

Curriculum vitae of Tom A. B. Snijders

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Address Dept. of Sociology
University of Groningen
Grote Rozenstraat 31
9712 TG Groningen
The Netherlands

Email tom.snijders “at” nuffield.ox.ac.uk
T.A.B.Snijders “at” rug.nl
web-page <http://www.stats.ox.ac.uk/~snijders/>

Birth September 26, 1949 in Tilburg (The Netherlands)

Nationality Netherlands

Academic Degrees

June 1973 M.Sc. in Mathematics, specializing in Mathematical Statistics, University of Groningen (cum laude awarded).
May 4, 1979 Ph.D. in Mathematics, specializing in Mathematical Statistics, University of Groningen (cum laude awarded). Ph.D. Thesis *Asymptotic optimality theory for testing problems with restricted alternatives*. Ph.D. supervisor prof.dr. W. Schaafsma.
Sept 30, 2005 Honorary doctorate in the Social Sciences, University of Stockholm.
Dec 16, 2011 Honorary doctorate, Université Paris-Dauphine.

Academic Positions

1972 - 1973 Teaching Assistant, Dept. of Mathematics, University of Groningen.
1973 - 1981 Assistant professor, Dept. of Mathematics, University of Groningen.
1981 - 1984 Research associate, Dept. of Econometrics, University of Groningen (research project *AGRISK* on risks in agriculture in West Africa).
1985 - 1986 Assistant professor, later associate professor of Applied Statistics at the Dept. of Econometrics, University of Groningen.
1986 - 1992 Associate professor at the Dept. of Statistics and Measurement Theory (Faculty of Social and Behavioral Sciences), University of Groningen (half-time during 1989-1992).
1989 - 1992 Professor of Mathematical Sociology at the Dept. of Empirical Theoretical Sociology, University of Utrecht (half-time).
1992 - 2002 Professor of Stochastic Models for the Social and Behavioral Sciences at the Dept. of Statistics and Measurement Theory (Faculty of Social and Behavioral Sciences), University of Groningen.
May 2000 Visiting professor, Department of Sociology, Université de Lille - 1.
2001-2005 Honorary Senior Fellow in the School of Behavioural Sciences (Dept. of Psychology) at the University of Melbourne.
From 2002 Professor of Methodology and Statistics at the Dept. of Sociology, University of Groningen (Oct. 2006-Sept. 2014 part-time: 0.2 fte; since Oct. 2014: honorary

	professor)
2006-2014	Chair of Statistics in the Social Sciences, University of Oxford; Professorial Fellow of Nuffield College. (0.6 fte)
April 2008	Visiting professor, Faculté Jean Monnet, Université de Paris-Sud
2008-2018	Honorary appointment as Professorial Fellow, School of Behavioural Sciences, University of Melbourne
2008-2009	Belgian Francqui Chair, University of Leuven (honorary professorship)
From 2014	Emeritus Fellow of Nuffield College, Oxford; associate member of Department of Statistic, University of Oxford

Keywords for main current research interests

Statistical methods for social networks; multilevel research/random coefficient models; mathematical sociology; item response theory.

Brief review of main professional interests

Research activities of Tom A.B. Snijders have since 1989 been conducted within the Inter-university Center for Social Science Theory and Methodology (*ICS*), since 2006 also at the University of Oxford. His main interests are research and teaching, combined with consultation, in applied statistics for the social and behavioral sciences; and mathematical modeling in the social sciences, with a special focus on social networks and rational choice models. More specific domains of interest are social network analysis, multi-level research, item response theory, and mathematical sociology; and the development of data analysis methods that reflect as much as possible the theoretical insights into the phenomenon under study. A major aspect of this work is the development of new statistical methods for social science applications, often in combination with the development of computer software to implement these methods; another aspect is the innovative application of statistical methods in close cooperation with sociological, psychological, or educational researchers. Snijders developed several specialized statistical computer programs which are available from his web page. The most elaborate of these is *Siena*, (*Simulation Investigation for Empirical Network Analysis*), a methodology for analysing longitudinal social network data implemented in the *R* package *RSiena*.

Overview of teaching experience

1973 - 1981	At the Department of Mathematics, University of Groningen: Courses in Introduction to Statistics, Mathematical Statistics, Non-parametric Statistics, Asymptotic Methods in Statistics, Linear Algebra.
1985 - 1986	At the Department of Econometrics, University of Groningen: Courses in Probability Theory, Sampling Theory, Statistical Quality Control.
1989 - 1992	At the Department of Sociology, University of Utrecht: Courses in Mathematical Sociology, Scaling Theory
1986 - 2002	At the Department of Statistics and Measurement Theory, University of Groningen: Courses in Analysis of Variance, Introduction to Probability Theory, Inferential Statistics, Advanced Statistics, Multilevel Analysis, Social Network Analysis.
1989 - 2006	In the <i>ICS</i> : coordination of Course on Advanced Methods and Techniques of Empirical Research.
2002 - 2006	At the Department of Sociology, University of Groningen: course in Inferential Statistics, Social Network Analysis, and Multilevel Analysis.
from 2007	Various courses at the Department of Statistics and the Department of Politics and International Relations at the University of Oxford.

- incidental Various specialized workshops and courses on Repeated Measures, Logistic Regression, Social Network Analysis, Multilevel Analysis (among others, in Atlanta, Berlin, Cologne, Florence, Harvard, Lawrence KS, Leuven, Lund, Mannheim, Oxford, Tilburg, and Vienna), and Stochastic Actor-Oriented models (among others, at Sunbelt and European Social Networks Conferences, in Oxford, in Cologne, at the University of Kansas and at Yale, in Manchester and St. Petersburg).
- 2006 and 2011 Scientific Organiser of QMSS and QMSS-2 Summer Schools on Network Dynamics, taking place in Groningen.

Honours – elected memberships

- 1999 Elected Member of the International Statistical Institute.
- Sept 30, 2005 Honorary doctorate in the Social Sciences, University of Stockholm.
- 2006 Elected Member of the European Academy of Sociology.
- 2007 Elected Correspondent of the Royal Netherlands Academy of Arts and Sciences.
- 2008 Fellow of the Royal Statistical Society
- 2008 Order of Knight of the Netherlands Lion (“*Ridder in de Orde van de Nederlandse Leeuw*”)
- 2010 Georg Simmel award, International Network for Social Network Analysis, associated with keynote lecture at the Sunbelt Social Networks Conference
- Dec 16, 2011 Honorary doctorate, University of Paris-Dauphine
- 2012 *i2* citation award, International Network for Social Network Analysis, for the most cited paper in an INSNA publication, for a paper co-authored with Garry Robins, Peng Wang, Mark Handcock, and Pip Pattison.
- 2017 INSNA William D Richards Award. This is a lifetime achievement award for publically available social network analysis software, granted by the International Network for Social Network Analysis to Tom Snijders and Christian Steglich.

Main academic organisational functions

- 1978 - 1981 Member, later chairman of the Committee on Education of the Department of Mathematics.
- 1982 - 1985 Chairman of the Interdisciplinary Research Group *AGRISK* on risks in agriculture in West Africa.
- 1989 - 2002 Member of the Board of the Inter-university Center for Social Science Theory and Methodology (*ICS*).
- 1989 - 1999 Member of the Advisory Board of *ProGAMMA*, an Inter-university Center of Expertise for the development and promotion of innovative computer applications in the social sciences.
- 1990 - 1996 Member of the Daily Board, later chairman, of *SoMO*, later called *NOSMO*, the Dutch Organisation for Social Science Methodological Research.
- 1993 - 2005 Chairman of the *SoMO / NOSMO* research group on Multilevel Analysis.
- 1997 - 2000 Chairman of the Department of Statistics, Measurement Theory, and Information Technology of the University of Groningen.
- 1997 - 2001 Chairman of the Faculty Council of the Faculty of Social and Behavioral Sciences.
- 2000 - 2002 Chairman of the "Basiseenheid Psychologie Algemeen" at the University of Groningen.
- 2002 - 2006 Scientific Director of the Inter-university Center for Social Science Theory and Methodology (*ICS*).
- 2002 - 2006 Director for Research of the Department of Sociology of the University of Groningen.

