

## **CURRICULUM VITAE (November 2015)**

### Personalia:

name: Vermunt, Jeroen Kornelis.  
date of birth: August 6, 1962.  
place of birth: Tilburg, The Netherlands.  
marital status: married, 4 children  
address: Henriette Ronnerstraat 19, 5038 KH Tilburg. The Netherlands.  
telephone number: +3113 4635506.

### Education:

May, 30 1980 Secondary education: V.W.O.-B, Newmancollege, Breda.  
June, 24 1988 Masters degree in Social Sciences (cum laude) at Tilburg University.  
Major: Statistics and Research Methods. Minors: Demography and  
Development Studies.  
April 12, 1996 Phd. degree in Social Sciences (cum laude) at Tilburg University. Title  
dissertation: "Log-linear event history analysis"

### Work experience:

July 1, 1982 until  
July 1, 1985 Student Assistant at the Department of Methodology, Tilburg University.  
February, 1 1987 until  
August, 1 1987 Part-time Lecturer in Research Methodology at the Dutch Scientific  
Institute for Tourism and Recreation in Breda.  
August, 1 1988 until  
October, 31 1988 Lecturer in Statistics and Research Methodology at Tilburg University.  
November 1, 1989 until  
June 30, 1992 Researcher at the Central Bureau of Statistics, Voorburg, Department of  
Demography and Population Forecast.  
July 1, 1992 until  
December 31 2000 Lecturer in Statistics and Research Methodology at Tilburg University.  
January 1999 until  
December 2004 Part-time lecturer at Catholic University of Brussels for the "Quantitative  
Methods" program  
January 1, 2001  
September 30 2002 Senior Lecturer in Statistics and Research Methodology at Tilburg

University.

October 1, 2002 until  
now

Professor in Statistics and Research Methodology at Tilburg University.

September 1, 2001 until  
now

Part-time Professor in Statistics and Research Methodology at Leuven University for the IMPALLA program.

## REPORT OF ACTIVITIES

### Courses taught at Tilburg University:

- Inleiding Methoden en Technieken van Onderzoek (Introduction in Social Research Methods)
- Beschrijvende Statistiek (Descriptive Statistics)
- Analyse van Categorische Data (Categorical Data Analysis)
- Methoden van Praktijkonderzoek (Applied Research Methods)
- Beleids- en Evaluatie-onderzoek (Policy and Evaluation Research Methods)
- Causale Analyse (Causal Modelling)
- Schaaltechnieken en Factoranalyse (Scaling and Factor Analysis)
- Advanced Data Collection and Analysis Methods
- Analysis of Categorical Data (Research Masters)
- Analysis of Multilevel and Longitudinal Data (Research Masters)
- Omgaan met Missing Data (Dealing with Missing Data, short course for faculty and phd students, with Koen Bernaards)
- Categorische Data Analyse (Categorical Data Analysis, short course for faculty and phd students, with Jacques. Hagenaars)
- Analyse van Longitudinale Data (Longitudinal Data Analysis, short course for faculty and phd students, with Jacques. Hagenaars)
- Introduction to Latent Class and Mixture model (short course for faculty and Phd students)

### Other courses, workshops, and guest professorships

- Course “Log-linear modeling with latent variables”. February 24-28 1997, 26th Spring Seminar, Zentralarchiv Cologne, Germany.
- Workshop “On the use of the LEM program”. May 1997. Department of Political and Social Sciences, University of Antwerp, Belgium.
- Workshop “The analysis of longitudinal categorical data: the LEM approach”. January 29-30, 1998, Free University Brussels, Belgium.
- Workshop “Latent class models for dealing with classification error”. US Census Bureau, Washington, DC. April 8-10, 1998.
- Workshop “Análisis de datos categoricos: el enfoque LEM”. Universidad de Valencia. October 22-24, 1998, Valencia, Spain.
- Seminar “Event history analysis using the LEM program”. Groningen University. October 29, 1998. Groningen, The Netherlands.
- Workshop “Log-linear path modeling with latent variables using the LEM program”. University of Florence. December 17-18, 1998, Florence, Italy.
- Seminar “The LEM framework for categorical data analysis”. January 21, 1999, University of Michigan, Ann Arbor.
- Post-doctoral course “Categorical data Analysis”. Catholic University of Brussels. Spring 1999, 2000, 2001, 2002, 2003, and 2004. (with Jacques Hagenaars)
- Workshop “Advancements in Latent Class Analysis”. Catholic University of Brussels. June 8-11, 1999. (with Jacques Hagenaars and Marcel Croon)
- Course “Latent Class Cluster, Factor, and Regression/Segmentation Analysis”. Statistical Modeling Week from Statistical Innovations. June 1999, October 2000, and October 2001. Boston. (with Jay Magidson).

- Workshop “Curso avanzado de modelos de clase latente” May 1-5, 2000. University of Murcia, Spain.
- Pre-conference course on “Use of the Latent GOLD program”. Fifth International Conference on Logic and Methodology, October 3-6, 2000, Cologne.
- 4-day IOPS course “Latent class and other types of mixture models”, March 2001, Tilburg
- Workshop “Latent Class analysis and finite mixture modeling with the new Latent GOLD program” at the 23th SMABS conference. June 30 - July 3, 2002, Tilburg University, Netherlands.
- Course “Introduction to Latent Class and Mixture Models” in the Continuing Education Program at the Joint Statistical Meetings, August 11-15 2002, New York. (with Jay Magidson)
- Didactic seminar “Latent Class and Mixture Models” at the meeting of the American Sociological Association, August 16-19 2002, Chicago. (with Jay Magidson)
- Workshop “Latent Class analysis and finite mixture modeling with the new Latent GOLD program” at the Annual Meeting of the Japanese Behaviormetric Society, September 18-21 2002, Tama University, Tokyo, Japan.
- November 2002, 2003, 2004, 2005, 2006, 2007, Course “Statistics II” in the IMPALLA Masters program CEPS Luxemburg
- February 19-21 2003, Workshop “Latent class analysis”, University of Umea, Sweden
- March 17-21 2003, Course “Latent Variable Models” in Spring-seminar Zentral Archiv Cologne, Germany
- September 14 2003: Pre-conference course “Latent class analysis” in the Conference “Metodologia de las Ciencias del Comportamiento y la Salud”, Valencia, Spain.
- Guest Professor at ZUMA, Mannheim, Germany, February, 2004
- Seminar on “Multilevel Analysis”, European Union PSYCHONES Project Meeting, June 3-5 2004, University of Valencia, Spain
- “Latent Class Regression Analysis”, Workshop at the 24<sup>th</sup> Biennial Conference of SMABS, 17-22 of July 2004 at Jena University, Germany
- “Introduction to Latent Class and Finite Mixture Modeling”, Workshop at “Institut für Soziologie, Abteilung für empirische Sozialforschung”, Johannes Kepler Universität Linz, Austria, January 14, 2005
- Worskop “Introduccion al Analisis de Clase Latente” at Segunda parte del curso de doctorado “Introduccion al Analisis de Datos Categoricos”, 2-4 de febrero, 2005, Departamento de Psicologia Experimental, Universidad de Sevilla
- EPU-Net Advanced Training Course on Panel Data Analysis, Tilburg, 7-11 March, 2005 (with Guy Moors)
- “Random-effects Regression Modelling using Latent Class Methods”, short course at the Fifth International Amsterdam Conference on Multilevel Analysis, March 21–23 2005
- Workshop “Random-effects Regression Modelling using Latent Class Methods”, IMPS 2005, the 14th International Meeting and the 70th Annual Meeting of the Psychometric Society, July 4–9 2005, Tilburg University
- “Introduction to Latent Class Modelling (in Developmental Research)”, Workshop at the XII European Conference on Developmental Psychology, 24-28 August 2005, Tenerife (with Manuel Ato)
- 2-day seminar “Introducción al Análisis de Clases Latentes” at Seminario en la Universidad Nacional Autónoma de México, Facultad of Psicología, Ciudad de México, 7-8 de Marzo, 2006
- IOPS-Seminar “Generalized Latent Variable Modeling”, 29-31 May 2006, Tilburg University

