Curriculum Vitae of L. Andries van der Ark

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ORCID:	0000-0003-3131-7943

Education

2018 Leergang academisch leiderschap [Course Academic Leadership], University of Amsterdam

2015 Basiskwalificatie onderwijs [University Teaching Qualification], University of Amsterdam

1999 PhD in the Social Sciences, Utrecht University (Advisors: Peter van der Heijden and Ab Mooijaart)

1994 Master's Degree in Psychology,University of Amsterdam.

Career

2020 - present. Full professor in Psychometrics at the Research Institute of Child Development and Education, University of Amsterdam, The Netherlands.

2015 - 2020. Professor by special appointment (Kohnstamm Chair) in Quantitative Research Methods at the Department of Child Development and Education, University of Amsterdam, The Netherlands.

2014 - 2020. Associate professor at the Department of Child Development and Education, University of Amsterdam, The Netherlands.

2006 - 2014. Associate professor at the Department of Methodology and Statistics, Tilburg University, The Netherlands.

2002 - 2006. Visiting professor at the Faculty of Political and Social Sciences of the Catholic University of Brussels, Belgium.

2000 - 2006. Assistant professor at the Department of Methodology and Statistics, Tilburg University, The Netherlands.

1999 - 2002. Teaching assistant at the Faculty of Political and Social Sciences of the Catholic University of Brussels, Belgium.

1998 - 2003. Postdoctoral researcher at the Department of Methodology and Statistics, Tilburg University, The Netherlands.

1998. Visiting researcher at the Central Archive for Social Research in Cologne, Germany. Visit supported by the Training and Mobility of Researchers (TMR) Programme of the EU.

1994 - 1998. PhD student at the Department of Methodology and Statistics, Utrecht University.

1987 - 1994. Student and free-lance data analyst at the Department of Psychological Methodology, University of Amsterdam.

Key publications

Van der Ark, L. A. (2005). Stochastic ordering of the latent trait by the sum score under various polytomous IRT models. *Psychometrika, 70*, 283-304. https://doi.org/10.1007/s11336-000-0862-3

Van der Ark, L. A. (2007). Mokken scale analysis in R. *Journal of Statistical Software, 20* (11), 1-19. https://doi.org/10.18637/jss.v020.i11

Van der Ark, L. A. & Bergsma, W. P. (2010). A note on stochastic ordering of the latent trait using the sum of polytomous item scores.*Psychometrika, 75*(2), 272-279. doi: 10.1007/S11336-010-9147-7 http://doi.org/10.1007/S11336-010-9147-7

Van der Ark, L. A., Van der Palm, D. W., & Sijtsma, K. (2011). A latent class approach to estimating test-score reliability.*Applied Psychological Measurement, 35*(5), 380-392. http://doi.org/10.1177/0146621610392911

Sijtsma, K. & Van der Ark, L. A. (2020),*Measurement models for psychological attributes.* Chapman & Hall/CRC Press. (link)

Grants

2024 *Multistage Computerized Adaptive Testing in Qualtrics.* SoBe DSC RPA grant for Interdisciplinary Data Science projects (€5,000). With Goan Booij, Brenda Jansen, Hao Nguyen, & Bieke Schreurs) Granted by RPA "Youth Digitality".

2023 *Joint relations among digital-lteracy, time use, and academic performance in primary and secondary education.* (€450,000 + funding for data collection). With Brenda Jansen, Hao Nguyen, & Bieke Schreurs) Granted by RPA "Youth Digitality".

2019 *De genealogie van de Nederlandse pedagogiek.* Travel Funds (€102) Granted by Stichting Kohnstamm Fonds, Amsterdam.

2018 *Sample-size planning in inter-rater reliability studies.* Travel Funds (€113) Granted by Stichting Kohnstamm Fonds, Amsterdam.

2017 *Relatie Vragenlijst Leerlingen (RVL)* [Relation Questionnaire Pupils]. Abbas-ontwikkelingsfonds (€14,900; with Helma M. Y. Koomen [PI], Marjolein Zee, & Debora Roorda). Granted by the Abbas Fonds.

2017 *Standard errors in scalability coefficients in two-level Mokken scale analysis.* Travel Funds (€560) Granted by Stichting Kohnstamm Fonds, Amsterdam.

2016 *Betrouwbaarheid Landelijk Instrumentarium Jeugdstrafrechtketen (LIJ)* [Reliability of the Landelijk Instrumentarium Jeugdstrafrechtketen (LIJ)] (with Terrence D. iJorgensen & Claudia E. van der Put). WODC-project (€58,914.90 + €9.075). Granted by the Ministrie van Veiligheid en Justitie [Dutch Ministry of Security and Justice].

2016 *Realistische data, perfecte feedback* [Realistic data, perfect feedback] (with Niels Smits). Grassroots project (€1.000). Granted by the 'Expertise Groep ICT voor Onderwijs', University of Amsterdam.

2016 *Scaling Methods for multilevel test data.* PhD project (€168.735 Research Talent). Granted by the Netherlands Organization for Scientific Research (NWO).

2016 *The effect of cognitive symptoms on self-report personality data quality* (with J. Conijn [main applicant] and P. van Spinhoven). Data collection facilities, granted by Netherlands Study of Depression and Anxiety (NESDA), Amsterdam

2015 *'Voorspellende waarde, effecten en onderliggende mechanismen van selectieprocedures in de lerarenopleidingen* (with J. Meijer [main applicant], M. Imandt, M. Snoek, and F. van Blankenstein). Research fund (€598.200) granted by Nationaal Regieorgaan Onderwijsonderzoek (NRO).

2014 *Accuracy, Bias, and Precision in Classical Test Theory.* Travel Funds (€786) Granted by Stichting Kohnstamm Fonds, Amsterdam.

2013 *Improving Norms for Psychological and Educational Tests.* PhD project (€168.735 Research Talent). Granted by the Netherlands Organization for Scientific Research (NWO).

2013 *Graduate Programme Application 2013 BOO of Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS).* Graduate Program 2013 BOO scholarship for four PhD projects (with W. Heiser [main applicant] and IOPS Board; €800.000). Granted by the Netherlands Organization for Scientific Research (NWO).

2009 *Project TESTGEN: Software for automated practicals and examinations.* Financed by SpITs, UvT. (with J. van der Beesen and W. Stumpel; €6.000).

2009 *Interactive Learning: Using Clickers in Large Lectures.* Education Project "Actief Leren". Granted by the Faculty of Social and Behavioral Sciences, Tilburg University (€6.000).

2009 *Imputation of Missing Data Using Mixture models* (with J. K. Vermunt [main applicant] and K. Sijtsma; €207.155). PhD project. Granted by the Netherlands Organization for Scientific Research.

