johan Koskinen and Galina Daraganova. "Dependence Graphs and Sufficient statistics". In: *Exponential random graph models for social networks: Theory, methods and applications*. Ed. by Dean Lusher, Johan Koskinen, and Garry Robins. NY: Cambridge University Press New York, 2013, pp. 77–89.

[53] Johan Koskinen and Galina Daraganova. "Exponential random graph model fundamentals". In: *Exponential random graph models for social networks: Theory, methods and applications*. Ed. by Dean Lusher, Johan Koskinen, and Garry Robins. NY: Cambridge University Press New York, 2013, pp. 49–76.

[55] Johan Koskinen and T.A.B. Snijders. "Simulation, Estimation and Goodness of Fit". In: *Exponential random graph models for social networks: Theory, methods and applications*. Ed. by Dean Lusher, Johan Koskinen, and Garry Robins. NY: Cambridge University Press New York, 2013, pp. 141–166.

[59] T.A.B. Snijders and J.H. Koskinen. "Longitudinal models". In: *Exponential Random Graph Models for Social Networks: Theory, Methods, and Applications*. Ed. by Dean Lusher, Johan Koskinen, and Garry Robins. Cambridge: Cambridge University Press, 2013, pp. 130–140.

[83] Johan Koskinen, Ingegerd Jansson, and Marinus Spreen. "The Role of Perceptional Data in Sampling Large Networks from Hidden Populations". In: *Contributions to Social Network Analysis, Information Theory, and Other Topics in Statistics; A Festschrift in honour of Ove Frank*. Ed. by Jan Hagberg. Stockholm: Department of Statistics, Stockholm University, 2002, pp. 56–73.

Peer-reviewed proceedings

[19] Y. Xiao, Y. Cui, N. Raut, J. Januar, J. Koskinen, N. Contractor, W. Chen, and Z. Sha. "Information Retrieval and Survey Design for Two-Stage Customer Preference Modeling". In: *Proceedings of the Design Society*. Vol. 2. Cambridge University Press, 2022, pp. 811–820. DOI: 10.1017/pds.2022.83.

[39] Johan Koskinen, Chiara Broccatelli, Peng Wang, and Garry Robins. "Statistical analysis for partially observed multilayered networks". In: *SIS 2017. Statistics and Data Science: new challenges, new generations*. Ed. by A. Petrucci and R. Verde. Firenze University Press. 2017, pp. 561–568.

[45] Johan Koskinen, Tim Müller, and Thomas Grund. "A dynamic discrete-choice model for movement flows". In: *Proceedings of 8th Scientific Meeting of the Italian Statistical Society*. Italian Statistical Society. 2016.

[67] J. Koskinen. "Using latent variables to account for heterogeneity in exponential family random graph models". In: *Proceedings of the 6th St. Petersburg Workshop on Simulation*. Ed. by S. M. Ermakov, V. B. Melas, and A. N. Pepelyshev. Vol. 2. St. Petersburg, Russia: St. Petersburg State University, 2009, pp. 845–849.

[76] Johan Koskinen. "On Bayesian Inference for Dynamic Network Data". In: *Proceedings of the 5th St. Petersburg Workshop on Simulation*. Ed. by S. M. Ermakov, V. B. Melas, and A. N. Pepelyshev. Vol. 2. St. Petersburg, Russia: St. Petersburg State University, 2005, pp. 385–390.

Peer-reviewed journal articles

[1] Jonathan Januar, Colin H Gallagher, and Johan Koskinen. "In the Shadow of Silence: Modelling Missing Data in the Dark Networks of Crime and Terrorists". In: *Social Networks* 84 (2026), pp. 147–163. DOI: 10.1016/j.socnet.2025.09.003.

[2] Yaxin Cui, Zhuoxin Sun, Yinshuang Xiao, Zhenghui Sha, Johan Koskinen, Noshir Contractor, and Wei Chen. "Network Analysis of Two-Stage Customer Decisions with Preference-Guided Market Segmentation". In: *Journal of Computing and Information Science in Engineering* 25.6 (2025). DOI: 10.1115/1.4066420.

[6] Neelam Modi, Johan Koskinen, Leslie DeChurch, and Noshir Contractor. "Modeling the "Who" and "How" of Social Influence in the Adoption of Health Practices". In: *Social Networks* 82 (2025), pp. 99–110. DOI: 10.1016/j.socnet.2025.03.006.

[7] Yinshuang Xiao, Yaxin Cui, Johan Koskinen, Noshir Contractor, Wei Chen, and Zhenghui Sha. "Product Design Incorporating Competition Relations: A Network-Based Design Framework Considering Local Dependencies". In: *Journal of Mechanical Design* 147.2 (2025). DOI: 10.1115/1.4066426.

[8] Filip Agneessens, Francisco J Trincado-Munoz, and Johan Koskinen. "Network formation in organizational settings: Exploring the importance of local social processes and team-level contextual variables in small groups using Bayesian hierarchical ERGMs". In: *Social Networks* 77 (2024), pp. 104–117. DOI: 10.1016/j.socnet.2022.07.001.

[9] Colin Gallagher, Dean Lusher, Johan Koskinen, Bopha Roden, Peng Wang, Aaron Gosling, Anastasios Polyzos, Martina Stenzel, Sarah Hegarty, Thomas Spurling, and Gregory Simpson. "Network patterns of university-industry collaboration: A case study of the chemical sciences in Australia". In: *Scientometrics* 128.8 (2024), pp. 4559–4588. DOI: 10.1007/s11192-023-04749-8.

[11] Alisa Pedrana, Anna Bowring, Katherine Heath, Alexander J. Thomas, Anna Wilkinson, Stephanie Fletcher-Lartey, Freya Saich, Stephanie Munari, Jane Oliver, Bronwen Merner, Aimee Altermatt, Thi Nguyen, Long Nguyen, Kathryn Young, Phoebe Kerr, Deborah Osborne, Edwin Jit Leung Kwong, Martha Vazquez Corona, Tianhui Ke, Yanqin Zhang, Limya Eisa, Adil Al-Qassas, Deng Malith, Angela Davis, Lisa Gibbs, Karen Block, Danielle Horyniak, Jack Wallace, Robert Power, Danny Vadasz, Rebecca Ryan, Freya Shearer, Caroline Homer, Alex Collie, Niamh Meagher, Margie Danchin, Jess Kaufman, Peng Wang, Ali Hassani, Giovanni Radhitio Putra Sadewo, Garry Robins, H. Colin Gallagher, Petr Matous, Bopha Roden, Maedeh Aboutalebi Karkavandi, James Coutinho, Chiara Broccatelli, Johan Koskinen, Stephanie Curtis, Joseph S Doyle, Nic Geard, Ali Coelho, Sophie Hill, Nick Scott, Dean Lusher, Mark Stoove, Katherine Gibney, and Margaret Hellard. "Priority populations' experiences of isolation, quarantine and distancing for COVID-19: protocol for a longitudinal cohort study (Optimise Study)". In: *BMJ open* 14.1 (2024), e076907.

[12] Yinshuang Xiao, Yaxin Cui, Nikita Raut, Jonathan Januar, Johan Koskinen, Noshir Contractor, Wei Chen, and Zhenghui Sha. "Survey data on customer two-stage decision-making process in household vacuum cleaner market". In: *Data in Brief* (2024), p. 110353. DOI: 10.1016/j.dib.2024.110353.

[13] Johan Koskinen, Pete Jones, Darkhan Medeuov, Artem Antonyuk, Kseniia Puzyreva, and Nikita Basov. "Analysing networks of networks". In: *Social Networks* 74 (2023), pp. 102–117. DOI: 10.1016/j.socnet.2023.02.002.

[14] Johan Koskinen and T.A.B Snijders. "Multilevel longitudinal analysis of social networks". In: *Journal of the Royal Statistical Society Series A: Statistics in Society* 186 (3 2023), pp. 376–400. DOI: 10.1093/jrsssa/qnac009.

[15] Garry Robins, Dean Lusher, Chiara Broccatelli, David Bright, Colin Gallagher, Maedeh Aboutalebi Karkavandi, Petr Matous, James Coutinho, Peng Wang, Johan Koskinen, et al. "Multilevel network interventions: Goals, actions, and outcomes". In: *Social Networks* 72 (2023), pp. 108–120. DOI: 10.1016/j.socnet.2022.09.005.