- 2005 - 2012 Member of Follow-Up Committee, *Interuniversity Attraction Pole Statistical techniques and modeling for complex substantive questions with complex data*, Belgium.
- 2005- 2014 Member of Scientific Advisory Council, *Netherlands Kinship Panel Study*.
- 2009 - 2015 Member of Editorial Council, *Psychometrika*.
- 2010 - 2012 Member of *OECD Global Science Forum Experts Group for the Global Initiative on Data and Research Infrastructure for the Social Sciences*.
- 2011 - 2014 Information Systems Fellow, Nuffield College.
- 2013 - Member of Conseil Scientifique, Laboratoire d'Excellence *Structuration des Mondes Sociaux*, Toulouse.
- 2016 - Member of Scientific Council, *Institute for Advanced Studies*, Toulouse.

Main editorial functions

- 1983 - 1986 Associate editor, *Kwantitatieve Methoden*
- 1986 - 1990 Editor, *Statistica Neerlandica*
- 1992 - 2004 Associate Editor, *Journal of Educational and Behavioral Statistics*.
- 1992 - 1994 International Consulting Editor, *American Journal of Sociology*.
- 1997 - 2002 Contributing Editor, *Current Index to Statistics*.
- 1999 - 2004 Associate Editor, *Psychometrika*.
- 1999 - 2007 Associate Editor, *Journal of Social Structure*.
- 2003 - 2006 and again from 2011 Associate Editor, *Social Networks*.
- 2006 - 2011 Co-editor, *Social Networks*.
- since 2004 Member Editorial Board, *Methodology*.
- since 2006 Associate Editor, *Annals of Applied Statistics*.
- since 2007 Member Editorial Board, *Journal of Social Structure*.
- since 2012 Member Editorial Board of the *Statistics in the Social and Behavioral Sciences Series* of Chapman & Hall/CRC.

Conference organization

(only activities that involved considerable responsibility – more than refereeing or organising a session)

- February 1992 Organisation of the *International Workshop on Snowball Sampling and Related Ascending Methodologies* (Groningen).
- November 1993 Organisation of *SoMO Research Day on Multi-level analysis for social networks*, (Amsterdam).
- November 1995 Chairman of the Program Committee of the *Symposium Statistical Software* (Utrecht) about Software for Random Coefficient Models.
- April 1997 Organisation of the *International Conference on Multilevel Analysis* in Amsterdam.
- April 1997 Co-organisation of Miniconference *Simulation of networks through time* (Groningen).
- May 1998 Co-organisation of the *Sunbelt XVIII and 5th European International Conference on Social Networks* (Sitges, Spain).
- March-April 1999 Co-organisation of the *Second International Amsterdam Conference on Multilevel Analysis*.
- March 2000 Co-organisation of *International Workshop on Snowball Sampling* (Maastricht).
- April 2001 Co-organisation of the *Third International Amsterdam Conference on*

- Multilevel Analysis.*
- April 2001 Member of the Programme Committee of the *Sunbelt XXI and 6th European International Conference on Social Networks* (Budapest).
- April 2003 Co-organisation of the *Fourth International Amsterdam Conference on Multilevel Analysis.*
- May 2004 Symposium *Dynamics of Networks and Behavior*, organized as Satellite Symposium to the *Sunbelt XXIV and 6th European International Conference on Social Networks* (Piran, Slovenia).
- April 2005 Co-organisation of the *Fifth International Amsterdam Conference on Multilevel Analysis.*
- September 2006 Organization of the QMSS workshop and symposium *Networks and Behavior: Statistical Models and Advances in the Theory of Action* (jointly with Emmanuel Lazega).
- 2007 - 2014 Co-organization of the *Nuffield-OII seminar on Social Network Analysis.*
- November 2009 *Statistical Network Modeling.* Workshop in Oxford, organized by Nuffield College and ReMiSS.
- April 2011 First *Advanced Siena Users' Meeting (AdSUM 2011)*. Konstanz, April 6-8. Organized jointly with Ulrik Brandes and Natalie Indlekofer.
- September 2011 Organization of the QMSS-2 summer school *Networks Dynamics using RSiena* (organized jointly with Ulrik Brandes and Christian Steglich).
- March 2012 Second *Advanced Siena Users' Meeting (AdSUM 2012)*. Tempe AZ, March 11-12. Organized jointly with David Schaefer.
- February 2016 Third *Advanced Siena Users' Meeting (AdSUM 2016)*. Zürich, February 19-20. Organized jointly with Christian Steglich, Christoph Stadtfeld, and Per Block.
- February 2017 *Dynamics of multilevel social network analysis in practice.* Workshop at Sciences Po, Paris, February 27 – March 1, organized jointly with Emmanuel Lazega.

Reviews for scientific periodicals

Reviews for (inter alia): *Advances in Data Analysis and Classification*, *American Journal of Political Science*, *American Journal of Sociology*, *American Sociological Review*, *Annals of Applied Statistics*, *Annals of Statistics*, *Applied Psychological Measurement*, *Assessment*, *Behavior Research Methods*, *Behavioral Ecology and Sociobiology*, *BioInformatics*, *Biometrika*, *BMC Pediatrics*, *British Journal of Management*, *British Journal of Mathematical and Statistical Psychology*, *Child Development*, *Computational Economics*, *Computational Statistics*, *Computational Statistics and Data Analysis*, *Criminology*, *Developmental Psychology*, *Educational Research and Evaluation*, *Electoral Studies*, *European Journal of Operational Research*, *European Sociological Review*, *Field Methods*, *International Journal of Health Sciences*, *Journal of Abnormal Psychology*, *Journal of Agricultural, Biological and Environmental Statistics*, *Journal of the American Statistical Association*, *Journal of Applied Statistics*, *Journal of Classification*, *Journal of Climate*, *Journal of Computational and Graphical Statistics*, *Journal of Computer-mediated Communication*, *Journal of Conflict Resolution*, *Journal of Econometrics*, *Journal of Educational and Behavioral Statistics*, *Journal of European Public Policy*, *Journal of Family Psychology*, *Journal of International Business Studies*, *Journal of Mathematical Psychology*, *Journal of Mathematical Sociology*, *Journal of Multivariate Analysis*, *Journal of Official Statistics*, *Journal of Organizational Behavior*, *Journal of Peace Research*, *Journal of Urban Affairs*, *Kwantitatieve Methoden*, *Library & Information Science Research*, *Management Science*, *Methodological Innovations*, *Methodology*, *Methods in Ecology and Evolution*, *Metodološki Zvezki*, *Netherlands' Journal of Social*

Sciences, Network Science, Mathematical Biosciences and Engineering, Organizational Research Methods, Organization Science, Pediatrics, PLoS One, Policy Studies Journal, Proceedings of the National Academy of Sciences, Psychological Methods, Psychometrika, Physical Reviews E, Public Administration, Regional Studies, Revue Hydrologie Continentale, Royal Statistical Society, School Effectiveness and School Improvement, Science, Scientometrics, Social Forces, Social Network Analysis and Mining, Social Networks, Social Science and Medicine, Sociological Methodology, Sociological Methods and Research, Sociology of Education, Statistica Neerlandica, Statistics and Decisions, Statistics in Medicine, Student, Theoretical Population Biology, World Development.

Reviews for scientific institutions

Reviews for: Austrian Science Fund (FWF), Economic and Social Research Council, European Science Foundation, Koninklijke Nederlandse Academie voor Wetenschappen, Nederlandse Organisatie voor Wetenschappelijk Onderzoek, National Science Foundation, Deutsche Forschungs Gemeinschaft, Swiss National Science Foundation, and others.