- 2-day Workshop ‘Latent Class Analysis’ at Scuola Cladag, “Multivariate statistical methods for the analysis of clustered data”, Bologna, 19-21 febbraio 2007, Facoltà di Scienze Statistiche, Università di Bologna
- Course “Generalized latent variable modeling”. March 10-14 2008, 37th Spring Seminar, Zentralarchiv Cologne, Germany.
- **To be updated.** Last activity was guest professorship in October 2012 at UC Berkeley.
- IOPS-Seminar “Generalized Latent Variable Modeling”, Januari 2015, Tilburg University
- Barcelona Summer School in Survey Methodology, July 8-10 2015, Pompeu Fabra University (*upf*), Research Expertise Centre for Survey Methodology (RECSM)

Dissertation advisor (Promotor):

- Francisca Galindo (2004). Model selection in the analysis of ordinal categorical data (with M. Croon)
- Alexandra A.H. van Abswoude (2004). Dimensionality assessment under nonparametric IRT models (with K. Sijtsma and B. Hemker)
- Jose G. Dias (2004). Finite mixture models: Review, applications, and computer-intensive methods (Groningen University, with T. Steerneman and F. Willekens)
- Joost van Ginkel (2007). Multiple imputation of incomplete test, questionnaire and survey data (with K. Sijtsma and A.L. van der Ark)
- Dimitris Pavlopoulos (2007). Wage mobility patterns in Europe (with R. Muffels)
- Roberta Varriale (2008). Multilevel mixture models for the analysis of the university effectiveness (University of Florence, with B. Chiandotto and L. Grilli)
- Cinzia Del Giovanni (2008). Modello multilevel a classi latenti: estensione al modello multidimensionale (University of Bologna, with A. Montanari and G. Cavrini)
- Elena Pirani (2009). A multilevel approach to latent class models: Analysis of social exclusion among European regions (University of Florence, with S. Schifini and C. Rampichini)
- Olga Lukociene (2010). Latent class models for categorical data with a multilevel structure
- Rudie Ligtoet (2010). Essays on invariant item ordering (with K. Sijtsma and A. van der Ark)
- Mislosh Kankarash (2010). Essays on measurement equivalence in cross-cultural survey research (with G. Moors)
- Josué Almansa Ortiz (2011). European mental health assessment through latent variable modeling: application on mental health comorbidity. (Universidad de Barcelona, with J. Alonso)
- Daniele Riggi (2011). Mixture factor model for hierarchical data structure and applications to the Italian educational school system (Bicocca Milan, with Salvatore Ingrassia and Giorgio Vittadini)
- Meike Morren (2011). The survey response: A mixed method study of cross-cultural differences in responding to attitude statements. (with J. Gelissen),
- Carmen Petrovici (2012). Early retirement culture, active aging and the life course (with G. Moors)
- Natalia Kirju (2012). Question format and response style behavior I attitude research (with G. Moors)
- Daniel van der Palm (2013, with A. van der Ark and K. Sijtsma)
- Gabriela Koppenol (2014, with Samantha Bouwmeester)
- Margot Bennink (2014, with Marcel Croon)
- Claudia Crayen (2015, with Michael Eid, Free University Berlin),

- Ingrid Vriens (2015, with John Gelissen and Guy Moors)
- Zsuzsa Bakk (2015, with Daniel Oberski)
- Dereje Gudicha (2015, with Fetene Tekle and Verena Schmittmann),
- Ongoing: Eva van Vlimmeren (with Guy Moors), Geert van Kollenburg, Florian Boing-Messing (with Joris Mulder), Lisette de Rujter (with van Nieuwenhuizen, Tranzo), Erwin Nagelkerke, Davide Vidotto, Hana Hadiwijaya (met Wim Meeus and Theo Klimstra, Dev. Psych.), Lianne Ippel, Matthis van den Bergh, Dino Dittrich (with Joris Mulder and Roger Leenders), Anna de Castellarnau (external PhD, with Daniel Oberski), Roberto di Mari (with Roberto Rocci, University of Rome Tor Vergata), Michele Nuijten, Paulette Flore, Coosje Veldkamp, Paul Lodder (all 4 with Jelte Wicherts), Chris Hartgerink (with Marcel van Assen), Laura Boeschoten (with Ton de Waal), Sara van Erp (with Joris Mulder and Daniel Oberski) and Roline Kamphuis (with Daniel Oberski).

#### Member dissertation committee

- Emanuel Aris (Tilburg University)
- Heleen van Mierlo (Eindhoven University)
- Arnold Smits (Free University, Amsterdam)
- Marieke van Onna (Groningen University)
- Ardo van Van Hout (Utrecht University)
- Eugene Swane (Utrecht University)
- Irene Klugkist (Utrecht University)
- Irene Hendrawan (Twente University)
- Samantha Bouwmeester (Tilburg University)
- Anna Dagohoy (Twente University)
- Ben Pelzer (University of Nijmegen)
- Olav Laudy (Utrecht University)
- Ronald Dekker (Tilburg University)
- Bonne Zijlstra (Groningen University)
- Kenneth John Beath (Macquarie University, Australia)
- Fetene Tekle (Maastricht University)
- Joost van Rosmalen (Erasmus University Rotterdam)
- Abram van Dijk (Erasmus University Rotterdam)
- Verena Schmittmann (University of Amsterdam)
- Pascal van Hattum (University of Utrecht)
- Wobbe Zijlstra (Tilburg University)
- Anna Manzoni (Tilburg University)
- Marieke Spreeuwenberg (Tilburg University)
- Joris Mulder (Utrecht University)
- Daniel Oberski (Tilburg University)
- Hanneke Geerling (University of Twente)
- Marianna Avetisyan (University of Twente)
- Kim de Roover (Leuven University)
- Marie-Anne Keizer-Mittelhaeuser (Tilburg University)
- Maryam Safarkhani (University of Utrecht)
- Michelle Barrett (University of Twente)
- Maria Bolsinova (2016, University of Utrecht)
- Ruslan Jabrayilov (2016, Tilburg University)