2008 *Test Construction Using Marginal Models* (with M. A. Croon and K. Sijtsma). PhD project (€186.995). Granted by the Netherlands Organization for Scientific Research.

2007 *Higher Measurement Quality of Tests and Questionnaires by Means of More Powerful Statistics* (with K. Sijtsma). PhD project. Granted by Tilburg University, The Netherlands.

2005 *Detection of Outliers in Test and Questionnaire and Survey Data* (with K. Sijtsma [main applicant]). PhD project. Granted by the Netherlands Organization for Scientific Research.

2004 *Simulation and Gaming.* Share of €3786 for the development of automated computer practicals for the course "Test Theory and Test Diagnostics". Granted by Apollo, The Netherlands.

2003 *Models and Methods for Invariant Item Ordering* (with K. Sijtsma and J. K. Vermunt). PhD project. Granted by Tilburg University, The Netherlands.

2002 *Missing Data Analysis in Questionnaire Data* (with K. Sijtsma and J. K. Vermunt). PhD project. Granted by Tilburg University, The Netherlands.

1998 *Application of Models for Compositional Data on Comparative Data Sets.* Housing and financial support during a three-month research visit to Cologne. Granted by the Training and Mobility of Researchers (TMR) Programme of the EU.

Teaching

Teaching experience at pre-university, undergraduate, and graduate level, in lectures (including mass lectures attended by 900 students), tutorials, lab sessions, and workshops.

Courses

Courses up until 2014 were taught at Tilburg University unless indicated otherwise. Courses as of 2014 were taught at the University of Amsterdam.

2023 - present Beschrijvende statistiek [Descriptieve statistics]: coordinator, lecturer

2022 - present Recenseren van onderwijsonderzoek [Reviewing educational research]: coordinator, lecturer

2017, 2019 - present Testen en Meten [Testing and Measurement]: coordinator, lecturer

2017 - present Testen en Meten - UPvA [Testing and Measurement]: coordinator, lecturer

2021 - 2022 Testgebruik [Reviewing educational research]: coordinator, lecturer

2014-2019 Testconstructie en onderzoeksverslaglegging [Test construction and reporting research]: coordinator, lecturer

2016-2018 Ontwerpmethoden [Design Methods]: coordinator, lecturer.

2016-2018 Testleer en testgebruik [Test theory and test application]: coordinator, lecturer.

2014-2018 Testconstructie en onderzoekspracticum [Test construction and research practice]: coordinator, lecturer.

2014-2018 Methods and Statistics in Education Research: Generalised Linear Models: coordinator, lecturer, lab tutor.

2016 Toetsende statistiek [Confirmatory statistics]: coordinator.

2016 Toegepaste methodenleer en statistiek [Applied methods and statistics]: coordinator.

2015 Toegepaste methodenleer en statistiek [Applied methods and statistics]: coordinator, lecturer

2014 Applied mathematical Statistics for social and behavioral Sciences: lecturer, lab tutor.

2010-2014 Individual Assessment in Organizations: lecturer, lab tutor.

2005-2014 Individueel Onderzoeksvoorstel [Individual Research Proposals]: reviewer.

2004-2014 Testtheorie en testdiagnostiek [Test theory and Psychodiagnostics]: coordinator, lecturer, lab tutor.

2011 Research master: Research Skills: Programming in R: coordinator, lecturer.

2011 Research master: Structural Equation Modelling (partly): lecturer, lab tutor.

2007-2011 Research master: First-year paper: coordinator.

2007-2011 Research master: International traineeship: coordinator.

2007-2011 Research master: Intern Traineeship Year 1: coordinator.

2007-2011 Research master: Intern Traineeship Year 2: coordinator.

2007-2011 Research master: Master's Thesis: coordinator.

2005-2011 Research master: Academic Skills: Basic, Applied and Professional Ethics: lecturer.

2005-2011 Research master: Academic Skills: Programming: lecturer, lab tutor.

2007-2010 Research master: Research Skills: coordinator.

2007-2010 Research master: Optional Subject for Students in the Methodology and Statistics Track: coordinator.

2009 Statistics and Research Methods for Foreign Students: lecturer.

2004-2008 MTO-C [Analysis of variance]: tutor.

2002-2006 Unidimensional scaling: Factor analysis and PCA: coordinator, lecturer and lab tutor (KU Brussel).

1999-2006 Unidimensional scaling: Nonparametric item response theory: coordinator, lecturer and lab tutor (KU Brussel).

1999-2005 Testimonium Wiskunde [Mathematics Testimonial]: coordinator, lecturer.

2003 MTO-B [statistics introductory course]: coordinator, lecturer.

2001-2002 MTO-02 [descriptive statistics introductory course]: coordinator, lecturer, tutor.

Workshops

2019 Workshop De genealogie van de Nederlandse Pedagogiek (with Ernst Mulder), Garderen, The Netherlands (Workshop at the VBSP congres "Pedagoog durf te spelen")

2019 Workshop Nonparametric IRT and Mokken Scale Analysis, Hong Kong

2016 Workshop Consultation 2.0 *Missing data* (with N. Smits and T. D Jorgensen), Amsterdam

2016 Workshop Consultation 2.0 *Mokken scale analysis* (with K. Sijtsma), Amsterdam

2015 Workshop De VBSP en Kwantitatieve Onderzoeksmethodologie, Zeist, The Netherlands (Workshop at the VBSP congres "De Staat van de Pedagogiek")

2012 Workshop *Construction and Analysis of Tests and Questionnaires* (with W. H. M. Emons), Tilburg

2011 Workshop *Getting started with R*, Tilburg (Pre-conference workshop to the ASA conference)

2011 Workshop *Psychometric Computing*, Tübbingen, Germany.

2006 Workshop *Macros and Programming in SPSS*, Tilburg.

2003 Spring Seminar Course *generalized latent variable models* (with J. K. Vermunt), Cologne.

2000 IOPS postgraduate course *Generalized linear item response models* (with H. Kelderman, T. Heinen, & G. D. Mellenbergh), Amsterdam.