Ph.D. supervision

63. Nynke Niezink, *Modeling the Dynamics of Networks and Continuous Behavior*. University of Groningen, May 28, 2018. (Promotor T.A.B. Snijders, copromotor M.A.J. van Duijn; cum laude).
62. Charlotte Greenan, *Evolving Social Network Analysis: developments in statistical methodology for dynamic stochastic actor-oriented models*. University of Oxford, May, 2016. (Promotor T.A.B. Snijders).
61. Eli Grant, *Network Analysis for Social Programme Evaluation*. University of Oxford, March, 2016. (Promotores P. Montgomery and T.A.B. Snijders).
60. András Vörös, *The Emergence of Multiple Status Systems in Adolescent Communities: A multiplex network theory of group formation*. University of Oxford, March, 2016. (Promotores T.A.B. Snijders and C. Monden).
59. Zsófia Boda, *Friendship based on race or race based on friendship?* University of Oxford, January, 2016. (Promotores T.A.B. Snijders and J. Jonsson).
58. Per Block, *A Situational Understanding of Friendship Networks*, University of Oxford, December, 2014. (Promotor T.A.B. Snijders).
57. G.E. Huitsing, *A social network perspective on bullying*, Rijksuniversiteit Groningen, December 4, 2014. (Promotores D.R. Veenstra and T.A.B. Snijders, copromotor M.A.J. van Duijn).
56. Janke Kappenburg – ten Holt, *A comparison between factor analysis and item response theory modelling in scale analysis*, Rijksuniversiteit Groningen, June 23, 2014. (Promotor T.A.B. Snijders, copromotores A. Boomsma and M.A.J. van Duijn).
55. Josh Lospinoso, *Statistical Models for Social Network Dynamics*, University of Oxford, October, 2012. (Promotor T.A.B. Snijders).
54. R.P. van der Horst, *Network effects on treatment results in a closed forensic psychiatric setting*, Rijksuniversiteit Groningen, November 7, 2011. (Promotores T.A.B. Snijders and B. Völker, copromotor M. Spreen).
53. M.C. de Klepper, *Dynamics of intra-organizational networks*, Vrije Universiteit Amsterdam, October 28, 2011. (Promotores P. Groenewegen and T.A.B. Snijders, copromotor G.G. van de Bunt).
52. L.A.G. Mercken, *Influence or selection. Dynamics of friendship networks and smoking behavior in adolescence*, Universiteit Maastricht, November 20, 2009. (Promotores H. de Vries and T.A.B. Snijders, copromotor M. Candel, cum laude).

51. O. Mogapi, *A latent partial order model for social networks*, University of Oxford, 2009. (Promotor T.A.B. Snijders).
50. R.E. Stewart, *A multilevel perspective of patients and general practitioners*, RUG, March 25, 2009. (Promotores B. Meyboom- de Jong, T.A.B. Snijders, F.M. Haaijer-Ruskamp)
49. B.J.H. Zijlstra, *Random effects models for directed graphs with covariates*, RUG, September 11, 2008. (Promotor T.A.B. Snijders, copromotor M.A.J. van Duijn). Winner of the 2009 Psychometric Society Dissertation Award.
48. A. Knecht, *Friendship selection and friends' influence. Dynamics of networks and actor attributes in early adolescence*, UU, January 18, 2008. (Promotores W. Raub and T.A.B. Snijders, copromotores C. Baerveldt and C.E.G. Steglich)
47. I. Back, *Commitment and Evolution. Connecting emotion and reason in long-term relationships*, RUG, September 17, 2007. (Promotor T.A.B. Snijders, copromotores A. Flache and H. de Vos)
46. M. Schweinberger, *Statistical methods for studying the evolution of networks and behavior*, RUG, May 21, 2007. (Promotor T.A.B. Snijders)
45. H.E. Elzen, *Self-management for chronically ill older people*, RUG, November 8, 2006. (Promotores J. Slaets, N. Steverink, and T.A.B. Snijders)
44. M. van der Gaag, *Measurement of individual social capital*, RUG, May 19, 2005. (Promotores T.A.B. Snijders and H.P. Flap)
43. M.J. Lubbers, *The social fabric of the classroom. Peer relations in secondary education*, RUG, December 9, 2004. (Promotores B.P.M. Creemers, T.A.B. Snijders and M.P.C. van der Werf)
42. H. van der Veen, *Het effect van milieubeleid op locatiebeslissingen van bedrijven*, RUG, November 18, 2004. (Promotores T.A.B. Snijders and H. Folmer)
41. R.C. van der Hulst, *Gender differences in workplace authority*, RUG, October 14, 2004. (Promotores K. Sanders and T.A.B. Snijders)
40. T. Asehun Leonida, *Student selection and retention at the University of Asmara, Eritrea*, RUG, July 1, 2004. (Promotor T.A.B. Snijders, referents M.A.J. van Duijn and E.P.W.A. Jansen)
39. M. van der Wal, *Competencies to participate in life. Measurement and the impact of school*, RUG, February 5, 2004. (Promotores J.L. Peschar, T.A.B. Snijders, and S. Waslander)
38. F.A. Nagel, *Cultuurdeelname in de levensloop*, UU, January 21, 2004. (Promotores H. Ganzeboom and T.A.B. Snijders)
37. H.A. Huitzing, *Infeasibility in Automatic Test Assembly: Analysis, Causes and Solutions*, RUG, October 27, 2003. (Promotores T.A.B. Snijders and W.K. Klein Haneveld, referent E. Timminga).
36. C.E.G. Steglich, *The Framing of Decision Situations*, RUG, September 18, 2003. (Promotores S.M. Lindenberg and T.A.B. Snijders)
35. J. Horgan, *High Performance Human Resource Management in Ireland and the Netherlands*, RUG, September 4, 2003. (Promotores S.M. Lindenberg and T.A.B. Snijders)
34. H.P. Zijlstra, *Dansen met Olifanten*, RUG, April 3, 2003. (Promotores H. Nakken. C. Vlaskamp, and T.A.B. Snijders)
33. H. de Vries, *Finding Structure in Social Interaction Data*, UU, February 3, 2003. (Promotores J.A.R.A.M. van Hooff and T.A.B. Snijders)
32. U. Matzat, *Social Networks and Cooperation in Electronic Communities*, RUG, December 6, 2001. (Promotor T.A.B. Snijders, copromotor H. de Vos)
31. M.A.L.M. van Assen, *Essays on Actor Models in Exchange Networks and Social Dilemmas*, RUG, June 28, 2001. (Promotores F.N. Stokman, W. Raub, and T.A.B. Snijders)
30. B. van Baarsen, *How's life? Adaptation to widowhood in later life and the consequences of partner death on the experienced emotional and social loneliness*, VU Amsterdam, May 23, 2001. (Promotores C. Knipscheer and T.A.B. Snijders, copromotor J. Smit)
29. T. Bartus, *Social Capital and Earnings Inequalities*, RUG, May 21, 2001. (Promotores J.L. Peschar)