[16] Per Block, James Hollway, Christoph Stadtfeld, Johan Koskinen, and Tom Snijders. "Circular specifications and "predicting" with information from the future: Errors in the empirical SAOM–TERGM comparison of Leifeld & Cranmer". In: *Network Science* 10.1 (2022), pp. 3–14. DOI: 10.1017/nws.2022.6.

[17] Johan Koskinen and Galina Daraganova. "Bayesian analysis of social influence". In: *Journal of the Royal Statistical Society Series A: Statistics in Society* 185.4 (2022), pp. 1855–1881. DOI: 10.1111/rssa.12844.

[18] Patrycja Stys, Samuel Muhindo, Sandrine N'simire, Ishara Tchumisi, Papy Muzuri, Bauma Balume, and Johan Koskinen. "Trust, quality, and the network collection experience: A tale of two studies on the Democratic Republic of the Congo". In: *Social Networks* 68 (2022), pp. 237–255. DOI: 10.1016/j.socnet.2021.08.002.

[21] James A Coutinho, Tomáš Diviák, David Bright, and Johan Koskinen. "Multilevel determinants of collaboration between organised criminal groups". In: *Social Networks* 63 (2020), pp. 56–69. DOI: 10.1016/j.socnet.2020.04.002.

[23] Pete Jones, Eithne Quinn, and Johan Koskinen. "Measuring centrality in film narratives using dynamic character interaction networks". In: *Social Networks* 63 (2020), pp. 21–37. DOI: 10.1016/j.socnet.2020.03.003.

[25] Giovanni RP Sadewo, Emiko S Kashima, Colin Gallagher, Yoshihisa Kashima, and Johan Koskinen. "International students' cross-cultural adjustment: Social selection or social influence?" In: *Journal of Cross-Cultural Psychology* 51.6 (2020), pp. 490–510. DOI: 10.1177/0022022120930092.

[26] Christophe Sohn, Dimitris Christopoulos, and Johan Koskinen. "Borders moderating distance: a social network analysis of spatial effects on policy interaction". In: *Geographical Analysis* 52.3 (2020), pp. 428–451. DOI: 10.1111/gean.12218.

[27] Patrycja Stys, Judith Verweijen, Papy Muzuri, Samuel Muhindo, Christoph Vogel, and Johan H Koskinen. "Brokering between (not so) overt and (not so) covert networks in conflict zones". In: *Global Crime* 21.1 (2020), pp. 74–110. DOI: 10.1080/17440572.2019.1596806.

[28] David Bright, Johan Koskinen, and Aili Malm. "Illicit network dynamics: The formation and evolution of a drug trafficking network". In: *Journal of Quantitative Criminology* 35 (2019), pp. 237–258. DOI: 10.1007/s10940-018-9379-8.

[32] Jose Pina-Sánchez, Johan Koskinen, and Ian Plewis. "Adjusting for measurement error in retrospectively reported work histories: An analysis using Swedish register data". In: *Journal of Official Statistics* 35.1 (2019), pp. 203–229.

[33] Per Block, Johan Koskinen, James Hollway, Christian Steglich, and Christoph Stadtfeld. "Change we can believe in: Comparing longitudinal network models on consistency, interpretability and predictive power". In: *Social Networks* 52 (2018), pp. 180–191. DOI: 10.1016/j.socnet.2017.08.001.

[34] Martin G Everett, Chiara Broccatelli, Stephen P Borgatti, and Johan Koskinen. "Measuring knowledge and experience in two mode temporal networks". In: *Social Networks* 55 (2018), pp. 63–73. DOI: 10.1016/j.socnet.2018.05.003.

[35] Johan Koskinen. "Discussion of "Optimal treatment allocations in space and time for on-line control of an emerging infectious disease" by Laber, N. J. Meyer, B. J. Reich, K. Pacifici, J. A. Collazo and J. Drake". In: *Journal of the Royal Statistical Society Series C* 67 (2018), p. 779. arXiv: 2006.16527.

[37] Johan Koskinen, Peng Wang, Garry Robins, and Philippa Pattison. "Outliers and influential observations in exponential random graph models". In: *Psychometrika* 83 (2018), pp. 809–830. DOI: 10.1007/s11336-018-9635-8.

[38] Tim S Müller, Thomas U Grund, and Johan H Koskinen. "Residential segregation and 'ethnic flight' vs. 'ethnic avoidance' in Sweden". In: *European Sociological Review* 34.3 (2018), pp. 268–285. DOI: 10.1093/esr/jcy010.

[42] Chiara Broccatelli, Martin Everett, and Johan Koskinen. "Temporal dynamics in covert networks". In: *Methodological Innovations* 9 (2016), pp. 1–14.

[44] James Hollway and Johan Koskinen. "Multilevel embeddedness: The case of the global fisheries governance complex". In: *Social Networks* 44 (2016), pp. 281–294. DOI: 10.1016/j.socnet.2015.03.001.

[46] Alex D Stivala, Johan H Koskinen, David A Rolls, Peng Wang, and Garry L Robins. "Snowball sampling for estimating exponential random graph models for large networks". In: *Social Networks* 47 (2016), pp. 167–188. DOI: 10.1016/j.socnet.2015.11.003.

[48] Johan Koskinen, Alberto Caimo, and Alessandro Lomi. "Simultaneous modeling of initial conditions and time heterogeneity in dynamic networks: An application to foreign direct investments". In: *Network Science* 3.1 (2015), pp. 58–77. DOI: 10.1017/nws.2015.3.

[50] Jose Pina Sánchez, Johan Koskinen, and Ian Plewis. "Measurement error in retrospective work histories". In: *Survey Research Methods* 8.1 (2014), pp. 43–55.

[54] Johan Koskinen and Alessandro Lomi. "The local structure of globalization". In: *Journal of statistical physics* 151.3-4 (2013), pp. 523–548.

[56] Johan H Koskinen, Garry L Robins, Peng Wang, and Philippa E Pattison. "Bayesian analysis for partially observed network data, missing ties, attributes and actors". In: *Social Networks* 35.4 (2013), pp. 514–527. DOI: 10.1016/j.socnet.2013.07.003.

[58] Jose Pina Sánchez, Johan Koskinen, and Ian Plewis. "Implications of retrospective measurement error in event history analysis". In: *Metodologia de Encuestas* 15 (2013), pp. 5–25.

[60] Galina Daraganova, Pip Pattison, Johan Koskinen, Bill Mitchell, Anthea Bill, Martin Watts, and Scott Baum. "Networks and geography: Modelling community network structures as the outcome of both spatial and network processes". In: *Social networks* 34.1 (2012), pp. 6–17.

[61] Johan Koskinen and Christofer Edling. "Modelling the evolution of a bipartite network—Peer referral in interlocking directorates". In: *Social Networks* 34.3 (2012), pp. 309–322.

[62] Johan Koskinen and Sten-Åke Stenberg. "Bayesian analysis of multilevel probit models for data with friendship dependencies". In: *Journal of Educational and Behavioral Statistics* 37.2 (2012), pp. 203–230. DOI: 10.3102/1076998611402504.

[64] J. H. Koskinen, G. L. Robins, and P. E. Pattison. "Analysing exponential random graph (p-star) models with missing data using Bayesian data augmentation". In: *Statistical Methodology* 7.3 (2010), pp. 366–384. DOI: 10.1016/j.stamet.2009.09.007.

[65] Tom AB Snijders, Johan Koskinen, and Michael Schweinberger. "Maximum likelihood estimation for social network dynamics". In: *The annals of applied statistics* 4.2 (2010). (NIH Public Access), pp. 567–588. DOI: 10.1214/09-AOAS313.

[66] Gebrenegus Ghilagaber and Johan Koskinen. "Bayesian Adjustment of Anticipatory Covariates in the Analysis of Retrospective Demographic Data". In: *Mathematical Population Studies* 16.2 (2009), pp. 105–130.

[74] Johan H Koskinen and Tom AB Snijders. "Bayesian inference for dynamic social network data". In: *Journal of statistical planning and inference* 137.12 (2007), pp. 3930–3938.

Research reports

[49] Kathryn Oliver, N Crossley, G Edwards, J Koskinen, M Everett, and C Broccatelli. *Covert networks: structures, processes and types*. Tech. rep. The Mitchell Centre for Social Network Analysis, University of Manchester, Manchester, UK, 2014. URL: https://hummedia.manchester.ac.uk/schools/soss/research/mitchell/covertnetworks/wp/working_paper1.pdf.