Advisor of Master students

2025 Lydia Klein Nibbelink (First-Year Thesis), Nadine Timans (Master's Thesis)

2024 Abouzar Sekhavat, Tianran Zhang, Daphne Linssen (First-Year Thesis), Efthimia Smixioti (Master's Thesis)

2023 Abouzar Sekhavat (First-Year Thesis)

2022 Tasos Psychogiopoulos (Master's Thesis), Aditi Bangale (First-Year Thesis)

2020 Chevy van Dorresteijn (Masters' Thesis)

2019 Zuwena Elshot (Masters' Thesis, second reader)

2018 Debby ten Hove (Masters' Thesis)

2017 Wiebe Korf, Priya Peters (Master's Thesis) Mengdi Chen (First-Year Thesis)

2016 Letty Koopman (Master's Thesis), Camiel van der Laan (Master's Thesis), Laura Kolbe (First-Year Thesis), Myrthe Bongaards (Traineeship)

2015 Daniela Crisan (Internal Trainbeeship, Master's Thesis)

2013 Robbie van Aert (Internal Traineeship); Linda Dominguez-Alvarez (Internal Traineeship); Chris Hartgerink (Internal Traineeship)

2012 Hannah Oosterhuis (Master's Thesis)

2011 Geert van Kollenburg (Internal Traineeship)

2010 Renske Kuijpers (Master's Thesis)

2009 Marie-Anne Mittelhaëuser (internal Traineeship); Ruud van Keulen (Internal Traineeship)

2008 Daniël van der Palm (Internal Traineeship, First-Year Paper); Hendrik Straat (Masters' Thesis)

2007 Hendrik Straat (First-Year Paper, Internal Traineeship)

2001 Mark van Diem (Masters' Thesis)

Service

Administrative Activities

2024-present Treasurer (Psychometric Society)

2023-present Chair of the Program Group *Methods and Statistics* (uniersity of Amsterdam)

2011-present Member Scientific Council (Cito)

2024-2025 Member Pre-selection Committee *VIDI, Social Sciences and Humanities* (NWO, Dutch Research Council)

2011-2013, 2022-2024 Member Program Committee (Psychometric Society)

2015-2024 Member Financial Committee (Psychometric Society)

2019-2023 Psychometric advisor (Expertgroep Toetsen Primair Onderwijs [Expert Group Testing Primary Education], Ministry of Education, Culture and Science)

2019-2023 Backup member 'Universitaire Commissie Onderwijs' [University Committee Education](University of Amsterdam)

2018-2023 Member 'Financiële Commissie FMG' [Financial Committee Faculty of Social and Behavioral Sciences] (University of Amsterdam)

2018-2023 Director Graduate School of Child Development and Education (University of Amsterdam)

2022 Member Pre-selection Committee *VICI, Social Sciences and Humanities* (NWO, Dutch Research Council)

2017-2018 Director PhD program Child Development and Education (University of Amsterdam)

2015-2017 Member Editorial Council (Psychometric Society)

2014-2017 Chair Publication Committee (Psychometric Society)

2014-2017 Member Board of Trustees (Psychometric Society)

2016 Member Pre-selection Committee *Research Talent, Social Sciences* (NWO, Dutch Research Council)

2015 Chair Examining Board ILO [Teacher Training Programmes] (University of Amsterdam)

2014-2015 Member Board ILO [Teacher Training Programmes] (University of Amsterdam)

2013-2014 Director Research Master Programme in Social and Behavioral Sciences (Tilburg University)

2010-2014 Program leader Department of Methodology and Statistics (Tilburg University)

2010-2014 Board member Department of Methodology and Statistics (Tilburg University)

2010-2014 Board member Interuniversity School for Psychometrics and Sociometrics (IOPS)

2014 Member Pre-selection Committee *VENI, Social Sciences* (NWO, Dutch Research Council)

2013 Quartermaster Research-Master program in Psychology (Tilburg University)

2011 Member Pre-selection Committee *Research Talent, Social Sciences* (NWO, Dutch Research Council)

2009-2013 Board Member (Netherlands Statistical Society)

2009-2013 Chair Social Sciences Division (Netherlands Statistical Society)

2011-2012 Coordinator Research Master Programme Social and Behavioral Sciences (Tilburg University)

2009-2011 Member Examining Board Faculty of Social Sciences (Tilburg University)

2007-2011 Coordinator Methodology and Statistics Track of the Master's Degree Programme in Research in Social and Behavioral Sciences (Tilburg University)

2005-2011 Chair Committee for the Master's degree program in Research in Social and Behavioral Sciences (Tilburg University)

2004-2009 Secretary/treasurer Social Sciences Division (Netherlands Statistical Society)

2009, 2010 Member Pre-selection Committee *Competition, Social Sciences* (NWO, Dutch Research Council)

2006-2008 Member Advisory Committee on Mathematics Education in secondary education (Commissie Toekomst Wiskundeonderwijs CTWO).

Membership PhD Committees

2025 Hannelies de Jonge (University of Amsterdam)

2024 Emilie Michaux (KU Leuven)

2023 Pablo Nájera (Universidad Autónoma de Madrid), Debby ten Hove, Sharon Klinkenberg, Karin van Nes (University of Amsterdam)

2022 Edwin Cuellar Caicedo, Laura Kolbe, Letty Koopman (University of Amsterdam), Theo Bakker (Vrije Universiteit)

2021 Maien Sachisthal (University of Amsterdam), Fadi Hannah, Marloes van Verseveld (University of Amsterdam, chair)

2020 Lieke Voncken, Daniela Crisan (Groningen University)

2019 Eva Zijlmans, Laura Boesschoten (Tilburg University), Peter Tamboer (University of Amsterdam), Stephanie Berger (Twente University), Mariëlle Zondervan-Zwijnenburg (Utrecht University)

2018 Davide Vidotto, Greet Kuipers (Tilburg University), Annemiek Punter (Twente University)

2017 Hannah Oosterhuis (Tilburg University)

2016 Pieter Oosterwijk (Tilburg University)

2015 Robert Zwitser (University of Amsterdam), Renske Kuijpers (Tilburg University)

2014 Iris Smits (Groningen University)

2013 Jesper Tijmstra (Utrecht University), Daniël van der Palm (Tilburg University)

2012 Peter Kruyen, Hendrik Straat (Tilburg University)

2010 Rudy Ligtvoet (Tilburg University)

2009 Wobbe Zijlstra (Tilburg University)

2007 Joost van Ginkel (Tilburg University)

2004 Sandra van Abswoude (Tilburg University)

2003 Dave Hessen (University of Amsterdam)

External Assessor for promotions

Dr. Iosonas Lamprianou (2019; University of Cyprus)

Dr. Chia Yi Chiu (2015; Rutgers, The State University of New Jersey)

Editorial

2024 - present Member of Editorial Board of *Educational Methods & Practice* (EMP)

2019 - present Member of Methodology of Educational Measurement and Assessment (Springer Book Series)

2024-2025 Guest editor of special issue of British Journal of Mathematical and Statistical Psychology on new advances in reliability.