## Administration

- Member of the board of the department of Methodology and Statistics
- Director of Education of the Department Methodology and Statistics
- Head of Department of Methodology and Statistics
- Chair of the board of the Social Science section of the Netherlands Statistical Society, and member of the general board Netherlands Statistical Society
- Chair of the Dutch and Flemish Classification Society (VOC), and member board of IFCS
- Member board of trustees of the Psychometric Society
- Member SIA-commission of Tilburg University
- Member VICI commission NWO (2006 and 2007)
- Member VIDI commission NWO (2008)
- Chair VIDI commission NWO (2012, 2013, 2014, and 2015)
- Member of the board of the graduate school Faculty of Social Sciences
- Former Member of the board of IOPS (national graduate school)
- Co-organizer of SMABS 2002 and IMPS 2005 conferences
- Organizer ASA-Methodology 2010 conference and IFCS-2013 conference
- Co-organizer of various one-day conferences for the Netherlands Statistical Society
- Co-organizer of various one-day conferences for the VOC
- Organizer of special sessions at international conferences

## Awards and honors

- Cum laude master degree Tilburg University
- Cum laude phd degree Tilburg University
- 2005 Leo Goodman award of the Methodology section of the American Sociological Association
- NWO grant for phd project (2003)
- NWO grant for phd project (2004, with John Gelissen)
- NWO grant for phd project (2005, with Guy Moors)
- NWO grant for phd project (2008, with Andries van der Ark and Klaas Sijtsma)
- DFG grant for phd project (2008, with Tanja Lischetzke and Michael Eid)
- NWO grant for phd project (2009, with Marcel Croon)
- NWO grant for phd project (2009, with John Gelissen and Guy Moors)
- NWO VICI grant (2010)
- NWO OT grant for phd project (2011), for Dereje Gudicha
- NWO OT grant for phd project (2013), for Davide Vidotto
- NWO OT grant for phd project (2013), for Paulette Flore (met Jelte Wicherts)
- NWO OT grant for phd project (2015), for Sara van Erp (met Joris Mulder)

## Memberships:

- National Graduate School IOPS ((Interuniversitair Onderzoeksinstituut voor Psychometrie en Sociometrie)
- Research Committee on Logic and Methodology (RC33) of the International Sociological Association (ISA)
- American Sociological Association
- Psychometric Society, including member of the board of trustees
- European Association of Methodology

- Netherlands Statistical Society (VVS), including member of the board
- Netherlands Classification Society (VOC)

Editorial board memberships:

- Sociological Methodology
- Psychological Methods (ended in 2015)
- Methodology
- Journal of Educational and Behavioral Statistics
- American Sociological Review (former)
- Sociological Methods and Research
- Journal of Classification (new in 2015)
- Sage Encyclopedia of Social Sciences Methodology (former)

Reviewer for:

- Sociological Methodology
- Sociological Methods and Research
- Methodology (incl. guest editor)
- Journal of Mathematical Sociology
- Psychometrika (incl. guest associate editor)
- Psychological Methods
- Applied Psychological Measurement
- British Journal of Mathematical and Statistical Psychology
- Journal of Educational and Behavioral Statistics
- Behaviormetrika
- Multivariate Behavioral Research
- Behavior Research Methods
- Methods of Psychological Research
- Organizational Research Methods
- Biometrical Journal
- Biostatistics
- Statistical Methods in Medical Research
- BMC Medical Research Methodology
- Computer Methods and Programs in Biomedicine
- Journal of Classification
- Statistica Neerlandica (incl. guest editor)
- Journal of the Royal Statistical Society, Series A (Statistics in Society)
- Journal of the Royal Statistical Society, Series C (Applied Statistics)
- Journal of the American Statistical Association
- International Statistical Review
- Computational Statistics and Data Analysis
- Statistical Modelling
- Statistical Methods and Applications
- Communications in Statistics - Theory and Methods
- Communications in Statistics - Simulation and Computation
- Journal of Statistical Planning and Inference
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- Data and Knowledge Engineering



- Computational Statistics
- Journal of Multivariate Analysis
- American Journal of Sociology
- American Sociological Review
- Poetics
- European Journal of Sociology
- Political Research Quarterly
- American Political Science Review
- Electoral Studies
- Scandinavian Journal of Work, Environment and Health
- Journal of Child Psychology and Psychiatry
- Journal of Community and Applied Social Psychology
- Journal of Applied Developmental Psychology
- Personality and Individual Differences
- Marketing Science
- Economic Journal
- International Journal of Research in Marketing
- Empirical Economics
- European Journal of Economic and Social Systems
- American Journal of Epidemiology
- Tropical Medicine & International Health
- Health & Place
- Human Genetics
- The International Journal of Biostatistics
- IIE Transactions
- Work & Stress
- Risk Analysis
- Journal of Official Statistics
- International Journal of Public Opinion Research
- Survey Research Methods
- Journal of Computational and Graphical Statistics
- Biometrics
- Biological Psychiatry
- Educational and Psychological Measurement
- Scientific Research and Essays
- Population Studies
- Pakistan Journal of Statistics
- Annals of Applied Statistics
- Journal of Applied Statistics
- Judgment and Decision Making.
- Kwantitatieve Methoden
- Tijdschrift voor Sociologie
- National Science Foundation (USA)
- National Science Foundation (The Netherlands)
- National Science Foundation (Flanders, Belgium)
- Science Foundation Ireland
- Various edited volumes and various book proposals

**May need minor update**

## PUBLICATIONS

### Books:

1. Vermunt, J.K. (1996). *Log-linear event history analysis: a general approach with missing data, unobserved heterogeneity, and latent variables*, 350 pages, Tilburg: Tilburg University Press. Phd. dissertation.
2. Vermunt, J.K. (1997). *Log-linear models for event histories*. Advanced Quantitative Techniques in the Social Sciences Series, vol 8., 348 pages, Thousand Oakes: Sage Publications.

### Articles in peer-reviewed international journals:

1. Rees, K., and Vermunt, J.K. (1996). Event history analysis of author's reputations. *Poetics*, 23, 317-333.
2. Pieters, R., Baumgartner, H., Vermunt, J.K., and Bijmolt, T. (1999). Importance and similarity in the evolving citation network of the International Journal of Research in Marketing. *International Journal of Research in Marketing*, 16, 113-127.
3. Rees, K., Vermunt, J.K., and Verboord, M. (1999). Cultural classifications under discussion. Latent class analysis of highbrow and lowbrow reading. *Poetics* 26/5-6: 349-365.
4. Vermunt, J.K. (1999). A general non-parametric approach to the analysis of ordinal categorical data. *Sociological Methodology*, 29, 197-221.
5. Vermunt, J.K., Langeheine, R., and Böckenholt, U. (1999). Latent Markov models with time-constant and time-varying covariates. *Journal of Educational and Behavioral Statistics*, 24, 178-205.
6. Van den Oord, E., and Vermunt, J.K. (2000). Testing for linkage disequilibrium, maternal effects, and imprinting with (in)complete case-parent triads using the computer program LEM. *American Journal of Human Genetics*, 66, 335-338.
7. Anderson, C., and Vermunt, J.K. (2000). Log-multiplicative association models as latent variable models for nominal and/or ordinal data. *Sociological Methodology*, 30, 81-122.
8. Bassi, F., Hagenars, J.A., Croon, M., and Vermunt, J.K. (2000). Estimating true changes when categorical panel data are affected by uncorrelated and correlated classification errors. *Sociological Methods and Research*, 29, 230-268.
9. Vossen, A., and Vermunt, J.K. (2000). Young adult's preferences regarding the partner's age, and the importance of age as a partner choice determinant. *Genus*, 56, 177-201.
10. Van Poppel, F., Liefbroer, A.C., Vermunt, J.K., and Smeets, W. (2001). Love, Necessity and opportunity: Changing patterns of marital age homogamy in the Netherlands, 1850-1993. *Population Studies*, 55, 1-13.
11. Vermunt, J.K. (2001). The use restricted latent class models for defining and testing nonparametric and parametric IRT models. *Applied Psychological Measurement*, 25, 283-294.
12. Vermunt, J.K., Rodrigo, M.F., and Ato-Garcia, M. (2001). Modeling joint and marginal distributions in the analysis of categorical panel data. *Sociological Methods and Research*, 30, 170-196.
13. Magidson, J., and Vermunt, J.K. (2001). Latent class factor and cluster models, bi-plots and related graphical displays, *Sociological Methodology*, 31, 223-264.
14. Vermunt, J.K., and Van Dijk, L. (2001). A nonparametric random-coefficients approach: the latent class regression model. *Multilevel Modelling Newsletter*, 13, 6-13.
15. Magidson, J., and Vermunt, J.K. (2002). Latent class models for clustering: A comparison