[68] Johan Koskinen, G Robins, and P Pattison. *Missing data in social networks: Problems and prospects for model-based inference*. Tech. rep. 1. MelNet Social Networks Laboratory, Dept. of Psychology, University of Melbourne, 2009.

[69] J. Koskinen. *The Linked Importance Sampler Auxiliary Variable Metropolis Hastings Algorithm for Distributions with Intractable Normalising Constants*. Tech. rep. 1. Working paper. MelNet Social Networks Laboratory, Dept. of Psychology, University of Melbourne, 2008. URL: http://www.melnet.org.au/s/MelNet-Techreport-08-01.PDF.

[70] J. Koskinen, G. Robins, and P. Pattison. *Extreme Actors - Outliers and Influential Observations in exponential random graph (p-star) models*. Tech. rep. 5. Working paper. MelNet Social Networks Laboratory, Dept. of Psychology, University of Melbourne, 2008. URL: http://www.sna.unimelb.edu.au/publications/MelNet_Techreport_08_05.pdf.

[71] Johan Koskinen, G Robins, and P Pattison. *Analysing Exponential Random Graph (p-star) Models with Missing Data Using Bayesian Data Augmentation*. Tech. rep. 4. MelNet Social Networks Laboratory, Dept. of Psychology, University of Melbourne, 2008. URL: http://www.sna.unimelb.edu.au/publications/MelNet_Techreport_08_04.pdf.

[72] G. L. Robins, P. E. Pattison, and J. H. Koskinen. *Network Degree Distributions*. MelNet Social Networks Laboratory Technical Report 08-02. Department of Psychology, School of Behavioural Science, University of Melbourne, 2008.

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[77] JH Koskinen. *Bayesian analysis of exponential random graphs-estimation of parameters and model selection*. Tech. rep. 2. Research Report 2004: 2, Department of Statistics, Stockholm University, 2004.

[78] JH Koskinen. *Bayesian Inference for Longitudinal Social Networks*. Tech. rep. 4. Research Report 2004: 4, Department of Statistics, Stockholm University, 2004.

[79] JH Koskinen. *Model selection for Cognitive Social Structures*. Tech. rep. 3. Research Report 2004: 3, Department of Statistics, Stockholm University, 2004.

[80] JH Koskinen. *Model Selection for Longitudinal Social Networks*. Tech. rep. 5. Research Report 2004: 5, Department of Statistics, Stockholm University, 2004.

Official reports

[20] Johan Koskinen, David Bright, Chad Whelan, David Kernot, Callum Jones, Giovanni Sadewo, and Shandon Harris-Hogan. *Pathways to Radicalisation: Using Social Network Analysis to Detect Harmful and Protective Influences within Social Networks*. Official report for Victoria Police for project "Pathways to radicalisation: Using social network analysis to detect harmful and protective influences within social networks" funded by DoJ, Victoria. Department of Justice, Victoria, 2021.

[31] Johan Koskinen, Pete Jones, and Darhan Medeuoov. *Towards a statistical framework for socially produced knowledge*. Report for Methodological Subaward of "Creation of knowledge on ecological hazards in Russian and European local communities". Russian Science Foundation, 2019.

[63] J. Lospinoso, J. Koskinen, and T.A.B. Snijders. *Latent Stochastic Actor Oriented Models for Relational Event Data*. NY 10996: US Military Academy West Point, 2012. URL: `http://www.dtic.mil/get-tr-doc/pdf?AD=ADA591247`.

[73] J. H. Koskinen, G. L. Robins, and P. E. Pattison. *Missing data in social network analysis: Inferences from incomplete missing data, Interim report*. 73 pages. Edinburgh, SA: Defence Science and Technology Organisation, Australia, 2007.

Misc.

[4] Jonathan Januar, Colin H Gallagher, and Johan Koskinen. *Modelling Covert Network Discovery as Biased Edge Sampling - Assumptions and Implications*. (under review). 2025.

[22] Tasuku Igarashi and Johan Koskinen. *Overchoosing: A Mechanism of Tie-Formation in Social Networks*. 2020. URL: `https://psyarxiv.com/47q39`.

[51] Peng Wang, Garry Robins, Philippa Pattison, and Johan H Koskinen. *MPNet: Program for the simulation and estimation of (p*) exponential random graph models for multilevel networks*. Melbourne: Melbourne School of Psychological Sciences, The University of Melbourne, 2014.

2.1 Other academic activities

2.1.1 Grant funding

2021- 'Societal Threats, Psychosocial Security, and Collective Information Processing,' Co-I, ORnet: Influence and interference in the Grey Zone, Defence Science and Technology Group ($100,000 AUD)

2021-2022 'Statistical analysis of community networks in post-disaster communities,' RO Research Contract, Bushfire Recovery Victoria and University of Melbourne Research Partnership funded by Dept of Justice and Community Safety (via Lisa Gibbs)($10,000 AUD)

2021-2022 'Investigating post-disaster community resilience through network analysis,' Co-I, Melbourne Climate Futures Climate Research Accelerator (CRX) ($50,000 AUD)

2021-2024 'Covert Networks: How to learn as much as possible about the structure of a network from sampled subnetworks' (Grant W911NF-21-1-0335 for Proposal 79034-NS), Co-I and principal investigator for Melbourne sub-award,US Army Research Office ($650,429 USD)

2020-2021 'Social Network Analysis: U-10 Research brief,' Internal University of Melbourne consultancy, (PI: John Fitzgerald, UniMelb) DHHS Victoria ($4,000 AUD)

2020-2021 'Developing statistical models for social influence in large-scale educational networks,' Co-I, Chancelleries of Universities of Manchester and Melbourne, ($10K AUD)

2020-2023 'Multidimensional networks of users and car purchases,' non-US collaborator, National Science Foundation US (NSF-CMMI-2005661)($ 20,833 USD by contractual invoicing)

2020-2023 'Statistical models for social influence and contagion in dynamic, large-scale urban networks,' Global Doctoral Research Network (GOLDEN) Dual award between The University of Manchester and The University of Melbourne (a fully funded PhD scholarship shared between the Universities of Manchester and Melbourne)

2019-2020 'Pathways to radicalisation: Using social network analysis to detect harmful and protective influences within social networks,' Principal (lead) investigator, Department of Justice, Victoria ($79,996 AUD)

2019-2021 'Creation of knowledge on ecological hazards in Russian and European local communities,' co-applicant, Russian Science Foundation (RUB6000K, equivalent to AUD141K for entire project)

2017 Short Term Research Collaboration Programme (STRCP), Singapore Management University (£2030)

2016-2019 European Cooperation for Statistics of Network data science (COST), EU Horizon, 2020, one of 56 secondary proposers, across 13 countries.

2015-2018 'A Comparative Analysis of Combatants' Economic and Social-Political Power during and after War' (ES/M009130/1), co-proposer and named researcher, SRC-DfID poverty alleviation grant.

2014-2017 'Complex Ties: The Role of Networks in the Commercialisation of Public Research' (FT130101201), co-proposer, Australian Research Council, Future Fellowship (PI: Dean Lusher).

2013-2016 'Collecting and analyzing secondary covert social network data' (RPG-2013-140) Leverhulme, Co-I, (£248K)

2013-2015 'Network structure and social processes in empirical social systems' (DP130101573) Australian Research Council, named researcher.

2010-2014 'Multilevel Network Modelling Group,' Co-I, Leverhulme Trust (£83,162)

2012-2014 'Incomplete multilevel networks and networks in complex contexts,' Principal investigator BA/Leverhulme, (£3,000)

2.1.2 A selection of international conference presentations (ca 60 since 2001)

Taboo Ties: How Social Structure Constrains and Enables Ties of Friendship and Romance (**Johan Henrik Koskinen**, Michael Genkin). Presented at ARS'25 Tenth International Workshop on Social Network Analysis, 30-31 October 2025, Naples (Italy).

Perceiving Gender and Ethnic Homophily: Determinants of Adolescents' Perceptions of Friendships in the Classroom (**Anniek Schlette**, Tom Nijs, Tobias H. Stark, Johan Koskinen). Presented at INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.

More nominations, less reciprocation: Modeling an "overchoosing" phenomenon in large social networks (**Tasuku Igarashi**, Johan Koskinen, Colin Gallagher, Conrad Chan, David Lipta). Presented at INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.

Bayesian estimation of ERGMs with not-at-random missingness in covert networks (**Jonathan Januar**, H Colin Gallagher, Johan Koskinen1). Presented at INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.