- and T.A.B. Snijders, copromotor B. Völker)
28. J. Berkhof, *Specification methods for the multilevel model*, RUG, May 18, 2000. (Promotor T.A.B. Snijders, copromotor A. Boomsma)
 27. M.C. Achterkamp, *Influence strategies in collective decision making. A comparison of two models*, RUG, November 30, 1999. (Promotores F.N. Stokman and T.A.B. Snijders)
 26. D.R. Veenstra, *Leerlingen - klassen - scholen. Prestaties en vorderingen van leerlingen in het voortgezet onderwijs*, RUG, November 29, 1999. (Promotores J.L. Peschar and T.A.B. Snijders, referent A.B. Dijkstra)
 25. R.P.M. Wittek, *Interdependence and informal control in organizations*, RUG, September 9, 1999. (Promotores S.M. Lindenberg and T.A.B. Snijders; cum laude)
 24. G.G. van de Bunt, *Friends by choice. An actor-oriented statistical network model for friendship networks through time*, RUG, April 22, 1999. (Promotores T.A.B. Snijders and W. Sodeur)
 23. M. Spreen, *Sampling personal network structures. Statistical inference in ego-graphs*, RUG, January 7, 1999. (Promotor T.A.B. Snijders)
 22. J.B.F. Hutten, *Workload and provision of care in general practice*, RUU, February 13, 1998. (Promotores P.P. Groenewegen and T.A.B. Snijders)
 21. A.J. Oldehinkel, *Trends and Transitions in fifteen years of psychiatric care utilization*, RUG, December 16, 1997. (Promotores R. Giel and T.A.B. Snijders)
 20. V. van Velzen, *Tijd van de Dag en Informatieverwerking*, RUG, November 20, 1997. (Promotores G. Mulder and T.A.B. Snijders)
 19. E. Heyl, *Het docentennetwerk. Structuur en invloed van collegiale contacten binnen scholen*, UT, September 13, 1996. (Promotores J. Scheerens and T.A.B. Snijders; assistent-promotor R.J. Bosker)
 18. C.C.P. Snijders, *Trust and commitments*, RUU, May 28, 1996. (Promotores W. Raub and T.A.B. Snijders; co-promotor H.M. Weesie; cum laude)
 17. M.J.P.M. van Veldhoven, *Psychosociale arbeidsbelasting en werkstress*, RUG, April 4, 1996. (Promotores T.F. Meijman and T.A.B. Snijders)
 16. B.J.M. Steverink, *Zo lang mogelijk zelfstandig. Naar een verklaring van verschillen in oriëntatie ten aanzien van opname in een verzorgingstehuis onder fysiek kwetsbare ouderen*, RUG, Januari 11, 1996. (Promotores W.J.A. van den Heuvel, T.A.B. Snijders and J. Ormel)
 15. B.G.M. Völker, *Should auld acquaintance be forgot...? Institutions of communism, the transition to capitalism and personal networks: the case of East Germany*, RUU, October 19, 1995. (Promotores T.A.B. Snijders, K. Muehler and H.D. Flap)
 14. R.Th.A.J. Leenders, *Structure and influence. Statistical models for the dynamics of actor attributes, network structure and their interdependence*, RUG, July 3, 1995. (Promotores T.A.B. Snijders and F.N. Stokman)
 13. K. Boahene, *Innovation adoption as a socio-economic process: The case of the Ghanaian coca industry*, RUU, March 17, 1995. (Promotores T.A.B. Snijders and H. Folmer)
 12. E.P.H. Zeggelink, *Strangers into friends: The evolution of friendship networks using an individual oriented modeling approach*, RUG, December 20, 1993. (Promotores F.N. Stokman, C. Hoede and T.A.B. Snijders; cum laude)
 11. J. Gerlsma, *Parental rearing styles and psychopathology: Memories of parenting revisited*, RUG, March 11, 1993. (Promotores P.M.G. Emmelkamp and T.A.B. Snijders; cum laude)
 10. M.A.J. van Duijn, *Mixed models for repeated count data*, RUG, February 4, 1993. (Promotores T.A.B. Snijders and I.W. Molenaar; referent G.G.H. Jansen)
 9. M. van Dam, *Regio zonder regie*, RUU, November 20, 1992. (Promotores T.A.B. Snijders and F.N. Stokman; copromotor S.J. Denters)

8. P.A.J. van Roozendaal, *Cabinets in Multiparty democracies*, RUG, July 2, 1992. (Promotores F.N. Stokman, T.A.B. Snijders and R.J. Mokken)
 7. W. Post, *Nonparametric unfolding models*, RUG, May 7, 1992. (Promotores T.A.B. Snijders and W. Molenaar, referent H. van Schuur)
 6. C. Maas, *Probleemleerlingen in het basisonderwijs*, RUU, February 28, 1992. (Promotores T.A.B. Snijders and G.W. Meijnen; copromotor H. de Vos)
 5. E.J. Bakker, *Rainfall and risk in India's agriculture*, RUG, January 30, 1992. (Promotores C. Schweigman and T.A.B. Snijders)
 4. H. Hermsen, *Votes and policy preferences*, RUU, January 24, 1992. (Promotores T.A.B. Snijders and F.N. Stokman)
 3. P.J. Tellegen, *Construction and validation of the SON-R 5.5-17, the Snijders-Oomen non-verbal intelligence test*. RUG, June 27, 1991. (Promotores W. Molenaar, W.K.B. Hofstee and T.A.B. Snijders)
 2. R.H. Rensen, *Robust analysis in a mixed model for the two-way layout*, RUG, June 10, 1991. (Promotores T.A.B. Snijders and T.J. Wansbeek, referent A.G.M. Steerneman; cum laude)
 1. R.J. Bosker, *Extra kansen dankzij de school?*, RUG, June 28, 1990. (Promotores B.P.M. Creemers, G.W. Meijnen and T.A.B. Snijders)
- F.W. Wilminck. *Patient, physician, psychiatrist*, RUG, October 25, 1989. (Promotor R. Giel, referents J. Ormel and T.A.B. Snijders)
- J.C. Akkerboom, *Testing problems with linear or angular inequality constraints*, RUG, October 21, 1988. (Promotor W. Schaafsma, referent T.A.B. Snijders)

Invited and awarded lectures (since 1989)

Stochastic actor-oriented models for network dynamics, with an application to co-evolution of friendship and leisure activities, Invited Lecture, *Dutch Network Economics Day*, Tinbergen Institute (Amsterdam), October 17, 2018.

Dynamics of Multilevel and Multivariate Networks, Keynote Lecture, NetGlow conference, St Petersburg (Russian Federation), July 6, 2018.

Some Models for Networks as Dependent Variables, Invited presentation, 9th Lab Meeting on Dynamical Networks and Time Series Models, Department of Psychology, University of Amsterdam, September 5, 2017.

Network Analysis: Goodbye to Independence Assumptions, State-of-the-Art lecture at the International Meeting of the Psychometric Society, Zürich (Switzerland) July 19, 2017.

Invited plenary session on *Multilevel Networks* at the ARS'17 International Workshop *Challenges in Social Network Research*, with a presentation *Longitudinal Analysis of Multilevel Networks*, Naples (Italy), May 16, 2017.

Using Stochastic Actor-Oriented Models For Network Dynamics: Basics and Co-evolution, Invited seminar, Carnegie-Mellon University, January 27, 2017.

Using Stochastic Actor-Oriented Models For Network Dynamics: Basics and Co-evolution, Invited seminar, Yale School of Management, January 24, 2017.

Continuous-time statistical models for network panel data. Workshop ‘Network Dynamics’, Isaac Newton Institute, Cambridge (UK), December 12, 2016.

Continuous-time statistical models for network panel data. COSTNET meeting, Ribno (Slovenia), September 21, 2016.

Using Stochastic Actor-Oriented Models For Animal Networks? International Society for Behavioral Ecology, Post-Conference Symposium ‘Avoiding a tangled net: Planning the future of social network analysis’ (Exeter, UK), August 3, 2016.

Marrying agent-based modelling and statistical inference: co-evolution models for network dynamics. Séminaire CIPPMI Math-Info-Philo, Université Paul Sabatier (Toulouse), April 14, 2016.

Studying social influence in networks using the stochastic actor-oriented model. Süssmilch lecture, Max Planck Institute for Demographic Research (Rostock, Germany), October 21, 2015.

Actor-oriented dynamic social network modelling, Invited course lectures, Max Planck Institute for Demographic Research (Rostock, Germany), October 21, 2015.

Stochastic actor-oriented model for network dynamics. Invited lectures, ECAS (‘European Courses in Advanced Statistics’) course on “Statistical Analysis of Network Data”. München, October 1-2, 2015.

Marrying agent-based modelling and statistical inference: co-evolution models for network dynamics. Keynote lecture, International Social Simulation 2015 Conference, Groningen, September 18, 2015.