- with K-means. *Canadian Journal of Marketing Research*, 20, 36-43.
16. Vermunt, J.K., and Georg, W. (2002). Longitudinal data analysis using log-linear path models with latent variables. *Metodología de las Ciencias del Comportamiento*, 4, 37-53.
  17. Vermunt, J.K. (2002). Comment on "Latent class analysis of complex sample survey data". *Journal of the American Statistical Association*, 97, 736-737.
  18. Galindo-Garre, F., Vermunt, J.K., and Croon M.A. (2002). Likelihood-ratio tests for order-restricted log-linear models: A comparison of asymptotic and bootstrap methods. *Metodología de las Ciencias del Comportamiento*, 4, 325-337.
  19. Vermunt J.K (2002). An Expectation-Maximization algorithm for generalised linear three-level models. *Multilevel Modelling Newsletter*, 14, 3-10.
  20. Brouhns, N., Denuit, M., and Vermunt, J.K. (2002). A Poisson log-bilinear approach to the construction of projected lifetables. *Insurance: Mathematics & Economics*, 31, 373-393.
  21. Brouhns, N., Denuit, M., and Vermunt, J.K. (2002). Measuring the longevity risk in mortality projections. *Bulletin of the Swiss Association of Actuaries*, 105-130.
  22. Vermunt, J.K, and Magidson, J. (2003). Latent class models for classification. *Computational Statistics and Data Analysis*, 41,3-4, 531-537.
  23. Vermunt, J.K. (2003). Applications of latent class analysis in social science research. *Lecture Notes in Artificial Intelligence*, 2711, 22-36
  24. Vermunt, J.K.(2003). Multilevel latent class models. *Sociological Methodology*, 33, 213-239
  25. Maas, C.J.M., and Vermunt, J.K. (2004). Editorial introduction to special issue on "Multilevel and Other Types of Random Coefficients Models". *Statistica Neerlandica*, 58, 125-126.
  26. Vermunt, J.K. (2004). An EM algorithm for the estimation of parametric and nonparametric hierarchical nonlinear models. *Statistica Neerlandica*, 58, 220- 233.
  27. Van Abswoude, A. Vermunt, J.K., Hemker, B., and Van der Ark, A. (2004). Mokken scale analysis using hierarchical clustering procedures. *Applied Psychological Measurement*, 28, 332-354.
  28. Galindo-Garre, F., Vermunt, J.K., and Bergsma, W. (2004). Bayesian posterior estimation of logit parameters with small samples. *Sociological Methods and Research*, 33, 88-117.
  29. Bijmolt, T.H., Paas, L.J., and Vermunt, J.K. (2004). Country and consumer segmentation: multi-level latent class analysis of financial product ownership. *International Journal of Research in Marketing*, 21, 323-340.
  30. Bouwmeester, S., Sijtsma, K., and Vermunt, J.K. (2004). Latent class regression analysis for describing cognitive developmental phenomena: an application to transitive reasoning. *European Journal of Developmental Psychology*, 1, 67-86.
  31. Galindo-Garre, F., and Vermunt, J.K. (2004). The order-restricted association model: Two estimation algorithms and issues in testing. *Psychometrika*, 69, 641-654.
  32. Vermunt, J.K. (2004). Comment on "An analysis of classification error for the revised current population survey employment questions". *Survey Methodology*, 30, 141-144.
  33. Vermunt, J.K., and Anderson, C.A (2005): Maximum likelihood joint correspondence analysis. *Methodology*, 1, 18-26.
  34. Magidson, J., and Vermunt, J.K. (2005). Comment on "Current issues and a "wish list" for conjoint analysis". *Applied Stochastic Models in Business and Industry*, 21, 327-328.
  35. Vermunt, J.K (2005). Mixed-effects logistic regression models for indirectly observed outcome variables. *Multivariate Behavioral Research*, 40, 281-301.
  36. Galindo-Garre, F., and Vermunt, J.K, (2005). Testing log-linear models with inequality constraints: A comparison of asymptotic, bootstrap, and posterior predictive p values. *Statistica Neerlandica*, 59, 82-94.

37. Notelaers, G., Einarsen, S., De Witte, H., and Vermunt, J.K. (2006). Measuring exposure to bullying at work: The validity and advantages of the latent class cluster approach. *Work & Stress*, 20, 288-301.
38. van Mierlo, H. Rutte, C.G., Vermunt, J.K., Kompier, M.A.J., and Doorewaard J.A.C.M. (2006). Individual autonomy in work teams: the role of team autonomy, self-efficacy, and social support. *European Journal of Work and Organizational Psychology*, 15, 281–299.
39. Galindo-Garre, F., and Vermunt, J.K. (2006). Avoiding boundary estimates in latent class analysis by Bayesian posterior mode estimation. *Behaviormetrika*, 33, 43-59.
40. Vermunt, J.K. and Kalmijn, M. (2006). Random-effects models for personal networks: An application to marital status homogeneity. *Methodology*, 2, 34-41.
41. Van Duijn, M.A.J., and Vermunt, J.K. (2006). What is special about social network analysis? *Methodology*, 2, 2-6.
42. Vermunt, J.K. and Van Duijn, M.A.J., (2006). Editorial special issue on “Social Network Analysis”. *Methodology*, 2, 1-1.
43. Lee, H.-K., Baillargeon, R.H., Vermunt, J.K., Wu, H.-X., and Tremblay, R.E., (2007). Age differences in the prevalence of physical aggression among 5- to 11-year-old Canadian boys and girls. *Aggressive Behavior*, 33, 26-37.
44. Kalmijn, M., and Vermunt, J.K. (2007). Homogeneity of social networks by age and marital status: A multilevel analysis of ego-centered networks. *Social Networks*, 29, 25-43.
45. Bouwmeester, S., Vermunt, J.K., and Sijtsma, K. (2007). Development and individual differences in transitive reasoning: A fuzzy trace theory approach. *Developmental Review*, 27, 41-74.
46. Paas, L.J., Bijmolt, T.H, and Vermunt, J.K. (2007). Acquisition patterns of financial products: A longitudinal investigation. *Journal of Economic Psychology*, 28, 229-241.
47. Van Ginkel, J.R., Van der Ark, L.A., Sijtsma, K., and Vermunt, J.K. (2007). Two-way imputation: A Bayesian method for estimating missing scores in tests and questionnaires, and an accurate approximation. *Computational Statistics and Data Analysis*, 51, 4013-4027.
48. Vermunt, J.K. (2007). A hierarchical mixture model for clustering three-way data sets. *Computational Statistics and Data Analysis*, 51, 5368-5376.
49. Infant-Rivas, C., Vermunt, J.K., and Weinberg, C.R. (2007). Excess transmission of the NQO1 C609T polymorphism in families of children with acute lymphoblastic leukemia. *American Journal of Epidemiology*, 165, 1248-1254.
50. Van Abswoude, A., Vermunt, J.K., and Hemker, N. (2007). Assessing dimensionality by maximizing H coefficient based objective functions. *Applied Psychological Measurement*, 31, 308-330.
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  32. Riggi, M., and Vermunt, J.K. (2012). Students reading motivation: A multilevel mixture