2021-2022 Coeditor of the volume 'Essays on contemporary Psychometrics'

2020 Guest editor of special issue of Quality of Life Research on nonparametric item response theory

2012-2017 Editor of *Quantitative Psychology Research* (Proceedings of the Psychometric Society, published by Springer)

2015-2016 Member of the Editorial Board of *International Journal of Testing*

2013-2016 Associated editor of *Journal of Educational Measurement*

2010 Guest editor of special issue of *Methodology* on missing data analysis

2005 Coeditor of the volume *New developments on the analysis of categorical data for the social and behavioral sciences*, published by Erlbaum.

Ad hoc reviewer for

2011 Applied Statistics

2012 Advances in Data Analysis and Classification

2006 Austrian Science Fund (FWF)

2002-2010, 2012, 2014, 2019 Applied Psychological Measurement

2016, 2017, 2021 Behavioral Research Methods

2010, 2012, 2015-2017, 2019 British Journal of Mathematical and Statistical Psychology

2010 BMC Health Services Research

2021 Communications in Statistics - Theory and Methods

2009 Computational Statistics and Data Analysis

2012 COMPSTAT

2011 Cultural Diversity and Ethnic Minority Psychology

2014 Current Issues in Tourism

2016 Educational Measurement: Issues and Practices

2006, 2011, 2014, 2015 Educational and Psychological Measurement

2010, 2011 Educational Research & Evaluation

2018 Fonds Wetenschappelijk Onderzoek - Vlaanderen (FWO)

2014 Group processes and Intergroup Relations

2014 HIV and Aids Review

2009, 2011, 2012, 2015 International Journal of Testing

2004, 2010, 2013, 2016 Interuniversitaire onderzoeksschool voor psychometrie en sociometrie (IOPS)

2008, 2017 Journal of Applied Statistics

2008 Journal of Classification

2014 Journal of Computational and Applied Mathematics

2014 Journal of Computer Adaptive Testing

2011, 2014-2015, 2018 Journal of Educational and Behavioral Statistics

2007-2017 Journal of Educational Measurement

2024 Journal of Experimental Education

2012 Journal of Psychosomatic Research

2006-2007, 2015-2016 Journal of Statistical Software

2006, 2010, 2017 Methodology

2023 Multivariate Behavioral Research

2008 National Science Foundation (NSF)

2008 National Research Council (NWO)

2008, 2009 Nederlandse organisatie voor gezondheidsonderzoek en zorginnovatie (ZonNW)

2017 Nursing Research

2012 Pakistan Journal of Statistics

2014 Perceptual and Motor Skills

2021 Peter Lang Publishers

2014 Plos One

2003, 2007 Poetics

2013 Psychiatry Research

2011, 2017 Psychological Methods

2001-2016, 2018-2019, 2021-2024 Psychometrika

2012 Psychological Report

2017 Psychological Test and Assessment Modelling

2021, 2023 Quality and Quantity

2000, 2013, 2017, 2020, 2021 Quality of Life Research

2023 Revista Latinoamericana de Psicología

2009 Social Science Research

2014 Sociological Methodology

2008, 2020, 2024 Springer Publisher

2004, 2009 Statistica Neerlandica

2005 Structural Equation Modeling

2016 Taylor and Francis Publishers.

2017 The R Journal

and several edited volumes.

Organization of conferences and symposia

2016-2022 Organizer of the monthly Lab Meetings on Methods and Statistics, Research Institute of Child Development and Education, University of Amsterdam

2018 EMA/SMABS Conference, Jena, Germany; symposium "New Developments in Mokken scale analysis" (organizer).

2014-2016 Organizer of biweekly lab sessions on Psychometrics, University of Amsterdam

2016 IMPS Conference, Asheville, NE; symposium "Consulting" (Organizer with K. Strobl).

1999-2002; 2010-2013 Organizer of monthly lunch colloquia in Methodology and Statistics, Tilburg University

2014 IOPS Summer Conference 2014, Tilburg (organizer)

2013 IFCS13 Conference, Tilburg (chair of the local organizing committee)

2012 IMPS Conference, Lincoln, NE; session "Nonparametric item response theory" (organizer with K. Sijtsma).

2011 ASA Conference, Tilburg; session "Categorical Marginal Models" (Organizer with W. P. Bergsma).

2011 IMPS Conference, Hong Kong; session "Categorical Marginal Models" (Organizer with W. P. Bergsma).

2011 ASA Conference, Tilburg (Member of the local organizing committee)

2009 Meeting of the SWS-VVS on "Test construction", Utrecht; (Organizer with I. Klugkist).

2007 Meeting of the SWS-VVS on "Missing Data", Tilburg; (Organizer with J. K. Vermunt).

2006 IMPS Conference, Montreal; session "Data problems in test and questionnaires" (Organizer with K. Sijtsma).

2007 Meeting of the SWS-VVS on "Outliers", Tilburg; (Organizer with J. Pannekoek).

2004 RC33 Interim Conference, Amsterdam; session "Recent Developments in Nonparametric item response theory" (Organizer with K. Sijtsma).

2005 IMPS Conference, Tilburg (Coordinator of the local organizing committee)

2003 IMPS Conference, Sardinia; session "New developments in nonparametric item response theory" (Organizer with K. Sijtsma).

2002 SMABS Conference, Tilburg (Member of the local organizing committee)

2000 Compstat 2000 Conference, Utrecht; session "Computer intensive statistics in modern item response theory"(Organizer with K. Sijtsma)

Membership

2016-present Interuniversitair Centrum voor Onderwijswetenschappen (ICO) [Interuniversity Center for Educational Sciences]

2015-present Vereniging ter Bevordering van de Studie der Pedagogiek (VBSP) [Society for the Advancement of the Study of Pedagogy]

2003-present Vereniging voor Ordinatie en Classificatie (VOC) [Dutch/Flemish Classification Society]

1999-present Interuniversitaire Onderzoeksschool voor Psychometrie en Sociomentrie (IOPS) [Interuniversity Graduate School of Psychometrics and Sociometrics]

1998-present Psychometric Society

1996-present Vereniging voor Statistiek en Operations Research (VVS-OR) [Netherlands Statistical Society]

2013-2018 National Council of Measurement in Education (NCME)

Research

Advisor of PhD Projects

2023-2027 Goan Booij: *Joint Relations of Digital Literacy, Time Use and Academic Performance in Primary and Secondary Education* with B. Jansen, M. H., Nguyen, & B. Schreurs (Financed by RPA Youth Digitality).

2023-2029 Tasos Psychogyiopoulos: *FlexCAT - Generalized Computerized Adaptive Testing for Flexible Measurement and Prediction Using the Unrestricted Latent Class Model* with N. Smits (External PhD student).