Multilevel longitudinal analysis of social networks. Keynote lecture, 10th International Multilevel Conference, Utrecht, April 9, 2015.

The settings model: A stochastic actor-oriented model for dynamics of large networks. Keynote lecture, Spring Meeting of the Methodology Section of the German Association for Sociology, Bremen, March 27, 2015.

Why are Some more Peer than Others? Evidence from a Longitudinal Study about Social Influence on Academic Performance. Seminar on Complexity in Economics of the Tinbergen Institute (Amsterdam), January 21, 2015.

Longitudinal methods for using panel data of networks and behaviour to assess peer influence. Invited lecture, meeting about Methods for Longitudinal Data Analysis in the Social Sciences organised by the LEMMA node of the ESRC National Centre of Research Methods, LSE, September 8, 2014

Colloquium Dynamic social network modelling, Behavioural Science Institute, Radboud University Nijmegen, June 25, 2014

Investigating the Dynamic Interaction between Actors and Network Context, Invited lecture, “Comprendre les Mondes Sociaux”, Colloque du Laboratoire d’Excellence *Structuration des Mondes Sociaux*, Toulouse, April 8, 2014.

Models and Estimators for Longitudinal Network Data. Invited presentation, International Conference of the Royal Statistical Society, Telford, September 5, 2012.

Statistical Modeling of Networks with a Focus on Longitudinal Models. Invited lecture, Conference “Animal Social Networks: Perspectives and Challenges”, Center for Interdisciplinary Research, University of Bielefeld, August 1, 2012.

The Multiple Flavours of Multilevel Issues for Networks. Invited keynote lecture, International Symposium on the Statistical Analysis of Multilevel Networks, Manchester, June 19, 2012.

New Developments in Actor-oriented Modeling of Dynamics of Networks and Behavior Analysis of Longitudinal Social Network Data Using RSiena. Invited keynote lecture, M3 Modern Modeling Methods Conference, University of Connecticut, May 22, 2012.

La Révolution Statistique dans l'Analyse des Réseaux. Université Paris-Dauphine, December 16, 2011.

Peer Effects in Academic Achievement: An Approach via Network Dynamics. Quant SIG seminar, Department of Education, University of Oxford, October 17, 2011.

Analysing multiplexity, a new approach for dissecting network dynamics. 2ème Journée d'études ORIO. Observatoire des Réseaux Intra- et Inter-Organisationnels, Lille, September 23, 2011.

Statistical Models for Dynamics of Social Networks: Inference and Applications. Keynote lecture, Conference of the Methodology Section of the American Sociological Association. Tilburg, May 19, 2011.

Micro Mechanisms and Macro Structures of Social Networks. Sociology Seminar, Nuffield College, University of Oxford. May 11, 2011.

Modelling Dynamics of Social Networks. Royal Statistical Society, London, March 15, 2011.

The co-evolution of one-mode and two-mode networks. Seminar, Department of Statistics, London School of Economics, November 5, 2010.

Network Inference: Influence, Selection; Methodological Challenges. Online Social Networks And Smoking Cessation: Strategic Research Opportunities. The Schroeder Institute, Washington DC, October 1, 2010

Actor-Oriented Models for Network Dynamics. SAMSI, Program on Complex Networks, Research Triangle Park. NC, August 31, 2010.

Tensions and Treasures. Keynote lecture, XXX International Sunbelt Social Networks Conference, Lago di Garda, July 1, 2010.

Latent class models for social networks (with Johan Koskinen). Farewell Conference for Jacques Hagenaars, Tilburg, March 4, 2010.

Dynamiek van sociale netwerken: modellen en paradigma's (*Dynamics of social networks: models and paradigms*). Royal Academy of Arts and Sciences, Amsterdam, December 7, 2009.

Statistical methods for social network dynamics. Workshop on High-Dimensional Inference and Complex Data, Groningen, November 24, 2009.

Dynamics of multivariate networks. International Workshop on Networks as Determinants of Economic and Social Behavior, Kiel, August 30, 2009.

Dynamics of multivariate networks. ARS'09 Conference on Social Network Analysis, Salerno, July 14, 2009.

Dynamics of multivariate networks. Dime International Conference on the Formation and Evolution of Social and Economic Networks. Paris, June 26, 2009.

Meeting in Settings, Mating in Networks. Keynote lecture, *Capturing Contexts* Conference. Columbia University, New York, June 12, 2009.

The co-evolution of one-mode and two-mode networks. Social Network Analysis Colloquium and Departmental Colloquium, Faculty of Psychology, University of Melbourne, April 6, 2009.

Statistical modeling as an approach to social network analysis. Inaugural Lecture, Belgian Francqui Chair, 2008-2009, University of Leuven, February 16, 2009.

Statistical Modeling of Longitudinal Network Data: Introduction and Some Empirical Findings. Keynote Lecture, International Conference On Social Network Analysis And Applications, New Delhi, January 29, 2009.

Social networks dynamics: methods, examples, and outlook. Invited seminar at the Institute for Social Change of the University of Manchester, November 18, 2008.

Network Influence, Social Selection and Individual Performance in Organizations (together with Vanina Torlò, Alessandro Lomi, and Christian Steglich). INSEAD Conference on Network Evolution. INSEAD, Fontainebleau, France. October 24-25, 2008.

Specification and estimation of exponential random graph models for social (and other) networks; Actor-oriented models for longitudinal social network data; Models for dynamics of valued networks. Invited keynote lectures at the 24th Workshop on Item Response Theory, University of Twente, October 7-9, 2008.

Methods for Analysing the Dynamics of Valued Networks. Keynote Lecture, 4th UK Social Networks Conference. The University of Greenwich. July 18-20, 2008.

Methods for Analysing the Dynamics of Valued Networks. Keynote Lecture, 7th Workshop on Networks in Economics and Sociology: Dynamic Networks. Department of Sociology / ICS, Utrecht School of Economics / TKI, Utrecht University. June 19, 2008.

Separating Social Influence from Social Selection on the Basis of Longitudinal Data and Statistical Models. Conference on The Empirical Analysis of Networks. University of Alicante, May 26-27, 2008.

Separating Social Influence from Social Selection on the Basis of Longitudinal Data and Statistical Models, Meeting on Methodology for Empirical Research on Social Interactions, Social Networks, and Health, Institute for Quantitative Social Science, Harvard University, May 2-3, 2008.

Analysing the dynamics of networks and behavior. Seminar, Faculté Jean Monnet, Université de Paris-Sud, April 22, 2008.

Analysing the dynamics of networks and behavior. Seminar, Institute of Sociology, Academia Sinica, Taipei, April 15, 2008.

Methods for analysing dynamics of social networks. Seminar, Institute of Statistics, Academia Sinica, Taipei, April 11, 2008.

Statistical Modelling of Social Network Dynamics, Seminar at the Statistics Group of the Open University. December 14, 2007.

Which Structural Tendencies Drive Network Dynamics? British Sociological Association/National Centre for Research Methods, Social Network Analysis Seminar Series. University of Sheffield. December 13, 2007.

Statistical Modelling of Networks in the Social Sciences, invited presentation at the meeting *Statistics of Networks* of the Royal Statistical Society, London, November 13, 2007.

Statistical Modelling of Social Network Dynamics. Invited lecture, statistics seminar of the University of Bristol, October 5, 2007.

New developments in methods for dynamic network modeling. Keynote address at the 4th Conference on Applications of Social Network Analysis, September 13-14, 2007, University of Zurich.

Network structures, individual behavior and performance in organizations. Torló, V., J., Steglich, C., Lomi, A., and T.A.B. Snijders (2007). Paper presented the Academy of Management Meetings, Philadelphia (PA), August 3-8, 2007 (Organization and Management Theory Division, best paper award).

Developments in Social Network Analysis. Invited lecture (with Anuska Ferligoj). QMSS (*Quantitative Methods in the Social Sciences*) conference, Prague, June 20-23, 2007.

