

# CURRICULUM VITAE

January 2007

**Name, given name** Heiser, Willem Jan  
**Date & Place of Birth** January 19, 1949; Rotterdam, The Netherlands

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## Education

Nov. 1981 Ph.D. degree in the Social Sciences, Cum Laude, Leiden University.  
Dissertation title: "Unfolding Analysis of Proximity Data".  
Advisors: John P. van de Geer and Jan de Leeuw.  
1971–1975 Master's Degree Psychology, majoring in Psychometrics, Leiden University.  
1969–1971 Bachelor's Degree in Psychology, Leiden University.  
1968–1969 Propedeutic Examination in Psychology, Leiden University.  
1967–1968 Propedeutic Examination in Medicine, Leiden University.  
1960–1967 Gymnasium Erasmianum ( $\beta$ ), Rotterdam.

## Present and past affiliations

1997– Professor of Psychology, Statistical Methods and Data Theory, Leiden University.  
1989–1996 Professor of Data Theory, Leiden University.  
1986–1989 Associate Professor, Department of Data Theory, Leiden University.  
1978–1986 Assistant Professor, Department of Data Theory, Leiden University.  
1975–1978 Assistant Professor, Department of Psychometrics, Leiden University.  
1971–1975 Teaching Assistant, Department of Psychometrics, Leiden University.  
1970–1971 Teaching Assistant, Department of Social Psychology, Leiden University.

## Visiting Fellowships and Professorships

- 2004-2005 Fellow at NIAS (Netherlands Institute for Advanced Study in the Humanities and Social Sciences, Royal Netherlands Academy of Arts and Sciences).
- March 1995 Visiting Professor, Departamento de Estadística, Universidad de Granada, Spain
- July 1994 Visiting Professor, Departamento de Métodos e Técnicas de Investigación en Ciencias do Compartamento e da Educación, Universidade de Santiago de Compostela, Spain.
- January 1993 Visiting Professor, Department of Mathematical Statistics and Operations Research, University of Exeter, Exeter, United Kingdom.
- May/June 1990 Visiting Professor, Département d'Analyse des Données, Université de Haut Bretagne Rennes II, Rennes, France.
- 1982 Member of Technical Staff, Bell Telephone Laboratories, Murray Hill, New Jersey, U.S.A. (one year post-doc position).

## Professional Activities for Journals, Societies, and Organizations

- 2006– Editorial Board of Sage *Handbook of Quantitative Methods in Psychology*.
- 2006– Scientific director of IOPS (Interuniversity Research institute for Psychometrics and Sociometrics)
- 2005–2006 Member of *Social Sciences College of Reviewers* (MaGW, Social Science Research Council, division of NWO)
- 2004–2006 Member of Dissertation Award Committee of the Psychometric Society
- 2003– Editorial Board of *Measurement: Interdisciplinary Research and Perspectives*
- 2003–2004 President *Psychometric Society*
- 2002–2005 Board of Trustees of the Psychometric Society
- 2002– Editor-in-chief of *Journal of Classification*
- 2001– Board of Directors of CSNA (Classification Society of North America)
- 1995–1999 Editor-in-chief of *Psychometrika*
- 1993–1997 Secretary of the Board, ECAS (European Courses in Advanced Statistics)
- 1992–2001 Editorial Board of *Journal of Classification*
- 1990–1994 Council Member of the International Federation of Classification Societies
- 1990–1997 Member of the Board, IOPS (Interuniversity Research institute for Psychometrics and Sociometrics (Acting Chair 1992–1994)
- 1989– Trustee of the Foundation for the Advancement of Data Theory (Chair 1992–.)
- 1989–1994 Co-founder and First President, Vereniging voor Ordinatie en Classificatie [VOC, the Dutch Classification Society]
- 1988–1997 Member of *Psychometrics* Division of the NWO-Psychon Foundation (Chair: 1991–1997)
- 1988– Editorial Board of *Applied Psychological Measurement*
- 1987–2000 Editor M&T Series, *DSWO Press* (Chair of Editorial Board 1996–2000)

- 1984–1993 Book Review Editor of *Psychometrika*  
 1973–1978 Editor of *Gedrag, Tijdschrift voor Psychologie* [Behavior, Journal of Psychology]

### **Memberships of Professional Societies**

- 2005– Member of the American Statistical Association  
 1998– International Affiliate of the American Psychological Association  
 1997–2001 Member of the Society for Industrial and Applied Mathematics  
 1996– Member of the Classification Society of North America  
 1991– Elected Member of the International Statistical Institute  
 1989–2000 Member of the Institute of Mathematical Statistics  
 1989– Member of Vereniging voor Ordinatie en Classificatie [the Dutch Classification Society]  
 1988– Elected Fellow of the Royal Statistical Society  
 1983–1994 Member of Société Francophone de Classification [the French Classification Society]  
 1981–1989 Member of the SOMO division of the SSCW Foundation, Working group Preference Analysis  
 1976– Member of the Vereniging Voor Statistiek [the Dutch Statistical Society]  
 1974– Member of the Psychometric Society