2021-2025 Kristin Stoeffler: *Measuring Twenty-First Century Skills* with T. van Schijndel and A. von Davier (External PhD student).

2021-2024 Jiajun Mo: *Social Trust, Interpersonal Relationships, and Behaviour Problems during School Transitions: Longitudinal Research in the Netherlands and China* with B. Orobio de Castro and D. Roorda (Financed by China Scholarship Council).

2018-2022 Debby ten Hove: *A comprehensive framework for understanding and interpreting measures of inter-rater reliability* with T. D. Jorgensen.

2015-2022 Ralph Rusconi: *Measuring effects of an intervention in an urban setting on school and class quality* with M. L. L. Volman.

2016-2022 Letty Koopman: *Scaling methods for multilevel test data* with B. J. H. Zijlstra (Financed by NWO Research Talent; (PhD received on November 3, 2022).

2014-2018 Eva Zijlmans: *Solutions for some psychometric problems of reliability of psychological measurement* with K. Sijtsma and J. Tijmstra (PhD received on February 15, 2019).

2013-2016 Greet Kuipers: *Attachment and mentalization in anorexia nervosa and bulimia nervosa* with M. H. J. Bekker. (PhD received on May 30, 2018)

2012-2016 Hannah Oosterhuis: *Improving norms for psychological and educational tests* with K. Sijtsma. (Financed by NWO Research Talent; PhD received on April 12, 2017, cum laude)

2011-2015 Pieter Oosterwijk: *Statistical Properties and Practical Use of Classical Test-Score Reliability Methods* with K. Sijtsma (PhD received on July 1, 2016).

2010-2014 Renske Kuijpers: *Test construction using marginal models* with M. A. Croon and K. Sijtsma (financed by NWO; PhD received on January 16, 2015).

2009-2013 Daniël van der Palm: *Multiple imputation using mixture models* with J. K. Vermunt and K. Sijtsma (financed by NWO; PhD received on December 6, 2013).

2008-2012 Hendrik Straat: *Higher measurement quality of tests and questionnaires by means of more powerful statistics* with K. Sijtsma (PhD received on November 23, 2012).

2006-2010 Rudy Ligtvoet: *Models and Methods for Invariant Item Ordering* with K. Sijtsma and J. K. Vermunt (PhD received on April 16, 2010).

2005-2009 Wobbe Zijlstra: *Detection of outliers in test, questionnaire, and survey data* with K. Sijtsma (financed by NWO, PhD received on December 4, 2009)

2003-2007 Joost van Ginkel: *Missing Data Analysis in Questionnaire Data* with K. Sijtsma and J. K. Vermunt. (PhD received on June 8, 2007).

2003-2005 Janneke te Marvelde: *Models and Methods for Invariant Item Ordering* with K. Sijtsma and J. K. Vermunt.

Books

1. Koomen, H. M. Y., Zee, M., Van der Ark, L. A., & Roorda, D.L. (2023). *SPARTS: Relatievragenlijst leerling. Handleiding* [SPARTS: Relationship questionnaire student. Professional Manual]. Research Institute of Child Development and Education, University of Amsterdam. https://doi.org/10.5281/zenodo.7615541.
2. Van der Ark, L. A., Emons, W. H. M., & Meijer, R. R. (Eds.). (2023). *Essays on contemporary psychometrics*. Springer. https://doi.org/10.1007/978-3-031-10370-4.
3. Sijtsma, K. & Van der Ark, L. A. (2021), *Measurement models for psychological attributes.* Chapman & Hall/CRC Press. (link)
4. Van der Ark, L. A., Wiberg, M. Culpepper, S. A., Douglas J. A., & Wang, W.-C. (Eds.) (2017), *Quantitative psychology: The 81st Annual Meeting of the Psychometric Society, Asheville, North Carolina, 2016.* Springer. (link)
5. Van der Ark, L. A. (2016), *Psychometrie: Onderzocht, aangeleerd en toegepast.* [Psychometrics: Investigated, Taught, and Applied] Amsterdam University Press. (pdf)
6. Van der Ark, L. A., Bolt, D. M., Douglas J. A., Wang, W.-C., & Wiberg, M. (Eds.) (2016), *Quantitative psychology research: The 80th Annual Meeting of the Psychometric Society, Beijing, China, 2015.* Springer. (link)
7. Van der Ark, L. A., Bolt, D. M., Wang, W.-C., Douglas J. A., & Chow, S.-M. (Eds.) (2015), *Quantitative psychology research: The 79th Annual Meeting of the Psychometric Society, Madison, Wisconsin, 2014.* Springer. (link)
8. Millsap, R. E., Bolt, D. M., Van der Ark, L. A., & Wang, W.-C. (Eds.) (2015), *Quantitative psychology research: The 78th Annual Meeting of the Psychometric Society.* Springer. (link)
9. Millsap, R. E., Van der Ark, L. A., Bolt, D. M., & Woods C. M. (Eds.) (2014), *New developments in quantitative psychology: Presentations from the 77th Annual Psychometric Society Meeting.* Springer. (link)
10. Van der Ark, L. A., Croon, M. A. & Sijtsma, K. (Eds.) (2005), *New developments in categorical data analysis for the social and behavioral sciences.* Erlbaum (link).
11. Van der Ark, L. A. (1999). *Contributions to latent budget analysis; A tool for the analysis of compositional data.* DSWO-press.

Refereed Papers

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Software

1. Van der Ark, L. A. & Koopman, L. (2023). `mokken`: An R package for Mokken scale analysis (Version 3.1.0) [computer software and manual]. http://cran.r-project.org/web/packages/mokken/index.html

2. Bergsma, W. P., & Van der Ark, L. A. (2023). `cmm`: Categorical marginal models. (Version 1.0) [computer software and manual]. http://cran.r-project.org/web/packages/cmm/index.html

Selected Non-Refereed Papers and Research Reports

1. Rusconi, R. Volman, M. L. L., & Van der Ark, L. A. (2023). The effect of student background and school composition on the static scores and gain scores of cognitive and non-cognitive proficiency tests in Dutch primary schools. Unpublished report. SSRN. http://dx.doi.org/10.2139/ssrn.4316516

2. Mulder E., & Van der Ark, L. A. (2020). Pedagogiek is een bastaard [Pedagogy is a bastard]. In W. de Jong, J. Bekker, H. de Deckere, J. Metselaar, I. Schonwille, & L. van der Poel (Eds.) *Pedagoog durf te spelen* (pp. 25 -28). SWP. (link)