Statistical methods for social networks. Workshop Young European Probabilists, Eurandom, Eindhoven, March 21, 2007.

Statistical inference for social networks dynamics. Invited lecture, First joint Warwick-Oxford Statistics Seminar, Oxford, February 8.

Statistical inference for social networks dynamics. Invited lecture, Nuffield College / Royal Statistical Society seminar, Oxford, November 29, 2006.

Statistical inference for social networks dynamics. Invited lecture, Institute for Social and Economic Research, University of Essex, November 4, 2006.

Invited discussant to the paper *Model-based clustering for social networks* by M.S. Handcock, A.E. Raftery, and J.M. Tantrum, read to the Royal Statistical Society, London, October 10, 2006.

'*Network dynamics*', invited lecture, *Dialogue on Statistical Approaches to Network Dynamics*, Université de Paris-Sorbonne, September 30, 2006.

Statistical methods for network dynamics, invited session, 43th Scientific Meeting of the Italian Statistical Society, Torino, June 15, 2006.

Maximum Likelihood Estimators for Statistical Inference on Network Dynamics, invited presentation, NetSci 2006 International Conference on Network Science, Bloomington, May 22, 2006.

Statistical inference for network dynamics, invited tutorial, NetSci 2006 International Workshop on Network Science, Bloomington, May 19, 2006.

The dynamic mutual influence between networks and individual behavior, invited seminar, Department of Sociology, University of Duisburg, November 23, 2005.

The use of new statistical methods for network analysis in studies of social influence with regard to substance use and delinquent behavior. Invited paper presented at the conference *Applications of Social Network Analysis to the Prevention of Substance Use & Delinquency*, Pennsylvania State University, November 11, 2005.

Statistical methods for the simultaneous dynamics of networks and individual behavior, Colloquium, Department of Statistics, University of Stockholm, September 29, 2005.

Multilevel Models in the Study of Crime: The Interplay Between Individual Background and Social Environment. Keynote paper delivered at the conference organized by the SCoPiC (the study of the social contexts of pathways into crime) network in Cambridge, June 30, 2005

Actor-driven models for network dynamics. Workshop on Structure and Function of Complex Networks, Abdus Salam International Centre for Theoretical Physics, Trieste, Abdus Salam International Centre for Theoretical Physics, Trieste, May 23, 2005.

Frequentist MCMC estimation methods for multilevel logistic regression. Seminar, Institut de Statistique, Université Catholique de Louvain (Belgium), December 17, 2004.

The dynamic mutual influence between networks and individual behavior, and its application to adolescent friendship, smoking, and alcohol use. Seminar, Quantitative Methods Group of the Faculty of Economics and Applied Economics, University of Leuven (Belgium), November 22, 2004.

The dynamic mutual influence between networks and individual outcomes. Seminar, INSEAD (Fontainebleau, France), November 11, 2004.

The Analysis of Longitudinal Social Network Data. Tutorial, INSEAD (Fontainebleau, France), November 10, 2004.

An MCMC algorithm for calculating the ML estimate in generalized linear models with random effects. 20th Workshop on Item Response Theory, University of Twente. October 13, 2004.

An overview of actor-driven models for social network dynamics. Meeting of the Social Statistics Section of the Dutch Society for Statistics and Operations Research about Social Network Analysis, October 1, 2004.

Multilevel Longitudinal Network Analysis. Symposium in honor of Paul Lazarsfeld at the Department of Sociology of the Catholic University of Leuven (Belgium), June 5, 2004.

New specifications for exponential random graph models, Seminar, Department of Statistics, University of Stockholm, January 22, 2004.

Simulation-Based Statistical Inference for Evolution of Social Networks. Workshop on *Networks and the Population Dynamics of Disease Transmission*, Institute for Mathematics and its Applications, Minneapolis. November 20, 2003.

A comparison of measures for individual social capital (presentation together with M. van der Gaag), Colloquium *Creation and Returns of Social Capital*, Royal Dutch Academy of Arts and Sciences, Amsterdam. October 30-31, 2003

The dynamic mutual influence between networks and individual behavior. Department seminar, Department of Psychology, University of Melbourne. July 23, 2003.

Multilevel Model Diagnostics using MlwiN. Fourth Amsterdam Conference on Multilevel Analysis, April 29, 2003, Amsterdam.

An introduction to Multilevel Analysis and some recent developments. Distinguished Visiting Speakers Series of the Department of Work and Organizational Psychology at the University of Amsterdam. April 17, 2003.

Latent structure models in social network analysis. Keynote speech at the meeting of the Dutch-Flemish Classification Society (VOC), The Hague, March 28, 2003.

Analysis of Dynamics of Social Networks. Invited presentation, Ecole des Hautes Etudes en Sciences Sociales (EHESS), Paris, March 17, 2003.

Analysing the simultaneous dynamics in relational networks and behavior. Annual Meeting of the American Association for the Advancement of Science (AAAS), in the symposium on *Social Networks, Science and Society*. Denver, USA, February 17, 2003.

Statistical blockmodeling in social network analysis. Conference of the Société Francophone de Classification in Toulouse, September 18, 2002

Model Diagnostics in Multilevel Analysis. SMABS Conference (Society for Multivariate Analysis in the Behavioral Sciences), Tilburg, July 2, 2002.

Macro-micro-macro and statistical network modeling. Keynote lecture at the Second European Thematic Conference for Network Analysis, University of Lille I, May 30, 2002.

Analyse multi-niveaux: potentiels et applications. Ateliers de Modélisation et de Méthodes Statistiques en Sciences Sociales, Laboratoire d'Analyse Secondaire et de Méthodes appliquées à la Sociologie -

Institut du Longitudinal, Paris, November 27, 2001.

Multilevel Analysis in the Social Sciences: Issues and Applications, Psychology Colloquium, University of Melbourne, October 17, 2001.

Stochastic Blockmodels, Quantitative Modeling Seminar, Department of Psychology, University of Melbourne, November 2, 2001.

Simulation-based statistical inference for evolution of social networks. International Conference on Methodology and Statistics in Ljubljana, Slovenia, September 19, 2001.

Multilevel studies of social network evolution. Department of Sociology of the University of South Carolina (Columbia), March 27, 2001.

Using simulation models for the statistical analysis of network evolution data. Department of Statistics of the University of Georgia (Athens), March 26, 2001.

Using simulation models for the statistical analysis of network evolution data. Biocomplexity Workshop "Networking the Invisible Colleges: Application of Network Theory to Biocomplexity", Duke University Marine Lab, Beaufort, NC, March 24, 2001.

Introduction to Multilevel Analysis. Graduiertenkolleg (Doctoral degree program) *Need-based and cost-effective Health Care* of the Technical University in Berlin, February 8-9, 2001.

Methodological and statistical remarks about the evaluation of human motor intervention programmes. Conference 'Beweging in Beeld', Groningen, November 25, 2000.

Simulation-based statistical inference for evolution of social networks. Fifth International Conference on Logic and Methodology (RC33), Cologne, October 4, 2000.

Two-level nonparametric scaling for dichotomous data. 16th Workshop on Item Response Theory, University of Twente, September 27, 2000.

Analyse multiniveaux. Department of Economics and Sociology, Université de Lille - 1, May 11, 2000.

Specification checks for multilevel models. Celebration meeting for 10 years Center of Statistics, University of Leuven, April 30, 1999.

Methods and models for network research. Meeting of the Netherlands Sociological Association, Amsterdam, March 26, 1999.

A measurement-oriented definition of social capital. International workshop on Social Capital, Institut des Sciences Politiques, Paris, November 27, 1998.

Statistical simulation-based analysis of longitudinal network data. Department of Statistics, University of Lund, October 14, 1998.

The effect of including fixed effects on variance parameters in multilevel logistic models. 14th Workshop on Item Response Theory, University of Twente, 8 October 1998.