- factor analysis. In: W.A. Gaul, A. Geyer-Schulz, L. Schmidt-Thieme, and J. Kunze (eds.), *Challenges at the Interface of Data Analysis, Computer Science, and Optimization; Studies in Classification, Data Analysis, and Knowledge Organization*, 567-573. Berlin: Springer.
33. Gudicha, D.W., and Vermunt, J.K. (2013). Mixture model clustering with covariates using adjusted three-step approaches. B. Lausen, D. van den Poel, and A. Ultsch (eds), *Algorithms from and for Nature and Life; Studies in Classification, Data Analysis, and Knowledge Organization*. 87-93. Heidelberg: Springer-Verlag GmbH.
  34. Vermunt, J.K. (2013). Categorical response data. In: M.A. Scott, J.S. Simonoff, and B.D. Marx (eds.), *The SAGE Handbook of Multilevel Modeling*, 287-298. Thousand Oaks, CA: Sage.
  35. Vermunt, J.K. (in press). Latent class scaling models for longitudinal and multilevel data sets. In: G. R. Hancock and G. B. Macready (eds.), *Advances in latent class analysis: A Festschrift in honor of C. Mitchell Dayton*. Charlotte, NC: Information Age Publishing, Inc.
  36. Vermunt J.K. (in press). Latent GOLD. In: W.J. van der Linden and R.K. Hambleton (eds.), *Handbook of item response theory: Models, statistical tools, and applications*, . Taylor and Francis.

### Encyclopedia Entries

1. Vermunt, J.K. (2001). Event history analysis, selectivity. Smetser and Baltes (eds), *International Encyclopedia of the Social and Behavioral Sciences*. Vol 7, 7956-7962. Elsevier
2. Vermunt, J.K., and Magidson, J. (2004). Latent class analysis. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 549-553. Thousand Oakes, CA: Sage Publications.
3. Vermunt, J.K., and Magidson, J. (2004). Latent variable. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 555-556. Thousand Oakes, CA: Sage Publications.
4. Vermunt, J.K., and Magidson, J. (2004). Local independence. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 580-581. Thousand Oakes, CA: Sage Publications.
5. Vermunt, J.K., and Magidson, J. (2004). Non-parametric random-effects model. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 732-733. Thousand Oakes, CA: Sage Publications.
6. Vermunt, J.K. (2004). Latent Markov model. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 553-554. Thousand Oakes, CA: Sage Publications.
7. Vermunt, J.K. (2004). Latent profile model. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 554-555. Thousand Oakes, CA: Sage Publications.
8. Vermunt, J.K. (2004). Mover-stayer model. M.S. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 665-666. Thousand Oakes, CA: Sage Publications.
9. Vermunt, J.K. (2004). Mixture model. M. Lewis-Beck, A. Bryman, and T.F. Liao (eds), *The Sage Encyclopedia of Social Sciences Research Methods*, 653. Thousand Oakes, CA: Sage Publications.
10. Vermunt, J.K., and Magidson, J. (2005). Structural equation models: Mixture models. B. Everitt and D. Howell, (eds), *Encyclopedia of Statistics in Behavioral Science*, 1922–

1927. Wiley: Chichester, UK.
11. Vermunt, J.K., and Moors, G. (2005). Event history analysis. B. Everitt and D. Howell (eds), *Encyclopedia of Statistics in Behavioral Science*, 568–575. Wiley: Chichester, UK.
  12. Vermunt, J.K. (2005). Log-linear models. B. Everitt and D. Howell (eds), *Encyclopedia of Statistics in Behavioral Science*, 1082-1093. Wiley: Chichester, UK.
  13. Vermunt, J.K., and Magidson, J. (2005). Latent variable. B. Everitt and D. Howell (eds), *Encyclopedia of Statistics in Behavioral Science*, 1036-1037. Wiley: Chichester, UK.
  14. Vermunt J.K. (2010). Latent class models. In: P. Peterson, E. Baker, B. McGaw, (eds.), *International Encyclopedia of Education*, Volume 7, 238-244. Oxford: Elsevier.
  15. Vermunt J.K. (2014). Latent class model. In: A.C. Michalos (ed.), *Encyclopedia of Quality of Life Research and Well-Being Research*, 3509-3515. Dordrecht: Springer.
  16. Kankaras, M., and Vermunt J.K. (2014). Simultaneous latent class analysis across groups. In: A.C. Michalos (ed.), *Encyclopedia of Quality of Life and Well-Being Research*, 5969-5974. Dordrecht: Springer.

Software and user's manuals:

1. Vermunt, J.K. (1991). *Causal log-linear modelling with latent variables and missing data using LOGLAT*. Voorburg: Hoofdafdeling Bevolkingsstatistieken, CBS.
2. J.K. Vermunt (1993). *LEM 0.1: Log-linear and event history analysis with missing data using the EM algorithms*. Tilburg: Tilburg University.
3. J.K. Vermunt (1997). *LEM 1.0: A general program for the analysis of categorical data*. Tilburg: Tilburg University.
4. Vermunt, J.K., and Magidson, J. (2000). *Latent GOLD User's Manual*. 185 pages. Belmont, MA: Statistical Innovations Inc.
5. Vermunt, J.K., and Magidson, J. (2003). *Addendum to Latent GOLD User's Guide: Upgrade for Version 3.0*. 44 pages. Belmont, MA: Statistical Innovations Inc.
6. Vermunt, J.K., and Magidson, J. (2003). *Latent GOLD Choice User's Guide*. 99 pages. Belmont, MA: Statistical Innovations Inc.
7. Vermunt, J. K., and Magidson, J. (2005). *Technical Guide for Latent GOLD 4.0: Basic and Advanced*. Belmont, MA: Statistical Innovations Inc.
8. Vermunt, J. K., and Magidson, J. (2005). *Latent GOLD 4.0 User's Guide*. Belmont, MA: Statistical Innovations Inc.
9. Vermunt, J. K., and Magidson, J. (2005). *Technical Guide for Latent GOLD Choice 4.0: Basic and Advanced*, Belmont, MA: Statistical Innovations Inc.
10. Vermunt, J. K., and Magidson, J. (2005). *Latent GOLD Choice 4.0 User's Guide*. Belmont, MA: Statistical Innovations Inc.
11. Vermunt, J. K. and Magidson, J. (2008). *LG-Syntax User's Guide: Manual for Latent GOLD 4.5 Syntax Module*, Belmont, MA: Statistical Innovations Inc.
12. Vermunt, J. K. and Magidson, J. (2013). *Latent GOLD 5.0 Upgrade Manual*, Belmont, MA: Statistical Innovations Inc. (see here).
13. Vermunt, J. K. and Magidson, J. (2013). *Technical Guide for Latent GOLD 5.0: Basic, Advanced, and Syntax*. Belmont, MA: Statistical Innovations Inc.
14. Vermunt, J. K. and Magidson, J. (2013). *LG-Syntax User's Guide: Manual for Latent GOLD 5.0 Syntax Module*, Belmont, MA: Statistical Innovations Inc.
15. Vermunt, J. K. and Magidson, J. (2014). *Latent GOLD Choice 5.0 Upgrade Manual*, Belmont, MA: Statistical Innovations Inc.