3. Snoek, M., Kösters, J., Blankenstein, F., Bisschop., P., Van der Ven, K., Heyma, A., Meijer, J., Van der Ark, L. A., & Schenke, S. (2020) *Intake en zelfselectie voor de lerarenopleidingen: Voorspellende waarde, effecten en onderliggende mechanismen van intakeprocedures in de lerarenopleidingen.* [Intake and self-selection in teacher-training programs: Predictive value, effects, and underlying mechanisms of intake procedures in teacher training programs] Kohnstamm Instituut. (Report 1042, project number 20715). (link)

4. Van der Ark, L. A., Korf, W., Peters, P., Chen, M., Ten Hove, D., & Koopman, L. (2019). Onderzoek naar de verbetering van tests en vragenlijsten voor de pedagogische praktijk [Research into the Improvement of Tests and Questionnaires]. In W. de Jong, J. Bekker H. de Deckere, I. Schonewille, & L. van der Poel (Eds.), *De belofte van de jeugd?! Pedagogiek in de 21e eeuw.* (pp. 81-92). SWP. (link)

5. Van der Ark, L. A., Van Leeuwen, J. L., & Jorgensen, T. D. (2018). Interbeoordelaarsbetrouwbaarheid LIJ; Onderzoek naar de interbeoordelaarsbetrouwbaarheidheid van het Landelijk Instrument Jeugdstrafrechtketen [Inter-rater reliability of the LIJ; A study to the inter-rater reliability of the National Instrument of the Juvenile Criminal Justice System]. (Report No. 2829). WODC. https://repository.wodc.nl/handle/20.500.12832/2267

6. Van der Ark, L. A. (2016). Kwantitatieve onderzoeksmethodologie ter bevordering van de academisering van het onderwijs [Quantitative research methods for the advancement of academic education]. In L. Houweling, H. Viëtor, H. de Deckere, & W. de Jong (Eds.), *De staat van de pedagogiek: Analytisch, opbrengstgericht en visionair* (pp. 37-50). SWP. (link)

7. Van der Ark, L. A. (2010). *Getting started with Mokken scale analysis in R.* R vignette. (link)

8. De Vries, A. L. M., & Van der Ark, L. A. (2008). Scoring methods for ordinal multiple forced-choice items. In J. Daunis i Estadella & J. A. Martín-Fernández (Eds.), *Compositional data analysis workshop: CODAWORK'08.* Universitat de Girona. (link)

9. Van der Ark, L. A. (2005). Regression analysis of compositional data when both the dependent variable and independent variable are components. In G. Mateu-Figueras & C. Barceló-Vidal (Eds.), *CoDaWork'05; Proceedings of the Second Compositional Data Analysis Workshop.* (link)

10. Van der Ark, L. A. (2000). Person ordering in parametric polytomous IRT models: A simulation study. In W. Jansen & J. G. Bethlehem (Eds.), *Proceedings in computational statistics 2000, short communications and posters* (pp. 113–114). Statistics Netherlands / IASC.

11. Van der Ark, L. A. (2000). On stochastic ordering in polytomous IRT models; A simulation study [CD-ROM]. In J. Blasius, J. J. Hox, E. de Leeuw, & P. Schmidt (Eds.), *Social science methodology in the new millennium, Proceedings of the Fifth International Conference on Logic and Methodology.* Amsterdam: TT-publikaties.

12. Van der Ark, L. A. (1999). An overview of the relationships between IRT models for polytomous items and some relevant properties (abstract). *Methods of Psychological Research, 4*, 70.

13. Van der Heijden, P. G. M., Gilula, Z., & Van der Ark, L. A. (1999). On some relations between correspondence analysis and latent class analysis. *Bulletin of the International Statistical Institute, ISI 99, 52nd Session, Contributed papers, Tome LVIII, Book 3* (pp. 393–394). Helsinki, Finland: Edita.

14. Van der Ark, L. A., Marburger, D., Mellenbergh, G. J., Vorst H. C. M., & Wald, F. (1995). *De Aangepaste Profile of Mood States (Aangepaste POMS), handleiding en verantwoording.* [The Modified Profile of Mood States (Modified POMS), manual and research report] Nijmegen, The Netherlands: Berkhout Nijmegen B.V.

Presentations

1. Van der Ark, L. A. (2023, October) Standard errors, confidence intervals, and null-hypothesis significance testing of educational statistics Invited presentation at Programme Group of Methods and Statistics, Research Institute of Child Development and Education, University of Amsterdam. Amsterdam, The Netherlands

2. Van der Ark, L. A., Psychogyiopoulos, A. & Smits, N. (2023, July) A new perspective on norming psychological tests. Paper presented at conference of the European Association of Methodology Conference (EAM). Ghent, Belgium.

3. Van der Ark, L. A. (2023, June) Standard errors, confidence intervals, and null-hypothesis significance testing of educational statistics Invited presentation at the Center for Education and Measurement in Oslo (CEMO). Oslo, Norway.

4. Van der Ark, L. A., & Smits, N. (2022, September) Flexible computer adaptive testing Paper presented at the International Association of Computer Adaptive testing (IACAT). Frankfurt am Main, Germany.

5. Van der Ark, L. A., Psychogyiopoulos, A. & Smits, N. (2022, July) A new perspective on norming psychological tests. Paper presented at the International Meeting of the Psychometric Society (IMPS). Bologna, Italy.

6. Van der Ark, L. A., Psychogyiopoulos, A. & Smits, N. (2022, July) A new perspective on norming psychological tests. Paper presented at the M&S symposium 2022. Amsterdam, The Netherlands.

7. Van der Ark, L. A., & Smits, N. (2022, May) Flexible computer adaptive testing Invited paper presented at the symposium of the valedictory address of Klaas Sijtsma at Tilburg University. Tilburg, The Netherlands.

8. Van der Ark, L. A., Koomen, H. M. Y., Roorda, D. L. & Zee, M. (2021, May) Norming the Student Perception of Affective Relationship with Teacher Scale(SPARTS) Invited paper presented at the symposium "Methodological Advances in Psychological Test Norming" at the European Association of Psychological Assessment (EAPA) Digital Event (2021, May).

9. Van der Ark, L. A. (2021, March) Toelatingsbeleid van premasteropleidingen: Kwaliteit van de instroom en kwaliteit van de uitstroom. [Admission policy of pre-master programs: Quality of the inflow and quality of the outflow.] Workshop presented at VSNU's Zesde editie van learning community toelating en selectie' (online).

10. Van der Ark, L. A., Koopman, L. & Zijlstra B. J. H. (2020, July). New advances in Mokken scale analysis, Invited paper presented at the First Online Meeting of the Psychometric Society.