We need an intervention - determining whom to target using D-optimality (**Ellinor Fackle Fornius** & Johan Koskinen). Presented at INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.

Social influence on multivariate dichotomous data (**Johan Henrik Koskinen**, Peng Wang, Neelam Modi, Jonathan Januar, Noshir Contractor). Presented at INSNAXLV international

social networks conference June 2025 at The Sorbonne, Paris, France.
Signs of Friendship? How Visual Identity Cues Shape Perceptions of Social Networks (**Evangelos Dimosiaris**, Tobias H. Stark, Johan Henrik Koskinen). Presented at INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.
Interorganisational collaboration in the HIV/Hepatitis C sector: An application of Bayesian Hierarchical SAOM (Gallagher, Chamberlain, Koskinen, Januar, Brown; Presented by Gallagher). Presented at INSNAXLIV international social networks conference at Heriot-Watt University, Edinburgh, UK.
Multivariate Autologistic Actor Attribute models for social influence (joint with Januar, Neelam, Contractor), Presented at INSNAXLIV international social networks conference at Heriot-Watt University, Edinburgh, UK.
Modelling covert network discovery through biased edge-sampling joint with Januar, Gallagher; presented by Jonathan Januar). Presented at INSNAXLIV 2024.
Cohesion, protection, and risk: Multilevel network determinants of radicalisation and desistance (joint with Bright, Whellan, Kernot, Jones, Sadewo, Harris-Hogan). Presented at Illicit networks workshop, Deakin University, Melbourne, Australia.
Modelling sampling processes in covert networks with line graphs for biased observation processes (joint with Januar, Gallagher; presented by Jonathan Januar) The Illicit Networks Workshop XIII, December 11, 2023, Deakin, Melbourne.
Representing Missingness in Covert Network Data with Missing Data Models (joint with Januar, Gallagher; presented by Januar). Presented at the Australian Social Network Conference, ASNAC, UNSW, Sydney, Australia, December 2023.
Interorganisational Collaboration in the HIV/Hepatitis C Sector: An Application of Bayesian ERGM (Chamberlain, Gallagher, Koskinen, Januar, Brown; Presented by Gallagher), ASNAC 2023, UNSW
The growth and contagion of homegrown terrorism in an ecological setting (joint with Bright, Whellan, Kernot, Jones, Sadewo, Harris-Hogan), EUSN 2023, Ljubljana, 4–8 September 2023
Modeling the 'Who' and 'How' of Social Influence in the Adoption of Health Practices (presented by Neelam Modi) Sunbelt 2023, XLIII Social Networks Conference of the International Network for Social Network Analysis, Portland, June 27-July 1
Homophily Estimation in Nationally Representative Egocentric Data Using an Alter-Based Framework (Presented by Michael Genkin) Sunbelt 2023, XLIII Social Networks Conference of the International Network for Social Network Analysis, Portland, June 27-July 1
Modelling Unobserved Ties in Covert Networks with Missing Data Models (presented by Jonathan Januar) Sunbelt 2023, XLIII Social Networks Conference of the International Network for Social Network Analysis, Portland, June 27-July 1.
Autologistic Actor-Attribute Models with Partially Observed Data. Sunbelt 2023, XLIII Social Networks Conference of the International Network for Social Network Analysis, Portland, June 27-July 1.
Bayesian estimation for partially observed networks and large component ERGM, *ARS'13*, Ischia, Italy, 2-3 May, 2023
Social influence in egocentrically sampled networks. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
A Network-Based Approach to Modeling Product Co-consideration and Choice Relations.

Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis, Cairns, 12-16 July, 2022.
Massively parallel computing for hierarchical stochastic actor oriented models on high performance computing. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
ERGMs – good or bad? *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Analysing ALAAM in post-disaster communities with missing actor attributes, ties, and outcome variables. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Network-based Customer Preference Modeling. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Social Distance in the United States Reconsidered. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
What can experiments tell us about the coevolution of communication networks and collective action in social-ecological systems? *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Longitudinal co-evolution of social support and mental health: Findings from bushfire-affected communities. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Symptomatology of network ineffectiveness: Taxonomy and diagnostics. *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Modelling the evolution of cooperation in social-ecological systems: do we need to incorporate network processes or is network structure sufficient? *Sunbelt 2022, XLII Social Networks Conference of the International Network for Social Network Analysis*, Cairns, 12-16 July, 2022.
Visible ties may not mean important ties: An approach to modelling unobserved actors and ties. *12th Illicit Networks Workshop*, Limerick, June 2022.
Bayesian Analysis of Social Influence, *ARS'19*, Salerno October 2019, Italy. Bayesian Analysis of Social Influence, *3rd International Conference on Computational Social Science IC2S2*, Amsterdam July 2019.
Bayesian analysis of ERGM for large networks, *Mannheim workshop on large networks*, University of Mannheim, June 2019.
Koskinen, Marcum, Christopoulos and Sohn (2019), What makes an organisation – Bayesian aggregation of perceived organisational ties *Sunbelt 2019* Montreal, 2019
What makes an organisation – Bayesian aggregation of perceived organisational ties, *2nd American Social Network Conference, NASN*, Washington DC, November 2018.
Bayesian Analysis of Social Network Data from Patchy Sources, *Royal Statistical Society International Conference*, Cardiff, Sept 2019
Statistical analysis for partially observed multilayered networks, *SIS 2017 Statistical Conference*, 'Statistics and Data Science: new challenges, new generations,' University of Florence, 28-30 June 2017.
Applying Bayesian inference for ERGM to a large multilevel criminal network *Sunbelt XXXVII, International Sunbelt Social Network Conference*, Beijing China, May 30– June 4, 2017

Non-parametric analysis of bi-dynamic line-graphs for dynamic network data. *Sunbelt XXXVI, International Sunbelt Social Network Conference,* Newport Beach, CA, April 6– 10, 2016
Bayesian analysis of ERGM for large networks using component decomposition with an application to a large criminal network, *ISA*, Marrakesh, July 2016
Large-scale Bayesian estimation for component exponential random graph models, University of *London 7th International Conference of the ERCIM*, London, Dec 2015
Network Perspectives on Residential Segregation. *Sunbelt XXXV, International Sunbelt Social Network Conference*, Brighton, UK, June 23– 28, 2015
How Do People Act Under Secrecy? Network Analysis for Covert Networks (with Chiara Broccatelli [presenter] and M. Everett). *Sunbelt XXXV, International Sunbelt Social Network Conference*, Brighton, UK, June 23– 28, 2015
Mapping the Primitive Methodist Connexion (with J. Crump [presenter]).*Sunbelt XXXV, International Sunbelt Social Network Conference*, Brighton, UK, June 23– 28, 2015
Individual, Dyadic and Group Effects of Attributes on Trust Formation: Multilevel Erg Modelling (with Agneessens [presenter]). Sunbelt XXXV, International Sunbelt Social Network Conference, Brighton, UK, June 23– 28, 2015
Bayesian analysis of patchy covert networks. *Sunbelt XXXIV, International Sunbelt Social Network Conference*, TradeWinds Island Resorts, St. Pete Beach, FL February 18 – 23, 2014
Using semiparametric copulas for assessing overall goodness-of-fit to network data. Dec 15 2013 University of London *6th International Conference of the ERCIM*
Bayesian Hierarchical Stochastic Actor-oriented Models for Networks Observed in Time Across Different Settings, *INSNA Sunbelt XXXIII*, May 21-26, Hamburg.
Posterior predictive p-values for network data from semiparametric copulas, *8th World Congress in Probability and Statistics*, Istanbul, July 11 2012.
Assessing fit for multilevel models of binary response with peer dependencies, *Sunbelt XXXII International Sunbelt Social Network Conference*, Redondo Beach, CA, March 13 – 15, 2012.