Other publications (most in Dutch):

1. Latten, J.J., and Vermunt, J.K. (1991). Jong en alleenstaand in de jaren '80 en '90. *Maandstatistiek van de Bevolking*. CBS, Voorburg.
2. Vermunt, J.K. (1990). Het aantal jonge moeders neemt weer toe. *Maandstatistiek van de Bevolking*. CBS, Voorburg.
3. Vermunt, J.K. (1990). Kleinere verschillen in huishoudensverdeling tussen gemeenten verwacht. *Maandstatistiek van de Bevolking*. CBS, Voorburg.
4. Vermunt, J.K. (1991). Een multivariaat model voor de geboorte van het eerste kind. *Maandstatistiek van de Bevolking* 91/5, 22-33. CBS, Voorburg.
5. Vermunt, J.K. (1991). Een model ter bepaling van de cohortcomponent in de sterfte. L. van Leeuwen en H. Cruijssen (eds), *Sterfte en gezondheid: nu en straks*, 25-46. NIDI, Den Haag.
6. Vermunt, J.K. (1991). Leefstijl en demografisch gedrag: een toepassing van latente-klasse-analyse. *Maandstatistiek van de Bevolking* 91/11, 13-25. CBS, Voorburg.
7. Vermunt, J.K. (1992). Geboorte: ontwikkelingen in het verleden en toekomstverwachtingen. *Maandstatistiek van de Bevolking* 92/1, 18-28. CBS, Voorburg.
8. Vermunt, J.K. (1993). De geboorte van het eerste kind: uitstel of afstel. *Gezin*, 5, 31-52.
9. Vermunt, J.K., and Georg, W. (1995). Die Analyse kategorialer Panel-Daten mit Hilfe von log-linearen Kausalmodellen mit latenten Variablen: Eine Anwendung am Beispiel der Skala 'Jugendzentrismus'. *ZA-Information*, 36, 61-90.
10. Magidson, J., and Vermunt, J. (1999). Latent class factor analysis. *Methods of Psychological Research*, 4, 46-47
11. Vermunt, J. (1999). On the use of order-restricted latent class models for defining and testing non-parametric IRT models. *Methods of Psychological Research*, 4, 71.
12. Vermunt, J.K., and J. Magidson (2000). Graphical displays for latent class cluster and latent class factor models. W. Jansen and J.G. Bethlehem (eds), *Proceedings in Computational Statistics 2000*, 121-122. Statistics Netherlands. ISSN 0253-018X.
13. Magidson, J. and Vermunt, J. (2000). Bi-plots and related graphical displays based on latent class factor and cluster models. J. Blasius, J.Hox, E. de Leuw, and P. Schmith (eds), *Proceedings of the Fifth International Conference on Logic and Methodology*, TT-Publikations.
14. Aris, E.M., Hagenaars, J.A.P., Croon, M., and Vermunt, J.K. (2000). The use of randomisation for logit and logistic models, results from a simulation study. J. Blasius, J.Hox, E. de Leuw, and P. Schmith (eds), *Proceedings of the Fifth International Conference on Logic and Methodology*, TT-Publikations.
15. Galindo-Garre, F., Vermunt, J.K., and Ato-Garcia, M. (2000). Bayesian approaches to the problem of sparse tables in log-linear modelling. J. Blasius, J.Hox, E. de Leeuw, and P. Schmidt (eds), *Proceedings of the Fifth International Conference on Logic and Methodology*, TT-Publikations.
16. Magidson, J. and Vermunt, J.K. (2002). Latent class modeling as a probabilistic extension of K-means clustering. *Quirk's Marketing Research Review*, March 2002, 20 & 77-80.
17. Van Abswoude, A., Vermunt, J.K., Hemker, B., Van der Ark, A.L. (2002). *Mokken scale analysis by hierarchical clustering procedures*. CITO-reeks 2002-2. Arnhem: CITO.
18. Vermunt, J.K. (2003). *Toepassingen van latent klasse analyse in sociaal wetenschappelijk onderzoek*. Oratie, 3 oktober, Universiteit van Tilburg.
19. Magidson, J., Eagle, T., and Vermunt, J.K. (2003). New developments in latent class choice modeling. *April 2003 Sawtooth Software Conference Proceedings*, 89-112.
20. Vermunt, J.K. (2004). Toepassingen van latent klasse analyse in sociaal wetenschappelijk

- onderzoek (Rede van 3-10-2003). *Sociale Wetenschappen* 47, 2-14.
21. Magidson, J., and Vermunt J.K. (2004). A nontechnical introduction to latent class models. *DMA Research Council Journal*.
  22. Magidson, J., Eagle, T., and Vermunt, J.K. (2005). Using parsimonious conjoint and choice models to improve the accuracy of put-of-sample share predictions. Paper presented at the ART Forum 2005.
  23. Vermunt, J.K. (2005). Book review of "Analyzing Categorical Data" by Jeffrey S. Simonoff. *Statistics in Medicine*, 24, 1289-1290.
  24. Vermunt, J.K., Bijmolt, T.H.A., and Paas, L.J. (2006). Multi-niveau latent klasse analyse: met een toepassing bij het simultaan clusteren van landen en consumenten. A.E. Bronner, P. Dekker, E. de Leeuw, L.J. Paas, K. de Ruyter, A. Smidts and J.W. Wieringa (eds), *Ontwikkelingen in Marktonderzoek, Jaarboek 2006*, 161-173. Haarlem: Spaar en Hout.
  25. Notelaers, G., De Witte, H., Vermunt, J.K., Einarsen, S. (2006). Pesten op het werk, gewikt en gewogen. Een latente-klassen benadering op basis van de Negative Acts-vragenlijst. *Gedrag en Organisatie*, 44-63.
  26. Vermunt, J.K. (2007). Multilevel mixture item response theory models: an application in education testing. Bulletin of the International Statistical Institute, 56th Session, paper #1253, 1-4. ISI 2007: Lisboa, Portugal.
  27. Magidson, J., and Vermunt, J.K. (2007). Use of a random intercept in latent class regression models to remove response. Bulletin of the International Statistical Institute, 56th Session, paper #1604, 1-4. ISI 2007: Lisboa, Portugal.
  28. Lukocienė, O., and Vermunt, J.K. (2007). A comparison of parametric and nonparametric approaches for two-level random coefficient model. Bulletin of the International Statistical Institute, 56th Session, paper #927, 1-4. ISI 2007: Lisboa, Portugal.
  29. Magidson, J., and Vermunt, J.K. (2007). Removing the scale factor confound in multinomial logit choice models to obtain better estimates of preference. *October 2007 Sawtooth Software Conference Proceedings*.
  30. Dias, J.G., Vermunt, J.K., and Ramos, S. (2008). Heterogeneous hidden markov models. *Compstat 2008 Proceedings*
  31. Magidson, J., Thomas, D., and Vermunt, J.K. (2009). A new model for the fusion of maxdiff scaling and ratings data. *2009 Sawtooth Software Conference Proceedings*, 83-103.
  32. Pirani, E., Schifini D'Andrea, S. Vermunt, J.K., (2009). Poverty and social exclusion in Europe: differences and similarities across regions. Paper presented at XXVI IUSSP, Marrakech.