11. Van der Ark, L. A. & Mulder E. (2019, October). De genealogie van de Nederlandse pedagogiek [the genealogy of the Dutch pedagogics], Invited paper presented at the biannual conference of the VBSP, Garderen, The Netherlands.

12. Van der Ark, L. A. (2019, February). Do we agree? Invited paper presented at the Department of Education, University of Hong Kong, Hong Kong, China.

13. Van der Ark, L. A. (2018, July). Two-level level Mokken scale analysis: The state of the Art. Paper presented at the symposium 'New Developments in Mokken Scale Analysis', 8th European Congress of Methodology, Jena, Germany.

14. Van der Ark, L. A., Korf, W. Peters, P., Chen, M., Ten Hove, D., & Koopman, L. (2017, October). De belofte van de onderzoekende jeugd [the promise of the researching youth]. Invited paper presented at the biannual conference of the VBSP, Garderen, The Netherlands.

15. Van der Ark, L. A. (2017, July). Sample-size planning in inter-rater reliability studies. Paper presented 82th Annual Meeting of the Psychometric Society, Zurich, Switzerland.

16. Van der Ark, L. A. (2016, July). Standard errors in scalability coefficients in two-level Mokken scale analysis Paper presented 81th Annual Meeting of the Psychometric Society, Asheville, NC.

17. Van der Ark, L. A. (2016, January). *Psychometrie: Onderzocht, aangeleerd en toegepast.* Inaugural lecture. University of Amsterdam, Amsterdam, The Netherlands.

18. Van der Ark, L. A. (2015, July). *Multilevel Mokken scale analysis.* Paper presented 80th Annual Meeting of the Psychometric Society, Beijing, China.

19. Van der Ark, L. A. (2015, February). *Divisive latent class models in R.* Paper presented on February 12, 2015, at the workshop Psychometric Computing 2015, Amsterdam, The Netherlands.

20. Van der Ark, L. A. (2015, February). On divisive latent class models. Invited paper presented on February 5, 2015, at Rutgers, The State University of New Jersey, New Brunswick, NJ.

21. Van der Ark, L. A. (2014, September). *Meaningful measurement by means of multiple items.* Invited paper presented at the AmsteRdam Meetup, Amsterdam, The Netherlands

22. Van der Ark, L. A. (2014, July). *Accuracy, Bias, and Precision in Classical Test Theory.* Paper presented 79th Annual Meeting of the Psychometric Society, Madison, WI.

23. Van der Ark, L. A. (2014, June). *Handling complex dependencies.* Paper presented at "The M&S Research Meeting", University of Amsterdam, The Netherlands.

24. Van der Ark, L. A. (2014, March). *Handling complex dependencies.* Paper presented at "The MTO Research Sandwich", Tilburg University, The Netherlands.

25. Van der Ark, L. A. (2014, February) *cmm: Categorical marginal models* Paper presented at the workshop Psychometric Computing 2014, Tübbingen, Germany.

26. Van der Ark, L. A. (2013, July) *Using the Sum of Item Scores to Order Respondents on the Latent Trait.* Invited paper presented at presented 78th Annual Meeting Meeting of the Psychometric Society, Arnhem, The Netherlands.

27. Van der Ark, L. A. (2013, February) *Automated lab sessions.* Paper presented at Tilburg University, The Netherlands.

28. Van der Ark, L. A. (2012, September) *Ipsative measurement and the analysis of organizational values.* Paper presented at the MTO Colloquium Tilburg, The Netherlands.

29. Van der Ark, L. A. (2012, July) *Visualizing results from nonparametric IRT.* Paper presented 77th Annual Meeting of the Psychometric Society, Lincoln, NE.

30. Van der Ark, L. A. (2011, July) *Categorical marginal models for large data sets.* Paper presented 76th Annual Meeting of the Psychometric Society, Hong Kong.

31. Van der Ark, L. A. (2011, May) *Categorical marginal models for large data sets.* Paper presented at Spring Research Conference of the American Sociological Association, Tilburg, The Netherlands.

32. Van der Ark, L. A. (2011, February) *Mokken scale analysis in R.* Paper presented at the workshop Psychometric Computing 2011, Tübbingen, Germany.

33. Van der Ark, L. A. (2010, June) *Het gebruik van stemkastjes bij de cursus testtheorie en testdiagnostiek* [The use of e-voting in the course Test Theory and Psychodiagnostics]. Paper presented at the symposium "Actief Leren", Tilburg, The Netherlands.

34. Van der Ark, L. A., Croon, M. A., & Bergsma, W. P. (2010, July). *Two estimation methods for categorical marginal models.* Paper presented at the conference EAM-SMABS 2010, Potsdam, Germany.

35. Van der Ark, L. A. (2009, October). *A note on stochastic ordering of the latent trait using the sum of polytomous item scores.* Paper presented at the 25th Workshop on Item Response Theory, Enschede, The Netherlands.

36. Van der Ark, L. A. (2009, July). *Recent developments Mokken scale analysis.* Invited paper presented at the 74th Annual Meeting of the Psychometric Society, Cambridge, UK.

37. Van der Ark, L. A. (2009, May). *Schaal- en indexconstructie en item respons theorie* (Scale and index construction and item response theory). Invited paper presented at the workshop "Eén dimensie of één theorie" organized by The Netherlands Institute for Social Research SCP and Statistics Netherlands, The Hague.

38. Van der Ark, L. A. & Van der Palm, D. W. (2009, April). *A new reliability coefficient based on latent class analysis.* Invited paper presented at the VOC voorjaarsbijeenkomst 2009 of the Dutch/Flemish Classification Society, Tilburg, The Netherlands.

39. Van der Ark, L. A. (2009, January). *Veranderingen in wiskunde op het VWO en aansluiting bij een universitaire opleiding Psychologie.* Paper presented at the symposium "Statistiekonderwijs voor psychologie-studenten", Maastricht University, The Netherlands.

40. Van der Ark, L. A. & Van der Palm, D. W. (2009, January). *A new reliability coefficient based on latent class analysis.* Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

41. Van der Ark, L. A. & Straat, J. H. (2008, August). *Item selection in Mokken scale analysis.* Invited paper presented at the German Classification Society, Hamburg Germany.

42. Van der Ark, L. A. & Van der Palm, D. W. (2008, July). *A new reliability coefficient based on latent class analysis.* Paper presented at the 73th Annual Meeting of the Psychometric Society, Durham, NH.

43. Van der Ark, L. A. (2007, September). *Mokken scale analysis for dichotomous items using marginal models.* Paper presented at the 23th Workshop on Item Response Theory, Enschede, The Netherlands.