2.1.3 Academic enterprise and knowledge transfer

2.1.4 Visiting appointments/secondments

Aug 2022-	Honorary Research Fellow at the Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne
April 2019-	Honorary Research Fellow, University of Manchester
Jan 2012-Dec 2018	Honorary Research Fellow at the Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne
Jan 2016	Academic Visiting Fellow University of Swinburne
Nov 2017-Dec 2017	Academic Visiting Fellow University of Swinburne
Jan 2011-Mar 2019	Member of the Mitchell Centre for Social Network Analysis, University of Manchester
Jan 2018-Mar 2019	Member of the Data Science Institute, University of Manchester
Jan 2014-	International Fellow The Social Network Analysis Research Center (SoNARC), Faculty of Economics, Università della Svizzera italiana, Lugano
Jan 2011-Dec 2016	Associate member of Nuffield College
2010-2013	Associate Member of the Department of Statistics, University of Oxford

2.1.5 Prizes, Honours and Awards

2023 The Pip Pattison Research Award, the Australian Network of Social Network Analysts (ANSNA)(a life-time achievement award).
2018 Alan Turing Fellowship, the Alan Turing Institute
2017 William D. Richards software award (awarded biannually) for R-package RSiena (co-author), the International Network of Social Network Analysts (INSNA)
2016 Harrison White Outstanding Book Award in Mathematical Sociology (for ERGM CUP book), American Sociological Association
2016 Sponsor of Simon visiting Professorship for Prof. Murray Aitkin

2.1.6 Invited/ keynote/ plenary lectures or talks (all expenses paid)

Selected invites (total ca 30 since 2009)
2025 Examining Causality in Networks, Invited talk in "Atelier Réseaux sociaux", **Labex SMS, Université Toulouse Jean Jaurès**, Toulouse, France
2024 Some reflections on treatment and effect in network research, **Keynote address The Chilean Society for Social Network Science (ChiSocNet) summer school**, Santiago, Chile
2023 Causality, Networks, and the Titanic, **Keynote address Australian Social Networks Conference (ASNAC)**, UNSW, Sydney
2023 Making Sense of Imperfectly Observed Networks, College of Arts and Social Sciences, **Australian National University**, Canberra
2022 Social Networks Lab Seminar, **ETH**
2022 Invited speaker, 6th Networks in the Global World - Structures in Contexts, **St Petersburg State University**
2020 Invited speaker, 5th Networks in the Global World - Structures in Contexts, **St Petersburg State University**
2020 Invited speaker, 10th ANN SONIC NICO International Workshop on Network Theory, **Northwestern University** (rescheduled due to Covid-19)

2018 Topology and Networks - Network representations and network shapes, Data Topography, **International Business School Suzhou at Xi'an Jiaotong – Liverpool University**, China

2018 Bayesian Hierarchical ALAAM, invited speaker, NetGlow 2018, **St Petersburg State University**

2017 Recruitment, grievances, and inertia, **DST Group (Department of Defence)**, Australia (jointly presented by Stys. and Koskinen)

2017 Some aspects of statistical modelling of networks, Department of Social Work and Social Administration, **University of Hong Kong**, Hong Kong

2017 Bayesian ERGM for large networks, invited speaker, super computer K, **University of Hyogo**, Japan

2017 School of Social Sciences, **Singapore Management University**, Singapore

2017 Analysing network data from unstructured sources, WINPEC, **Waseda**, Japan

2017 Analysing covert networks from unstructured sources, Waterloo Institute for Complexity & Innovation, **University of Waterloo**, Canada

2017 Modelling large and sampled network data, featured speaker NICO, **Northwestern University**, USA

2017 Bayesian hierarchical modelling of longitudinal networks, Plenary Lecture, **ARS'17, Napoli**, Italy.

2016 Invited lecture at A Joint Meeting of the **Fisher Trust, the Royal Statistical Society** and the **London Mathematical Society Data Science**, London, UK (also in Section 4.1)

2016 Invited speaker at 48th Meeting of the **Italian Statistical Society**, Salerno, Italy

2016 Networks in the Global World 2016, invited speaker **St. Petersburg State University**, Russia

2016 Invited lecture, RSS event on networks, **Royal Statistical Society (Applied Prob. Section)**, London, UK (also in Section 4.1)

2015 Insights from applying social network models to spatially embedded flows, The 3rd Tokyo Network Workshop, Advances in multi-disciplinary research of networks, **Waseda University**

2014 Invited talk at Advances in multi-disciplinary research of networks, **University of Tokyo**

2013 Invited talk at STATS in Paris, **ENSAE ParisTech**, Paris

2013 Invited talk on Analysing Ego-networks over time, **University of Tokyo**

2013 Invited and featured speaker, space and network dynamics, **ARS'13, Rome**

2011 What is: Social Network Analysis. **Method Festival in Tampere**, Finland

2011 Invited lecture at **Royal Statistical Society** event on social network analysis, London, UK (also in Section 4.1)

2009 Invited speaker at Statistical Methods for the Analysis of Network Data, **University College Dublin**.

2.1.7 Examination duties

2025, May	PhD Thesis committee, Neelam Modi, Northwestern
2023, June	PhD Thesis committee, Yaxin Cui, Northwestern
2023, May	MRes Thesis committee, Jie Zhuo, MRes, Macquarie University
2023, February	PhD Thesis committee (chair), Hector Rodriguez, PhD, University of Linköping
2019, December	PhD Thesis committee, Robert Krause, PhD, University of Groningen.
2017, March	Internal Assessor, Angelo Moretti, PhD in Social Statistics, University of Manchester.
2016, October	Internal Assessor, Wulung Hanandita, PhD in Applied Social research, University of Manchester.
2016, Hilary	External Assessor, Charlotte Greenan, DPhil in Statistics, University of Oxford
2014, 31 March	External Assessor ('Suffrageant'), Çilem Selin HAZIR, doctoral thesis in economics at Universite Jean Monnet Saint-Etienne
2011, Michaelmas	Assessor of the Confirmation of status for Lospinoso, Department of Statistics, University of Oxford.
2010, Michaelmas	Assessor of the Transfer of status for Lospinoso, Department of Statistics, University of Oxford
2005	Member of examination committee of Licentiate-thesis by Jessica Franzén, Department of Statistics, Stockholm University

2.1.8 Reviewing

Grants

Sept 2024	Deutsche Forschungsgemeinschaft (DFG)(German Research Foundation)
March 2022	Round NWO Open Competition SSH Social sciences 2021, Dutch Research Council, Domain Social Sciences and Humanities (SSH)
June 2014	Army Research Office (ARO): ARO Core Programs
Jan 2016	EPSRC, First Grant Scheme (Revised version 2009)

Journals

Reviewer inter alia (a selection): Annals of Applied Statistics, Psychometrika, Test, Social Networks, Journal of Social Structure, Advances in Data Analysis and Classification, Procedia, Mathematical Population Studies, Journal of the Royal Statistical Society (A and C), British Journal of Math. and Stat. Psych, Journal of Research On Adolescence, Communications in Statistics - Simulation and Computation, Industry & Innovation, Field Methods, Global Crime, Journal of the American Statistical Association

2.1.9 Academic service and leadership

Stewardship of research groups and labs

2019-2022 Director of the 'Social Networks Lab' in MSPS; current and past regular members include but is not limited to Giovanni Sadewo (postdoc); Professor Garry Robins; Tasuku Igarashi (official visitor MSPS); Lucia Falzon (DST fellow and Honourary Fellow MSPS); Jonathan Haris Januar (Honours student; now PhD student); Pip Pattison (emeritus); Yoshi Kashima (Prof); Elle Pattenden (PhD student); Colin Gallagher (MSPGH); Andre Gygax (MBS); Catherine Earby (Honours); Floyd Creevey (PhD student, Optima); Vanessa Ferdinand (research fellow, CHDH); Glenn Hoetker (Prof, MBS); Vera Somers (Research fellow, Optima); Trisna Fraser (PhD student); Chiara Brocatelli (Research fellow, UQ). Under my directorship, the lab also managed to arrange for and secure funding for the academic visitors Pete Jones (official visitor Sept-Dec 2019; fully funded by RSF and DST group); Nikita Basov (official visitor 2019, Aug); Christian Steglich (official visitor November-December, 2019; full funded by MSPS) `https://psychologicalsciences.unimelb.edu.au/research/msps-research-groups/Social_Networks_Laboratory`

2019-2022 Director of Melbourne node of the MelNet consortium `http://www.melnet.org.au/`

2015-2019 Lead of the Statistical Modelling Group (SMOG) in the Social Statistics Department, University of Manchester. Duties involved promoting research activities in statistical modelling, capacity building for PhD students and ECR, through arranging training and seminars and inward-, and outward-facing promotion of SMOG.

2009-2012 Co-convenor of the Statistical network modelling group seminar series, Nuffield College.

2009-2012 Co-convenor of termly Statistics Question and Answer session (with T.A.B., Snijders, K. Gile, and Sir David Cox), Nuffield College.