## PAPER PRESENTATIONS

1993

- Invited presentation "Piecewise constant rate models with missing data" at Workshop "Panelanalyse bei nicht-metrische Zielvariablen", July 28-29 1993, Bielefeld, Germany.

1994

- Invited presentation "Causal log-linear modelling with missing data", "15. Tagung der Arbeitsgruppe Structurgleichungsmodelle" May 6-7, 1994, Chemnitz, Germany.
- Presentation "Causal log-linear modelling with missing data" at The XIII World Congress of Sociology, July 18-23, 1994, Bielefeld, Germany.
- Presentation "Discrete-time discrete-state latent Markov models with time-constant and time-varying covariates" at 9th Meeting of the Psychometric Society, July 4-7, 1995, Leiden, The Netherlands. (with R. Langeheine and U. Böckenholt)

1995

- Invited presentation "Log-linear and event history analysis using the LEM program" at 9th Meeting of the Psychometric Society, July 4-7, 1995, Leiden, The Netherlands.
- Presentation "Event history analysis of author's reputations" at the 1995 ASA Annual Meeting, August 19-23, Washington, D.C. (with C. van Rees).
- Invited presentation "The analysis of categorical data subject to measurement error and partial nonresponse by means of causal log-linear models" at International Conference on Survey Measurement and Process Quality, Bristol U.K., 1-4 April 1995. (with J.A. Hagenaars)
- Presentation "Log-linear and event history analysis with the LEM program" at Lunch meeting of the Department of Research Methods, 11 April 1995, University of Utrecht, The Netherlands.
- Presentation "Directed log-linear models: general systems of logit equations with latent variables and missing data" at 9th Meeting of the Psychometric Society, July 4-7, 1995, Leiden, The Netherlands. (with J.A. Hagenaars)

1996

- Presentation "A general latent class approach to unobserved heterogeneity in the analysis of event history data" at Fourth International Social Science Methodology Conference, July 1-5, 1996, Essex, United Kingdom.
- Presentation "Recent developments in the log-linear analysis of longitudinal data" at Fourth International Social Science Methodology Conference, July 1-5, 1996, Essex, United Kingdom. (with J. Hagenaars and T. Heinen).
- Invited presentation "Using latent class models in the analysis of event history data" at Meeting of the Social Sciences section of the Dutch Statistical Society titled "Recent Developments in the Analysis of Longitudinal Data", March 13, 1996.
- Presentation "Using latent class models in the analysis of event history data" at Symposium on "Approaches to the Analysis of Categorical Longitudinal Data", Tilburg, April 10-11, 1996.
- Presentation "Causal log-linear models" at Symposium on "Approaches to the Analysis of Categorical Longitudinal Data", Tilburg, April 10-11, 1996. (with J.A. Hagenaars and M. Croon)

1998



- Presentation “A non-parametric approach to unobserved heterogeneity in the analysis of event history data” at Sociology seminar, January 22, 1998, Bremen University, Germany.
- Invited presentation “A general non-parametric approach for ordinal categorical data” at the Spring Meeting of the Methodology Section of the American Sociological Association. April 4-5, 1998, Chicago.
- Discussant of three papers in the session “Multistate/multitrait methods” at 1998 Meeting of the Psychometric Society. June 17-21 1998. Urbana-Champaign.
- Presentation “Latent variable modelling with the LEM program” at the 1998 Meeting of the Psychometric Society. June 17-21, 1998. Urbana-Champaign.
- Presentation “RC association models with order-restricted row and column scores” at SMABS conference. July 13-15, 1998, Leuven.

#### 1999

- Invited presentation “Latent class cluster, factor and regression analysis” at Conference on Large Scale Data Analysis. May 25-29, 1999. Central Archive, Cologne.
- Presentation “Latent class cluster, factor and regression Analysis” at Conference of the European Psychometric Society. July 19-22, 1999. Lüneburg.
- Presentation “On the use of order-restricted latent class models for estimating and testing non-parametric IRT models” at Conference of the European Psychometric Society. July 19-22, 1999. Lüneburg.
- Presentation “Analysis of panel data with LEM.” at Working group on Longitudinal Research. Utrecht, December 14, 1999.

#### 2000

- Presentation “Graphical displays for latent class cluster and latent class factor models” at COMPSTAT 2000 Conference, August 21-25, 2000, Utrecht (with J. Magidson).
- Demonstration of the Latent GOLD software at the spring meeting of the Dutch Classification Society (VOC) on "Mixture Models", Universiteit Groningen, April 7, 2000.
- Invited presentation “Modeling joint and marginal distributions in the analysis of partially observed categorical panel data” at Workshop on Item and Unit-Nonresponse in Panel Surveys. Deutsches Institut für Wirtschaftsforschung, May 25-26, 2000, Berlin.
- Presentation “Latent class cluster analysis” at Fifth International Conference on Logic and Methodology, October 3-6, 2000, Cologne.
- Invited presentation “Modeling Correlated Events: A Comparison of Parametric and Non-Parametric Random-Effects Approaches” at Fifth International Conference on Logic and Methodology, October 3-6, 2000, Cologne.
- Invited presentation “Latent class modelling with the Latent GOLD program” at Najaarsbijeenkomst SWS-VVS Utrecht, November 15, 2000.
- Invited presentation “Cluster analysis with latent class models: problems and possible solutions” at “Klassifikation und Mixture Modeling” Workshop im Landhaus Rothenberge vom 22 bis 24 November.

#### 2001

- Presentation “Modelling dependent observations: Comparing parametric and non-parametric random-coefficient approaches” at Third International Conference on Multilevel Analyses, Amsterdam, April 10 (with L van Dijk)
- Presentation “Latent class analysis with sampling weights” at ASA Methodology Section annual meetings. University of Minnesota, May 4-5.
- Presentation “Using latent class models in psychiatric research” at research seminar

Department of Psychiatry, McGill University, Montreal, May 9.

- Presentation “Latent class based networks classification” at Mixture Modeling Conference, Universität der Bundeswehr, Hamburg, Germany. July 23-28
- Invited presentation “Latent class models for classification” at Najaarsbijeenkomst SWS-VVS Utrecht, October 24, 2001.