An introduction to Social Networks and their relevance to infectious disease. NLS Workshop on Modelling of Contact Structure and the Spread of Infectious Diseases, RIVM, 24 september 1998.

Statistical simulation-based analysis of longitudinal network data. Research Workshop on the Analysis of Social Network Data, Department of Social Statistics, University of Southampton, July 3, 1998.

Multilevel analysis for personal networks. Séminaire Réseaux et Régulation, LASMAS/CNRS, Paris, April 27, 1998.

Crossed random effects in multilevel models, with applications in social networks and spatial models. LWBB Workshop on Multilevel Analysis of Longitudinal Survey Data, Potsdam, November 28, 1997.

Stochastic blockmodeling for directed graphs. Oberseminar, Department of Mathematics and Statistics, University of Aachen, October 28, 1997.

Multilevel methods for the analysis of repeated measures data with missing observations. Dipartimento di Statistica "G. Parenti", Florence, September 26, 1997.

Simulation-based Inference for Longitudinal Social Network Data. Dipartimento di Statistica "G. Parenti", Florence, September 26, 1997.

Multilevel Analysis: What and Why? Symposium Kurt Lewin Institute, Beekbergen, April 10, 1997.

A comparison of the univariate and the multivariate approaches to repeated measures. Department of Psychology, University of Leuven, January 22, 1997.

Simulation-based Inference for Longitudinal Social Network Data. Symposium on Approaches to the Analysis of Longitudinal Categorical Data, WORC, Tilburg University, April 11, 1996.

Stochastic Blockmodeling of Directed Graphs. Fifth Conference of the International Federation of Classification Societies, Kobe, March 27, 1996.

Estimation of parameters of Markov graphs using simulation. Department of Statistics, University of Stockholm, February 15, 1995.

Estimating the size of small and hidden populations. Institute for Political Science, Hungarian Academy of Sciences, Budapest, January 19, 1995.

Methods for longitudinal social network data: review and recent developments. 5th Tartu Conference on Multivariate Statistics, Tartu, Estonia, May 26, 1994.

The hierarchical linear model: interpretation questions and new developments. Conference "Mehrebenenanalyse" of the MASO research group, Cologne, March 10, 1994.

Segmentation in complete and personal networks. International Workshop on the Emergence and Analysis of Social Structures, Lille, September 21, 1993.

Introduction to one-dimensional scaling models. International Workshop on the Emergence and

Analysis of Social Structures, Lille, September 20, 1993.

Statistical models for social networks: overview and prospects. Social Science Information Technology Conference, Amsterdam, December 2, 1992.

Testing for Local Structure in Directed Graphs, Department of Sociology, University of Stockholm, May 15, 1992.

Testing for Change in Digraphs. Department of Sociology, University of Stockholm, May 15, 1992.

Estimation of Population Size from Snowball Samples. Department of Statistics, University of Stockholm, May 13, 1992.

Nonparametrische ontvouwingsmodellen voor dichotome data. Department of Mathematics, University of Groningen, November 5, 1991.

Mokken scaling for two-level data. Department of Education, University of Twente, October 9, 1991.

Conditionally uniform digraph distributions: digraphs with given in-degrees, out-degrees, and number of mutuals. Irvine Conference on Measurement theory and Social Networks, Irvine (CA), August 18, 1991.

Statistical testing for digraphs with a given number of mutuals and given in- and out-degrees. Second International Conference on Social Network Analysis. Paris, June 21, 1991.

Toetsen voor person fit in Item Response modellen. Medical Biological Section of the Dutch Society for Statistics and Operations Research, Zeist, May 7, 1991.

Conditionally uniform distributions, Stockholm Conference on Random Graphs and Applications, Sanga-Säby, April 26, 1989.

Publications.

See separate publication list (available from web http://www.stats.ox.ac.uk/~snijders/Pub_tabs.pdf).

Software (available from web page <http://www.stats.ox.ac.uk/~snijders/>)

RSIENA (Simulation Investigation for Empirical Network Analysis) (since July, 2009; An R package with frequent updates).

A program for the analysis of longitudinal data on entire social networks. The purpose is the statistical modeling of the network dynamics. The statistical analysis is done on the basis of computer simulation of a probabilistic model for this evolution.

This program implements the methods started with Snijders and van Duijn (in Conte, R., Hegselmann, R. Terna, P., eds., 1997), Snijders (*Sociological Methodology*, 2001), Huisman and Snijders (*Sociological Methods and Research*, 2004), Steglich, Snijders and Pearson (*Sociological Methodology*, 2010), complemented with many later developments.

Up to version 3, *SIENA* also contained a MCMC method for estimating the parameters of exponential random graph models, also called the p^* model (suitable for single rather than repeated network

observations), as described in Snijders (*Journal of Social Structure*, 2002) and Snijders, Pattison, Robins, and Handcock (2006).

Versions up to 3 were programmed by Tom Snijders, Christian Steglich, Michael Schweinberger, and Mark Huisman, with assistance by Peter Boer, and were integrated in *StOCNET*.

RSiena is the same as Siena version 4, and was programmed by Ruth Ripley and Kristis Boitmanis in collaboration with Tom Snijders. As from 2012, it is maintained by Tom Snijders with a group of colleagues. Current versions are public on R-Forge at http://r-forge.r-project.org/R/?group_id=461

StOCNET version 1.8 (April, 2007).

A program collection of statistically oriented programs for the analysis of social networks, developed by Mark Huisman, Evelien Zeggelink, Christian Steglich, Peter Boer (ProGamma / Science Plus), and Tom Snijders. Programmed by Peter Boer, Bert Straatman. Not being maintained since about 2010, but still available.

BLOCKS version 1.8 (June, 2007)

A program for stochastic block modeling of network data, implementing the methods in Snijders and Nowicki (*Journal of Classification*, 1997) and Nowicki and Snijders (*Journal of the American Statistical Association*, 2001). This also was programmed by Tom Snijders, with assistance by Peter Boer and integrated into *StOCNET*. It can also be used as a stand-alone program.

PINT version 2.11 (April, 2003).

A program for Power analysis IN Two-level designs (for determination of standard errors and optimal sizes in multilevel designs with 2 levels). This program calculates approximate standard errors for estimated fixed effect parameters in hierarchical linear models with two levels.

This program implements formulae derived in Snijders & Bosker (*Journal of Educational Statistics*, 1993). It was written by Tom Snijders, Roel Bosker, and Henk Guldemond.

ZO (for Zero-One) version 2.3 (July, 2002).

Aa collection of programs for the analysis of 0-1 matrices with given marginal sums. Special attention is given to matrices with a structurally zero diagonal, which represent graphs (if symmetric) or directed graphs (if not symmetric). These programs can be used for the statistical analysis of graphs and directed graphs according to the distributions known in the social network literature as the $U/\{X_{i+}\}$, $U/\{X_{i+}\},\{X_{+i}\}$, and $U/\{X_{i+}\},\{X_{+i}\},M$ distributions.

This program implements the methods published in Snijders (*Psychometrika*, 1991). It was written by Tom Snijders. It is also included in the *StOCNET* package. It can also be used as a stand-alone program.

Various *MLwiN macros* for multilevel modeling:

- (1) macros implementing the multilevel formulation of the Social Relations Model (Snijders & Kenny, *Personal Relationships*, 1999),
- (2) macros implementing model checking procedures proposed in Chapter 9 of Snijders & Bosker (1999).

TWOMOK, a program for non-parametric scale analysis for two-level data.

The nesting structure is defined by "subjects" (level-one units) being nested in "objects" (level-two units). The objects are to be scaled, the subjects may be considered to provide 'parallel tests' for the objects. This program implements methods proposed in Snijders (paper in *Essays on Item Response Theory* edited by Boomsma, van Duijn, and Snijders, 2001). It was written by Tom Snijders. Its functionality is now superseded by the *mokken* package in R.