Committees

2025- Associate editor, Scandinavian Journal of Statistics

2025 Member of INSNA Election Committee

2024 Member of INSNA Simmel Award Committee

2024- Director on the board of INSNA

2023-2024 INSNA Advisory Board for the 2024 International Sunbelt Social Network Conference

2023 Committee Chair INSNA William D. Richards, Jr. Software Award

2022 Committee member INSNA Simmel Award

2020-2021 Scientific committee for joint International Sunbelt Social Network Conference and Network Science conference, Washington DC

2018 Programme committee Seventh Conference on Complex Networks and their Applications, Cambridge UK, December 11- 13, 2018.

Conference organisation

2019-2022 Sunbelt 2022 organising committee. On the original organising committee that successfully applied to host Sunbelt. When team enlarged, mainly responsible for Programming and scheduling, Time-zone management, Scientific committee, Hybrid format (together with Prof Rob Ackland), Environmental policy (with Colin Gallagher) and website `https://www.sunbelt2022.org/environmental-impact`, as well as floating overall responsibility (volunteers, time of year, etc).

2021 Organising committee the 2021 Australian Social Network Analysis Conference (ASNAC), Melbourne

2016 Organiser and chair of invited session: 'Statistical Analysis of Social Networks,' RSS 2016, Manchester, Sept.

2016 Co-organiser and chair of invited session: 'Session 225 STS: Methodological and computational advances for complex network systems' at International Society for Bayesian Analysis, Sardinia, June

2010 Multilevel Network Modelling Group, Università della Svizzera italiana, Lugano (together with Eric Quintane), Sept.

2009 Main Organiser of the Workshop Statistical Network Modelling, Nuffield College, November

Administrative positions: Departmental

2024	Hiring committee for Adjunkt in Statistics, Stockholm University
2024	PhD hiring committee, Department of Statistics, Stockholm University
2024	Ordinary member of the board of Post-graduate teaching and Research, Department of Statistics, Stockholm University
2024	Ordinary member of the Departmental board, Department of Statistics, Stockholm University
2023	PhD hiring committee, Department of Statistics, Stockholm University
2021-2022	Board of Human Ethics Low and Negligible Risk, University of Melbourne
2020-2022	Chair of PhD committee for committee Claudia Oke, Alice Mullins, Sevil Ince, and Eliza Honybun, Melbourne School of Psychological Sciences, the University of Melbourne
2019-2022	Chair of PhD committee for committee Will Liheng Xu Melbourne School of Psychological Sciences, the University of Melbourne
2019-2021	Member of Human Ethics review board at Melbourne School of Psychological Sciences, the University of Melbourne
2018 (March)	Hiring committee for post-doctoral fellowship in Social Networks, University of Manchester
2014-2019	Exams officer for the Social Statistics Discipline Area. Main tasks involve coordinating UG and PGT preparation and marking of assessment, in the absence of a formal UG programme board for the DA, University of Manchester.
2013 (Jan)	Hiring committee for Permanent Lectureship in Social Statistics, University of Manchester
2013 (Nov)	Hiring committee for Permanent Lectureship in Social Statistics, University of Manchester
2012 (May)	Hiring committee for Temporary Lectureship in Social Statistics, University of Manchester
2013-2019	Academic Advisor in BA Econ program University of Manchester (Mandatory service)
2003-2004	Graduate student representative on the board of the Department of Statistics, Stockholm University

Administrative positions: External

2022- Dissertation committee of Neelam Modi, Northwestern University

2014- 2017 Director of Methods Northwest (MNW). Initiated work on integrating institutional training provision in joint online portal as part of implementing new strategic vision for MNW role in doctoral training partnership (DTP) (as set out in MNW memorandum 2015). Secured MNW representation on DTP board and formalised role with respect to TEKE panel. Initiated interfacing of UG Q-step programme with PGR

2013-2017 Social Statistics institutional Pathway lead North West Doctoral Training Centre (NWDTC). Information meetings; pro-actively promoting supervisor engagement. Identified potential CASE studentship partnerships (from no applications in 2013, the numbers in subsequent years were 1 and 2 respectively). Setting up of a committee with Q-step director and Social Statistics UG director to develop procedures for feeding Q-step students through to PGT and PGR to aim to satisfy ESRC anticipation of 50:50 split between 1+3 and +3 studentships in new DTP

2013-2017 Social Statistics overall Pathway lead North West Doctoral Training Centre (NWDTC). Lead bid for pathway in DTP. Dedicated work on meeting ESRC expectation of 30% CASE studentships (resulting in an increase in CASE applications from two in 2013, to three in 2014, and four in 2015). In the 2015/16 round CASE studentships account for at least 33% of pathway studentships (assuming not all 8 standard studentship applications are successful, the proportion of CASE would be higher)

2013-2017 Chair NWDTC AQM subcommittee. Reforming adherence to criteria, changed forms, program of disentangling excessive co-branding to align training provision with ESRC guidelines

Memberships of academic and professional bodies

2017- INCIS, The Collaboration for Research on Illicit Networks, Criminal Intelligence and Security

2010-2014 The Multilevel Network Modelling Group (MNMG) funded by the Leverhulme Trust, under the International Collaborative Networks scheme

2001- International Network for Social Network Analysis (INSNA)

2015- International Society for Bayesian Analysis (ISBA)

2013- International Statistical Institute (ISI)

3 Teaching expertise

3.1 Teaching experience

3.1.1 Curriculum and course development

2024 Developed Multivariate Methods (ST3101), 3rd semester UG course in Statistics, Stockholm University.

2023 Developing Generalised Linear Models (ST2201,39994), 2nd semester UG course in Statistics, Stockholm University, to be given Autumn 2023 and replace ST223G, Stockholm University.

2023 Redevelopment: Multivariate Methods (ST304G), 3rd semester UG course in Statistics, Stockholm University.

2021 Lecturer, coordinator, and proposer: Computational Behavioural Science (PSYC30023). 3rd year UG course. Lead on Curriculum development, Developing a Business case, Scheduling and programming, Developing Assessments and forms of assessment, Coordination of course, Teaching and delivering a third of the course, the University of Melbourne.

2019-22 Capstone in Social Network Analysis, 3rd Year research training seminar series, the University of Melbourne.

2016 Re-development: 1st year UG module in Introductory Statistics (SOST 10062), University of Manchester, UK. I redeveloped this from the previous Statistics for Economists (ECON 10062). I convened the module, taught half of the lectures and coordinated 3 tutors (3 tutorial groups each), designed summative assessments (assignments and final multiple choice exam), and formative assessments (delivered as weekly blackboard quizzes). On average 200 students. Compulsory for BA Economics students. 10 Credit points.

2014 Course and syllabus development: 3rd year UG module in Advanced Social Network Analysis (SOST30022), University of Manchester, UK. I proposed and developed this course (including summative assessments in the form of coursework and a number of formative assessments) as an elective course for students in the School of Social Sciences but it was also open to other faculties (I had students from for example computer science, Criminology, and linguistics). On average 11 students. Elective. 20 Credit points.

2012-18 Redevelopment: Foundations of statistics (SOST70151), SRMS, CCSR and SSDA, University of Manchester, UK. I redesigned content, designed summative assessments (course-work essay and final exam) and labs

2011 Social Statistics (MATH38152), 3rd year undergraduate course in Mathematics, School of Mathematics (through Social Statistics DA), University of Manchester, UK. Taught over 12 weeks with 2 hours' of lectures and 1 hour lab each week. I designed the summative and formative assessments. 10 Credit points

3.1.2 Teaching and course convening

2024- Lecturer and coodinator: Multivariate Methods (ST3101), 3rd semester UG course in Statistics; GLM (ST2201), 2nd semester UG course in Statistics, Stockholm University.

2022-23 Lecturer and coodinator: Multivariate Methods (ST304G), 3rd semester UG course in Statistics; Econometrics (ST223G), 2nd semester UG course in Statistics, Stockholm University.

2021 Lecturer, coordinator, and proposer: Computational Behavioural Science (PSYC30023). 3rd year UG course. Coordination of course, Teaching and delivering a third of the course, the University of Melbourne

2020-21 Lecturer: Graduate Research Methods (PSYC90029). Masters course in Psychology, the University of Melbourne.

2019-22 Capstone in Social Network Analysis, 3rd Year research training seminar series, Complex Human Data Hub, the University of Melbourne.

2017-19 Lecturer and coordinator: MSc module in Social Network Analysis (SOST 71032), University of Manchester, UK. The module had an introductory part (taught by lecturers in Sociology) and a statistical part that I taught and developed. On average 15 students. Elective for MSc students in Social Statistics. In total teaching concentrated over 6 full days.