44. Van der Ark, L. A. (2007, July). *Mokken scale analysis for dichotomous items using marginal models.* Paper presented at the 72th Annual Meeting of the Psychometric Society, Tokyo, Japan.

45. Van der Ark, L. A. (2006, November). *Identifying Answer Copying in the Examination of Test Theory and Psychodiagnostics.* Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

46. Van der Ark, L. A. (2006, June). *Identifying answer copying using alternate test forms and seat locations in small scale examinations.* Paper presented at the 71th Annual Meeting of the Psychometric Society, Montreal, Canada.

47. Van der Ark, L. A. & Zijlstra, W. P. (2005, December). *Outlier detection in test and questionnaire data.* Paper presented at the Najaarsbijeenkomst van de Sociaal Wetenschappelijke Sectie van de Vereniging Voor Statistiek, Tilburg, The Netherlands.

48. Van der Ark, L. A. (2005, October). *Regression analysis of compositional data when both the dependent variable and independent variable are components.* Paper presented at the Second Compositional Data Analysis Workshop CoDaWork'05, Girona, Spain.

49. Van der Ark, L. A. (2004, October). *Attractiveness of cultural activities in European cities: A latent class approach.* Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

50. Van der Ark (2004, June). *Outlier detection in test and questionnaire data.* Paper presented at the 69th Annual Meeting of the Psychometric Society, Pacific Grove CA, USA.

51. Van der Ark, L. A. (2003, November). *Nonparametric item response theory.* Invited paper presented at the VOC najaarsbijeenkomst 2003 of the Dutch/Flemish Classification Society, Leiden, The Netherlands.

52. Van der Ark, L. A. (2003, October). *Estimating IRT models using LEM.* Paper presented at the 19th Workshop on Item Response Theory, Enschede, The Netherlands.

53. Van der Ark, L. A., & Sijtsma, K. (2003, July). *The effect of missing data imputation on Mokken scale analysis.* Paper presented at the International Meeting of the Psychometric Society, Chia, Sardinia, Italy.

54. Van der Ark, L. A., & W. P. Bergsma (2002, October). *Item orderings in test data.* Paper presented at the 18th Workshop on Item Response Theory, Enschede, The Netherlands.

55. Van der Ark, L. A., & W. P. Bergsma (2002, September). *Item orderings in test data.* Paper presented at Methodology and Statistics International Conference, Ljubljana, Slovenia

56. Van der Ark, L. A. (2002, July). *Investigating invariant item orderings in test data.* Paper presented at the 23rd Meeting of the Society for the Multivariate Analysis in the Behavioral Sciences (SMABS), Tilburg, The Netherlands.

57. Van der Ark, L. A. (2001, November). *Investigating the ordering of polytomous items.* Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

58. Van der Ark, L. A. (2001, October). *Simulation under nonparametric IRT.* Paper presented at the 17th Workshop on Item Response Theory, Enschede, The Netherlands.

59. Van der Ark, L. A. (2001, July). *Investigation of invariant item ordering.* Paper presented at the International Meeting of the Psychometric Society, Osaka, Japan.

60. Van der Ark, L. A. (2000, October). *On stochastic ordering in polytomous IRT models.* Paper presented at the Fifth International Conference on Logic and Methodology, Cologne, Germany.

61. Van der Ark, L. A. (2000, August). *Person ordering in parametric polytomous IRT models: A simulation study.* Paper presented at COMPSTAT 2000, Utrecht, The Netherlands.

62. Van der Ark, L. A. (2000, July). *On stochastic ordering in polytomous IRT models.* Paper presented at the Annual Meeting of Psychometric Society, Vancouver, BC, Canada.

63. Van der Ark, L. A. (2000, April). *Stochastische ordening bij vragenlijsten met polytome items* [Stochastic ordering for questionnaires with polytomous items]. Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

64. Van der Ark, L. A. (1999, December). *Contributions to latent budget analysis; A tool for the analysis of compositional data.* Invited paper presented at the Ninth IOPS Conference, Leiden, The Netherlands.

65. Van der Ark, L. A. (1999, October). *An overview of the relationships between IRT models for polytomous items and some relevant properties.* Paper presented at the 15th Workshop on Item Response Theory, Enschede, The Netherlands.

66. Van der Ark, L. A. (1999, July). *An overview of the relationships between IRT models for polytomous items and some relevant properties.* Invited paper presented at the Eleventh European Meeting of the Psychometric Society, Lüneburg, Germany.

67. Van der Ark, L. A. (1999, June). *Contributions to latent budget analysis; A tool for the analysis of compositional data.* Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Utrecht University, The Netherlands.

68. Van der Ark, L. A. (1999, May). *Contributions to latent budget analysis; A tool for the analysis of compositional data*. Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Tilburg University, The Netherlands.

69. Van der Ark, L. A. (1998, August). *Time budget data analyzed with latent budget analysis* . Paper presented at the Central Archive for Social Research, Cologne, Germany.

70. Van der Ark, L. A. (1998, July). *New developments in latent budget analysis*. Invited paper presented at the Sixth Conference of the International Federation Classification Societies (IFCS-98), Rome.

71. Van der Ark, L. A. (1998, June). *Evaluatie van modelpassing in latente budget analyse* [Evaluation of model fit in latent budget analysis]. Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Utrecht University, The Netherlands.

72. Van der Ark, L. A. & Van der Heijden, P. M. G. (1997, September). *Geometry and identifiability in the endmember model*. Paper presented at the Third International Meeting of the International Association for Mathematical Geology (IAMG'97), Barcelona.

73. Van der Ark, L. A. & Van der Heijden, P. M. G. (1997, July). *Geometry and identifiability in the latent budget model*. Paper presented at the Tenth International Meeting of the Psychometric Society, Santiago de Compostela, Spain.

74. Van der Ark, L. A. & Van der Heijden, P. M. G. (1997, June). *Geometrie en identificeerbaarheid in het latente budgetten model* [Geometry and identifiability in the latent budget model]. Paper presented at the Fifth IOPS conference, Enschede, The Netherlands.

75. Van der Ark, L. A. (1997, March) *Analyse van compositionele data* [Analysis of compositional data]. Invited lecture presented at the Department of Psychological Methodology, University of Amsterdam.

76. Van der Ark, L. A., & Van der Heijden, P. M. G. (1996, July). *Geometry and identifiability in the latent budget model*. Paper presented at the Fourth Meeting of the International Sociological Association, Colchester, England.

77. Van der Ark, L. A. (1995, June). *Latente budget analyse* [Latent budget analysis]. Paper presented at a Lunch Colloquium of the Department of Methodology and Statistics, Utrecht University, The Netherlands.