2002

- Presentation “Factor analysis with categorical indicators: A comparison between traditional and latent class approaches” at SMABS conference. June 30 - July 3 2002, Tilburg University.
- Discussant of “Latent models for complex samples” at Joint Statistical Meetings, August 11-15 2002, New York.
- Presentation “Factor analysis with categorical indicators: A comparison between traditional and latent class approaches” at Annual meeting of the American Sociological Association, August 16-19 2002, Chicago. (with Jay Magidson)
- Invited presentation “Multilevel latent class models” Annual Meeting of the Japanese Behaviormetric Society, September 18-21, Tama University, Tokyo.
- Invited presentation “An efficient EM algorithm for Latent Markov and other types of LC models for dependent observations” at Workshop “Latent class analysis: state of art and perspective for the future”, October 10-12, 2002, Leibniz Institute for Science Education, IPN Kiel, Germany.
- Presentation “Multilevel latent class models” and organization of the Autumn meeting of the SWS-VVS on “Application of multilevel and other types of random-coefficient models”, November 13, 2003, Utrecht, Netherlands.
- Invited presentation “Latent class and other types of mixture models with the Latent GOLD program” at Meeting of Computational Statistics Section of the Royal Statistical Society, London, 27 November, 2003.

2003

- Keynote address “Application of latent class analysis in social science research” at ECSQARU conference (=artificial intelligence), July 2-4, Aalborg, Denmark.
- Keynote address “Modelos de clase latent para datos multinivel (Latent class models for multilevel data)” at the conference “Metodologia de las Ciencias del Comportamiento y la Salud”, September 14-19, 2003, Valencia, Spain
- Inauguration Lecture “Toepassingen van latente klasse analyse in sociaal wetenschappelijk onderzoek (Applications of latent class analysis in social science research)”, October 3, 2003, Tilburg.

2004

- Presentation “A multilevel extension of the latent class model” at ZUMA Mannheim, Kolloquium, February 19, 2004.
- Invited presentation “Hierarchical Mixture Models for Nested Data Structures” and session organizer at Joint meeting of the GfKI and VOC, University Dortmund, March 9-11 2004
- Invited presentation “Latent class growth models for categorical and limited dependent variables” at NOSMO 2004 meeting, November 12, Utrecht

2005

- Keynote address “Multilevel Latent Class and Mixture Models” at Fifth International

Amsterdam Conference on Multilevel Analysis, March 21–23 2005

- Invited presentation “Lord’s paradox revisited: Implications for panel data analysis using hierarchical models” at IMPS 2005, the 14th International Meeting and the 70th Annual Meeting of the Psychometric Society, July 4–9 2005, Tilburg University
- Presentation “Hierarchical Mixture Models for Nested Data Structures” at the EI/TI Econometrics Seminars, Fall 2005, Erasmus University Rotterdam, October 13, 2005
- Presentation “Latent Class Analysis, with Special Attention to Longitudinal and Experimental Design Applications” at Colloquium for the J.F. Schouten School, TU Eindhoven, October 27 2005
- Invited presentation “Lord’s paradox revisited” at NOSMO Methodologendag 2005, November 25 2005, Radboud University, Nijmegen

2006

- Invited presentation “Multilevel variants of discrete and continuous latent variable models, with an application in educational Assessment” at Symposium on “Methodological tools for accountability systems in education”, CRELL, Ispra, Italy, February 6-8, 2006.
- Presentation “Multilevel variants of discrete and continuous latent variable models, with an application in educational Assessment” at Meeting of the Royal Statistical Society Leeds & Bradford Local Group, Leeds, March 22, 2006.
- Presentation “Applications of Latent Class Analysis” at Seminar at University of Antwerp, Department of Mathematics, Statistics and Actuarial Sciences, June 22, 2006
- Invited presentation “Multilevel variants of continuous latent variable models based on discrete random effects” and session organizer at Compstat 2006, August 28 - September 1, University of Rome “La Sapienza”
- Presentation “Latent Class Analysis in Medical Research” at Meeting “UZA Research Club”, University Hospital Antwerp, 13 december 2006

2007

- Presentation “Latent Class Analysis Tools for Estimation of Measurement Error with an Application to the CPS Employment Measurement” at U.S. Census Bureau, January 8 2007, Washington DC.
- Discussant of paper “Corrigeren voor meetfouten met behulp van multi-actor data: Wat leert het ons over de invloed van ouderlijke hulpbronnen op het onderwijssucces van kinderen?” at DANS symposium Multi-actor data in survey onderzoek: moeilijkheden en mogelijkheden”, Tilburg University, January 17 2007 .
- Presentation “Multilevel Growth Mixture Models for Classifying Group-level Observations” at Seminario, Dipartimento di Scienze Statistiche, Università degli Studi di Padova, febbraio 22 2007
- Presentation “Introduction to latent class analysis” at seminar of the Department of Statistics, University of Bologna, February 23 2007.
- Invited presentation “Multilevel Growth Mixture Models for Classifying Group-level Observations” at NOSMO Methodologendag, March 22, 2007, Utrecht
- Presentation “Multilevel Variants of Discrete and Continuous Latent Variable Models: The Latent GOLD Framework” at ETEW - Econometrics and Statistics Seminar, April 27 2007, Katholieke Universiteit Leuven
- Presentation “Multilevel Variants of Discrete and Continuous Latent Variable Models: The Latent GOLD Framework” at Statistics Research Thursday Seminar Series, May 2 2007, Social Statistics, University of Southampton

- Presentation “A comparison of dimensionality assessment and graphical display methods for sets of categorical variables” at “Correspondence Analysis and Related Methods (CARME 2007)” conference, June 25-27 2007, Erasmus University Rotterdam
- Keynote address at “Multilevel Variants of Discrete and Continuous Latent Variable Models: The Latent GOLD Framework” at XV Congresso Anual da Sociedade Portuguesa de Estatística, 19-21 August 2007, Lisboa, Portugal.
- Invited presentation “Multilevel Mixture Item Response Theory (IRT) Models: An Application in Educational Testing” at 56th Session of the International Statistical Institute, August 22-29 2007, Lisboa, Portugal.
- Discussant of paper “The Impact of Events on Attitudes: Real-time Measurement” at MESS Workshop, Tilburg University, August 31 and September 1, 2007.
- Keynote address “Multilevel Variants of Discrete and Continuous Latent Variable Models” at “Statistiktag 2007, Kongress der Österreichischen Statistischen Gesellschaft” September 18-20, 2007 Johannes Kepler Universität Linz
- Presentation “Estimating the Measurement Error in the Current Population Survey Labor Force: A Mixture Latent Markov Modeling Approach With Sample Design” at U.S. Census Bureau Demographic Statistical Methods Division Symposium, October 24 2007 Washington DC.
- Invited presentation “Multilevel Mixture Factor-analytic Models” at Symposium on mixture modeling with special interest to applications in educational measurement and bioinformatics, November 20-21 2007, Katholieke Universiteit Leuven

2008-2012

- **To be updated.** Last presentation was a Keynote at the Mixture Modeling conference in September 2012 in Catania.

2013

- Invited talk at Italian Statistical Society Meeting in Brescia
- Keynote at CLADAG in Modena
- Presentations at CBS Den Haag & Heerlen
- Invited presentation in Workshop on Categorical Data Analysis at London School of Economics

2015

- Invited talk at Conference on Person-Oriented Research, May 8-9, University of Vienna
- Keynote speaker at the meeting of the Classification Society, June 3-6, McMaster University, Hamilton, Canada
- Talk at Department of Educational Science and Psychology, Freie Universität Berlin, July 16
- Short course (long talk) at GGD Amsterdam, October 5