2016-19 Lecturer and coordinator: 1st year UG module in Introductory Statistics (SOST 10062), University of Manchester, UK. I redeveloped this from the previous Statistics for Economists (ECON 10062). I convened the module, taught half of the lectures and coordinated 3 tutors (3 tutorial groups each), designed summative assessments (assignments and final multiple choice exam), and formative assessments (delivered as weekly blackboard quizzes). On average 200 students. Compulsory for BA Economics students. 10 Credit points. In 2019 I taught until end of March

2014-18 Lecturer and coordinator: 3rd year UG module in Advanced Social Network Analysis (SOST30022), University of Manchester, UK. I proposed and developed this course (including summative assessments in the form of coursework and a number of formative assessments) as an elective course for students in the School of Social Sciences but it was also open to other faculties (I had students from for example computer science, Criminology, and linguistics). On average 11 students. Elective. 20 Credit points

2012-18 Delivered courses in the CCSR (now CMIST) short course programme, e.g. 'Longitudinal analysis,' 'Introduction to R.' A course typically one to three days with fee-paying students open to practitioners and academics.

2012-18 Lecturer and coordinator: Foundations of statistics (SOST70151), SRMS, CCSR and SSDA, University of Manchester, UK. I designed summative assessments (course-work essay and final exam) and labs. I coordinated 2-3 tutorial assistants. Taught over 12 weeks with one 2-hour lecture per week. In 2017 I was on sabbatical and 2016 and 2018 Half of the lectures were delivered by another lecturer. On average 31 students. Compulsory for MSc students in Social Statistics

2011-13 Lecturer and coordinator: Social Statistics (MATH38152), 3rd year undergraduate course in Mathematics, School of Mathematics (through Social Statistics DA), University of Manchester, UK. Taught over 12 weeks with 2 hours' of lectures and 1 hour lab each week. I designed the summative and formative assessments. No TA's provided. On average 70 students. In 2011 and 2012 4 and 2 lectures were given by other lecturers. Elective. 10 Credit points.

2011-13 Lectures and practicals: Multilevel analysis (SOST70292) (binary response, MCMC, mixed membership, etc). Compulsory for MSc students in Social Statistics. On average 4, 3-hour sessions in 2011-2013. Compulsory for MSc students in Social Statistics

2011-13 Lectures and practicals Advanced Survey Methods (SOST70032)(model-based sampling; Interviewer effect, etc). Compulsory for MSc students in Social Statistics. On average 4, 3-hour sessions in 2011-2013. Compulsory for MSc students in Social Statistics

2007 Lecturer and assistant teacher: Statistical Models for Social Networks (512989), Dep. of Psychology, School of Behavioural science, University of Melbourne

2007 Lecturer and assistant teacher: Introduction to Social Network Analysis (512988), Dep. of Psychology, School of Behavioural science, University of Melbourne

2005 Lecturer and coordinator: Basic course in Financial Statistics, Department of Statistics, Stockholm University

2000-05 Assistant teacher: Various courses in the undergraduate statistics program at Stockholm University, on basic, intermediate, and advanced levels: probability theory; survey techniques; descriptive statistics; Bayesian statistics; decision theory; time series

3.2 Supervision

3.2.1 Undergraduate and postgraduate supervision

2025	Stockholm University (Statistics), MSc: Elelta Yemane (2025); Nimesha Madhuwanthi (2025); BA: Eleonora Hård & Elin Mattsson (2025); Emelina Pettersson & Hanna Cederschiöld (2025); Mansi Joon Gupta & Ilke Zerman (2025)
2024	Stockholm University (Statistics), MSc: Arvid Hedebark (2024); Acke Arvidsson (2024); BA: Aya Saeed, Oscar Gustavsson, & Emil Svensson (2024); Robin Landström & Harald Österås (2024)
2023	Stockholm University (Statistics), BA: Lagerholm & Sohel Aboud.
2023	Stockholm University (Statistics), MSc: Tea Unnebäck (2023); Malin Mattiasson (2023).
2022	Stockholm University (Statistics), BA: Jonasson & Lilja; Nasra & Hedberg.
2020-21	University of Melbourne, Supervision 4th year Honours projects: 'Mental health in bushfire-affected communities in Australia' (Januar, 2020); 'How International Students' Social Networks Effect their Cross-Cultural Adjustment' (Earby, 2021)
2011-2018	University of Manchester (Social Statistics), MSc: Clark (2018); Vartanyan (2017); Watson, Gainsborough, Fenton (2015); Duran, Minas (2014); Williamson, Owen, Coulthurst (2013); Bayliss (2012); Podetti, Moreno (2011).
2010	University of Oxford (Statistics), MSc: Xie (2010)
2005	Stockholm University (Statistics), 'Magister' (D): Soukkan (2005)

3.2.2 PhD supervision

2021-2026 Jonathan Januar, 'Missing data mechanisms in covert networks, University of Melbourne,' Funded by Grant W911NF-21-1-0335 for Proposal 79034-NS. Primary Supervisor

2020-2021 Manchester-Melbourne GOLDEN scheme, (student withdrawn), Primary Melbourne Supervisor, joint supervision with Manchester's Mitchell Centre for Social Network analysis.

2016-2019 Pete Jones, 'Analysing the Bechdel test and dialogic gender bias in film through social network analysis,' defended Viva 12 Feb 2020. Funded by School Scholarship. Primary Supervisor. University of Manchester

2016-2020 Ella Guest, 'Bridging the Interest Divide: Do Brokerage and Information Diffusion Increase Community Cohesion on Reddit?' Funded by English Social Research Council (ESRC), Primary supervisor until March 2019. University of Manchester

2015-2018 S. Thestrup, 'Integration through deliberation,' funded by ESRC/Uni Manchester, viva 21 May (awarded 2021). Primary Supervisor. University of Manchester

2014-2018 J. Watson, 'Uncovering the Structure of Underground Punk Music Networks in the UK using Statistical Models.' Funded by ESRC with Advanced Quantitativ Models (AQM) top-up stipend. Thesis defended: Nov 4 2019. Primary Supervisor. University of Manchester

2013-2016 C. Broccatelli, 'Covert Social Networks,' Funded by Leverhulme. Awarded March 2017. Second supervisor (Primary: Martin Everett). University of Manchester

2013-2016 Ana Ivon Moralez Gomez, 'Individual and Structural Factors Affecting Recidivism: The Role of Prisoners, Prisons and Places in the Chilean Context,' funded by Chilean Department of Education. Awarded Feb 2018. Primary supervisor. University of Manchester

2012-2017 J. Prattley, 'Older worker exit transitions from employment in a recessionary era,' Funded by ESRC with AQM top-up stipend. Awarded; viva 12 Sept 2016. Second supervisor (Primary: Tarani Chandola). University of Manchester

2010-2014 J.P. Sanchez, 'Measurement Error in Retrospective Data,' funded by ESRC Awarded; viva 29 July 2014. Second Supervisor (Primary: Ian Plewis). University of Manchester

3.2.3 Pedagogical training

2025 Professional development 1, Teaching and Learning, SU (7.5CET)

2015 Higher Education Academy (HEA) Fellow.

2015 Humanities New Academics Programme (roughly equivalent to 15 credit points), University of Manchester

1994 Leadership and pedagogical training, Marinens Sjukvårsskola, Göteborg

1992 4th year Leadership and teaching training, Sjövärnskåren, Berga

4 Knowledge transfer

4.1 Professional advisory work and consultancy

2019-2022 Scientific Advisory Board Member for the longitudinal study Ten-to-Men, Australian Institute for Family Studies (AIFS).