Grants obtained from sources outside the universities

(only projects of considerable size with a role as project proposer or co-proposer)

- 2015 NWO: Research Talent grant for Vera de Bel, “The co-evolution of well-being and the kinship network after parental divorce”, (project number 406-15-191), PhD project for four years.
- 2014 ESF: Conference “Social Influence in Dynamic Networks”, Paris, December 15-17, 2014, as part of the European Collaborative Research Projects in the Social Sciences. Proposers E. Lazega, A. Ferligoj and T. Snijders, € 21,093.
- 2012 Belgian Federal Science Policy Office (BELSPO): International Partner in Interuniversity Attraction Pole “Developing crucial Statistical methods for Understanding major complex Dynamic Systems in natural, biomedical and social sciences” (“StUDyS”). € 25,000.
- 2011 ESF: Summer School Network Dynamics, held August 29-September 6, 2011, as part of the QMSS-2 program. € 52,210.
- 2009 Leverhulme Trust (UK); Academic Collaboration grant *Multilevel network modelling group* for M. Tranmer, N. Contractor, E. Lazega, A.Lomi, P. Pattison, G. Robins, T. Snijders, J. Koskinen, M. Elliott, S. Wasserman & R. Wittek, 2009-2012. £ 97,562.
- 2008 National Institutes of Health (USA); project *Adolescent Peer Social Network Dynamics and Problem Behavior*, Grant Number 1R01HD052887-01A2, Principal Investigator John M. Light. \$711,324 was granted to the sub-project carried out at the University of Oxford and led by Tom Snijders.
- 2007 ARC; *Modeling cross-level interactions in complex networked social systems*, Australian Research Council International Researcher Exchange Grant (project LX0776126); proposers P.E. Pattison, G. Robins, E. Lazega, J. F. Padgett, A. Lomi, & T.A.B. Snijders; period 2007-2009, total funded budget AUS \$37,000.
- 2006 Russell Sage Foundation; request together with R. Wittek and V. Nie: *Handbook of Rational Choice Social Research*. \$92,500.
- 2006 NWO/ESF; in the ESF ECRP EUROCORES programme: European Collaborative Research Project *Models for the Evolution of Networks and Behavior*, (project number 461-05-690), 1 postdoc project during 4 years, total funded budget €209,361.
- 2005 ARC; *Statistical models for social networks, network-based social processes and complex social systems*, Research project funded by the Australian Research Council (project DP0665261; proposers prof. Philippa Pattison, dr. Garry Robins and prof. Tom A.B. Snijders; period 2006-2010, total funded budget AUS \$710,000.).
- 2004 NWO; request together with A. Boomsma: Ph.D. project *Inference for non-experimental designs* (C. Aussems).
- 2003 ARC; *Modelling dynamic interactive social processes*, Discovery Grant funded by the Australian Research Council (project DP0343567; chief investigator prof. Philippa Pattison, partner investigators dr. Garry Robins and prof. Tom A.B. Snijders; period 2003-2007, total funded budget AUS \$246,250.).
- 2002 NWO; integrated research program *The dynamics of networks and behavior* (project number 401-01-550) (1 postdoc project and 4 Ph.D. projects; main proposer and also the project leader for the postdoc project and one Ph.D. project).
- 1998 NWO; postdoc project *Statistical methods for the joint development of individual behavior and peer networks* (project number 575-28-012; Mark Huisman).
- 1996 NWO; request together with H. Flap and F. van Winden: Research Programme *Creation and returns of social capital* (2 postdoc projects and 2 Ph.D. projects); responsible for Ph.D. project *Measurement of Social Capital* (M. van der Gaag; PhD awarded May 19, 2005) and postdoc project *Preparing for a job: Social Capital as a resource in education* (A.B. Dykstra).
- 1993 NWO; Ph.D. project *Estimation of network parameters using personal network sampling* (M.

- Spreen; Ph.D. awarded January 7, 1999).
- 1992 NWO; Ph.D. project *Misspecification of multilevel models* (H. Berkhof; Ph.D. awarded May 18, 2000).
- 1992 NWO; request together with P. van der Heijden and A. Mooijaart: Ph.D. project *Models for compositional data* (A. van den Ark; Ph.D. awarded May 10, 1999).
- 1992 NWO; request together with several persons: systems for Computer Assisted Telephone Interviewing (*CATI*) at the Universities of Utrecht and Groningen.
- 1991 NWO; request together with F.N. Stokman: *Prediction of the formation of committees in collective decision making* (R.T.A.J. Leenders, Ph.D. awarded July 3, 1995).
- 1990 NWO; request together with H. Flap: Ph.D. project *Changing personal networks in East Germany after the political turnover* (B. Völker, Ph.D. awarded October 19, 1995).
- 1990 NWO; request together with F. Stokman and C. Hoede: Ph.D. project *Structure and dynamics of friendship networks* (E.P.H. Zeggelink, Ph.D. awarded December 20, 1993).
- 1990 Ministry of WVC; request together with P. Groenewegen: partial funding of Ph.D. project *Workload of general practitioners and the content and quality of care* (J. Hutten, Ph.D. awarded February 13, 1998).

Formalized involvement in international projects (incomplete list)

- Member of the Scientific Council of *Institute for Advanced Study*, Toulouse (from 2016)
- Member of Conseil Scientifique, Laboratoire d'Excellence *Structuration des Mondes Sociaux*, Toulouse (from 2013).
- Consultant in *The Global Diffusion of Tobacco Control* (Principal Investigator Prof. Thomas Valente, Keck School of Medicine, University of Southern California), funded by NIH (2012-2015).
- International Partner in Interuniversity Attraction Pole "Developing crucial Statistical methods for Understanding major complex Dynamic Systems in natural, biomedical and social sciences" ("StUDyS") awarded by the Belgian Federal Science Policy Office (BELSPO) (2012-2017).
- Joint project leader, together with Prof Anuska Ferligoj (Ljubljana), of ECRP collaborative research programme "Social Influence in Dynamic Networks" (European Science Foundation, ECRP 10-044) (2012-2015).
- Member of OECD GSF Expert Group on Data and Research Infrastructure for the Social Sciences (2010-2012).
- Member of International Scientific Advisory Committee, Geary Institute, University College Dublin (from 2010).
- Co-investigator in the NIH-funded project *Adolescent Peer Social Network Dynamics and Problem Behavior*, Grant Number 1R01HD052887-01A2, Principal Investigator John M. Light (2008-2013).
- Project leader of the ESF ECRP EUROCORES programme: European Collaborative Research Project *Evolution of Networks and Behavior*, (05_ECRP_FP026; in the Netherlands: NWO project number 461-05-690), 6 coordinated projects in 6 European countries. (2006-2010)
- Co-proposer and partner investigator of the project *Statistical models for social networks, network-based social processes and complex social systems*, funded by the Australian Research Council (proposers prof. Philippa Pattison, dr. Garry Robins and prof. Tom A.B. Snijders; 2006-2010).
- Partner Investigator in the project *Modelling dynamic interactive social processes* funded by the Australian Research Council (project DP0343567; chief investigator prof. Philippa Pattison, 2003-2007).
- Member of Steering Committee, *ESRC Oxford Spring School* (from 2002).

Member of Follow-Up Committee, Interuniversity Attraction Pole *Statistical techniques and modeling for complex substantive questions with complex data*, Belgium.(from 2001).

Member of Scientific Advisory Council, *Netherlands Kinship Panel Study (NKPS)* (from 2001).

Consultant in *Modeling HIV and STDs in Drug User and Sexual Networks* (principal investigator prof. Martina Morris, University of Washington, Seattle, USA; NIDA, 7R01DA012831; June 2001 – May 2006);

Consultant in *Adolescent Health and Academic Achievement* (principal investigator prof. Chandra Muller, University of Texas at Austin; funded by National Institute of Child Health and Human Development, National Science Foundation, National Center for Education Statistics; 2001-2005).