2018 Programme committee Seventh Conference on Complex Networks and their Applications, Cambridge UK

2013-2019 Advisory board Research centre for educational and network studies Corvinus University of Budapest (RECENS)

Dec 2019 Site-visit and briefing about CVE and Networks, Defence Science and Technology, SA

Feb 2016 Bayesian data-augmentation for estimation of ERGM for partially observed multi-layered network, Royal Statistical SocietyRSS event on networks, London, UK [available from the RSS youtube channel `https://youtu.be/fesUOiNuz6w`]

Mar 2011 Recent advances in Exponential Random Graph Modelling (ERGM) and inference, Royal Statistical Society, RSS event on social network analysis, London, UK [available on the RSS youtube channel `https://youtu.be/Cu0spWL3c3E`]

Apr 2017 Two-day on-site consultancy and collaborative workshop with criminal intelligence, CISA, Edmonton, Canada

Apr 2017 Three-day on-site consultancy on networks of young men who have sex with men, Northwestern University, Feinberg School of Medicine, Chicago, IL (fully paid for, NIH R01 DA025548 (PIs: Mustanski & Garofalo); NIH R01 DA025548-S1 (PI: Mustanski); NIH R03 DADA033906 (PI: Birkett))

2006-2011 Defence Science and Technology Organisation (DSTO), Australia. 2 Reports and 4 papers delivered. Ca 10 on-site (Edinburg, SA) consultation sessions

2012-2017 Redowl Analytics, Baltimore, US. Relational event modelling and inference for email and transaction data. Advisory board & consultancy work on location in Baltimore 3 times

Nov 2008 Methodological implications of missing data in social network analysis - recent findings and future challenges, Connections Talk, DSTO, Edinburgh, South Australia.

4.2 Extramural and external teaching and training (design and delivery)

Mar 2026	Statistical Network Analysis (2 days), Complex Human Data Hub, University of Melbourne, Australia
June 2025	Introduction to the analysis of multilevel network dynamics using multiSiena, (half-day) INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.
June 2025	Introduction to Bayesian estimation of Auto-logistic actor attribute models (ALAAM) in R, (half-day) INSNAXLV international social networks conference June 2025 at The Sorbonne, Paris, France.
Feb 2025	Statistical Network Analysis (3 days), Complex Human Data Hub, University of Melbourne, Australia
Oct 2024	Analysing social influence with cross-sectional network data , NCRM short-course, Glasgow, UL.
Feb 2024	Statistical Network Analysis (3 days), Complex Human Data Hub, University of Melbourne, Australia
Feb 2023	Statistical Network Analysis (3 days), Complex Human Data Hub, University of Melbourne, Australia
Dec 2020	Hands-on introduction to SAOMs for newbies, ASNAC 2020 Perth, Australia
Dec 2020	A review of advanced use of SAOM, ASNAC 2020 Perth, Australia
Dec 2019	Relational Event Models - An Introduction to Survival Modelling of Relational Data and Time-Stamped Networks. University of Melbourne
Nov 2019	Introduction to SAOM, Flinders University, Australia
Nov 2019	Current developments for SAOM, Flinders University, Australia
July 2017	Statistical modelling of social networks, St. Petersburg Summer School on Network Analysis, St. Petersburg State University, Russia
July 2016	Network dependencies in social space, geographical space, and temporal space, Networks in the Global World 2016, St. Petersburg State University, Russia
Sept 2015	Introduction to Exponential Random Graph Models (ERGM) (3 Days), ECAS Course 2015, Haus der bayerischen Landwirtschaft Herrsching, Luddwig-Maximilians Universität, Munich

July 2015	An outlook on modeling the dynamics of spatially embedded social networks, Interdisciplinary Summer School 'Network Analysis of European Urban Landscapes: Communities, Spaces and Meanings,' St. Petersburg, Russia
2015-18	Advanced methods for social network analysis (3-5 days), University of Manchester Methods Summer School, July 2015,2016,2017, and 2018
July 2014	Advanced SNA (5 days), University of Manchester Methods Summer School
Aug 2013	RSiena, ASNA, University of Zurich
June 2013	Networks in space and time: Stochastic Actor-oriented Models in RSiena, ARS'13 Rome
June 2013	Advanced SNA (5 days), University of Manchester Methods Summer School
May 2013	Exponential Random Graph Models for Social Networks, Using PNet, Sunbelt XXXIII, International Social Network Conference, Hamburg
May 2013	What creates a network (2 days), and why does it look like it does? Stockholm Resilience Centre, Stockholm University, Stockholm
April 2013	ERGM, NET-WORK-SHOP IV, Network Dynamics: Recent developments, Hungarian Academy of Sciences, Budapest
Sept 2012	An introduction to Stochastic Actor Oriented Models, ASNA, The University of Zurich and ETH
June 2012	An introduction to exponential random graph models (ERGM), the 8th UK Social Network Conference, Bristol
Dec 2011	An Introduction to the Analysis of Longitudinal Social Network Data using RSiena, Department of Psychology, University of Melbourne, Australia
Sept 2011	The Analysis of Longitudinal Social Network Data using SIENA, ASNA, The University of Zurich and ETH
August 2011	Statistical Social Network Analysis, Method Festival in Tampere, Finland
July 2011	An introduction to exponential random graph models (ERGM), the 7th UK Social Network Conference, University of Greenwich, UK
May 2011	Statistical Social Network Analysis, the 2011 American Sociological Association Spring Methodology Conference, Tilburg, the Netherlands
April 2011	Social Network Analysis 3: Statistical Analysis of Social Networks (3 days), Mitchell center for Social Network analysis and CCSR, University of Manchester, UK
Sept 2010	The Analysis of Longitudinal Social Network Data using SIENA, ASNA, The University of Zurich and ETH
June 2010	Invited Coordinator and Lecturer: Statistical Models for Social Networks, School of Social Science, University of Manchester, UK
Jan 2009	Invited Coordinator and Lecturer: Social Network Analysis, Cathie Marsh Centre for Census and Survey Research, University of Manchester, UK
June 2008	Lecturer and assistant teacher: Workshop on theories and methods for understanding human social networks, Dep. of Psychology

4.3 Invitation-only extramural workshops and meetings

2020	Co-organiser of multi-agency (Victoria Department of Justice, Defence Science and Technology Group, Department of Home Affairs, Australian Federal Police, etc) workshop on Pathways to radicalisation, hosted at DSTG
2019 - 2021	Scientific Advisory meetings for Ten-To-Men, Australian Institute for Family Studies, Occasional
2019	Koskinen, Crime and Networks Workshop – a workshop for academics, criminal intelligence, and law enforcement, Deakin CBD, Melbourne
2018	Stys., Koskinen [presenter], Pot and the World's Oldest Profession: Illicit Networks of Most Unlikely Co-Offenders in Eastern DR Congo, invited speaker at 10th Illicit Networks Workshop, SEATAC, Seattle, Nov 2018
2017	Brokering Between Overt and Covert Networks in Conflict Zones, 9th Illicit Networks Workshop, Flinders University, Australia, 11 December – 13 December (jointly presented by Stys, P. and Koskinen, J)
2017	Competition and Collaboration in Multilevel Organized Criminal Networks (with Coutinho [pres.], Bright, D., and Wright, A.), 9th Illicit Networks Workshop, Adelaide, Australia (accommodation, meals, fees)
2016	Sticking together under covertness (presented by Broccatelli), 8th Illicit Networks Workshop, London
2015	MERGM for Partially Observed Covert Networks, 7th Illicit Networks Workshop, Montreal, (Canada)

4.4 Software development

CRAN

- Bayesian estimation for stochastic actor-oriented models, `RSiena` (based on [74])
- Maximum likelihood estimation for stochastic actor-oriented models, `RSiena` (based on [65])
- Estimation for Multilevel stochastic actor-oriented models, `RSiena` [14]
- Modelling evolution of bipartite networks, `RSiena` (based on [61])

Stand-alone graphical user-interface statistical packages for network analysis

- Approximate Bayesian goodness-of-fit for ERGMS, `PNet` (based on [77, 64])
- Bayesian estimation for ERGMS, (new .net version `MPNet` of) `PNet` (based on [77, 64, 69])
- Bayesian estimation for ERGMS with missing data, (new .net version `MPNet` of) PNet (based on [64, 56])
- Estimation of Longitudinal network data using Longitudinal ERGM (`LPNet`)(based on [59, 54])

- Outlier analysis in ERGMs (in `MPNet`) ERGM (based on [37])

GitHub

- Outlier analysis in ERGMs (in `MPNet`) ERGM (based on [37])
- Bayesian Hierarchical ERGM (following [8]) has been made available on GitHub and vignettes for usage will be posted on the MelNet resources web page.
- Bayes ALAAM (following [17]) has been made available on GitHub as `balaam` and is used in NSF, Beyond Bushfires, Welcome Trust projects. Noshir Contractor has volunteered his centre's programming resources to transition the code from GitHub to CRAN.
- Multiple rater ERGM (following Koskinen, Marcum, Christopholus, and Sohn, 2019). in the process of being added to GitHub Bayesian estimation for large networks using component decomposition (in the process of being added to GitHub).