### **Grants Awarded (selection)**

- Mathematical Proficiency in Primary Education: Cognitive Processes and Predictability (Ph.D. project co-sponsored by CITO, Arnhem, 2006-2010).  
 Funds acquired as Head of Psychology for an endowed chair in Personnel Psychology and Vocational Assessment (Dutch Institute for Vocational Counseling, 2003-2013).  
 Relational Data Theory for the Behavioral Sciences (post-doc position from Stimulation Grant Leiden University, part of larger project with principal investigator dr. J. Meulman, 1999-2002).  
 M&T Learning Lab for Problem Driven Teaching (Stimulation Grant Ministry of Education, 1998-2001).  
 Sequential Multivariate Analysis of Qualitative Variables Based on Transition Tables (Ph.D. position from NWO, part of larger project "Multiway Analysis of Multivariate Longitudinal Data", principal investigator dr. H.A.L. Kiers, 1996–2000).  
 Robust Estimation Methods for Nonlinear Multivariate Analysis (Ph.D. project awarded by NWO, Psychon Foundation, 1990–1994).  
 Three-way Dynamals (Ministry of Transport and Public Works, Directorate Road Safety Research and SWOV, 1988–1990).  
 Stability of nonlinear multivariate analysis of psychometric data by bootstrap methods (Ph.D. project awarded by NWO, 1988–1993).

Advanced Software Development for "CATEGORIES" module (in cooperation with dr. J.J. Meulman), distributed by SPSS Inc., Chicago, IL.

### **Organization of Scientific Meetings**

Member of the International Scientific Committee, 8th Sensometrics Meeting: "Imagine the Senses", 2-4 August 2006, Ås, Norway.

Co-organizer and co-chair of Invited Sessions "New Diagnostics for Optimal Scaling Techniques" and "New Developments in Multidimensional Scaling and Unfolding", IMPS'2005, the 70<sup>th</sup> Annual Meeting of the Psychometric Society. Tilburg, The Netherlands, July 5-8, 2005.

Organizer and Chair of Invited Session "Best of Journal of Classification", Joint Meeting of the Interface Foundation and the Classification Society of North-America. St. Louis, Missouri, USA, June 8-12, 2005.

Member of the Scientific Program Committee, IFCS'2004, the 9<sup>th</sup> Meeting of the International Federation of Classification Societies. Chicago, Illinois, 15-18 July, 2004.

Member of Program and Organizing Committee of the 69<sup>th</sup> Annual Meeting of the Psychometric Society. Pacific Grove (Monterey), California, 14-17 June, 2004.

Program Chair and Co-organizer of the 68<sup>th</sup> Annual Meeting of the Psychometric Society. Chia Laguna (Cagliari), Italy, 7-10 July, 2003.

Chair of Session "Instability and Mixed Models", The 2002 Annual Meeting of the Classification Society of North America, Madison, Wisconsin, USA, 13-16 June, 2002.

Member of the International Scientific Program Committee, 32<sup>nd</sup> European Mathematical Psychology Group Meeting. Lisbon, Portugal, 26-29 September, 2001.

Member of the Scientific Organizing Committee and Organizer of Session "New Developments in Unfolding" of the International Meeting of the Psychometric Society. Osaka, Japan, 15-19 July, 2001

Member of the International Scientific Advisory Board and Organizer of Session "Unfolding", Social Science Methodology in the New Millenium, Fifth International Conference on Logic and Methodology (International Sociological Association). Cologne, Germany, 3-6 October, 2000.

Member of the Scientific Program Committee, IFCS'2000: Data Analysis, Classification and Related Methods, 7th Conference of the International Federation of Classification Societies. Namur, Belgium, 11-14 July, 2000.

Member of the International Scientific Program Committee, IFCS'98: Data Science, Classification and Related Methods, 6th Conference of the International Federation of Classification Societies. Rome, Italy, 21-24 July, 1998.

Organizer of Session "Fitting Trees and Discrete Structures", Third International Conference on Statistical Data Analysis based on the L1-Norm and Related Methods. Neuchâtel, Switzerland, 12-16 August 1997

Member of the Scientific Organizing Committee of the 10th European Meeting of the Psychometric Society. Santiago de Compostela, Spain, 15 - 18 July, 1997.

Convener of Session on "Multidimensional Scaling", Essex'96 Fourth International Social Science Methodology Conference. Colchester, United Kingdom, 1-5 July, 1996.

Member of the International Scientific Program Committee, IFCS'96: Data Science, Classification and Related Methods, 5th Conference of the International Federation of Classification Societies. Kobe, Japan, 27-30 March, 1996.

Member of the Scientific Programme Committee, ECAS 1995, the Fifth European Course in Advanced Statistics on "Longitudinal Data Analysis and Repeated Measures". Milton Keynes, United Kingdom, 11-15 September, 1995.

Chair of the Scientific Program Committee and Member of the Local Organizing Committee for the 9th European Meeting of the Psychometric Society. Leiden University, Leiden, The Netherlands, 4-7 July, 1995.

Chair of the Organizing Committee of the two-day Symposium "No Classification without Discrimination", on the occasion of the 5th Anniversary of the VOC (Dutch Classification Society). Hoeven, The Netherlands, 10-11 November, 1994.

Chair of the Local Organizing Committee and Member of the Scientific Committee, ECAS 1993, the Fourth European Course in Advanced Statistics on "The Analysis of Categorical Data". Leiden, The Netherlands, 20-24 September, 1993.

Member of the Scientific Organizing Committee and Session Co-organizer of the session "Distance Analysis and Multidimensional Scaling", IFCS'93, 4th Conference of the International Federation of Classification Societies. Paris, France, September, 1993.

Member of the Scientific Organizing Committee of the 8th European Meeting of the Psychometric Society. Barcelona, Spain, 26-28 July, 1993.

Member of the Scientific Organizing Committee of the 6th International Symposium on Applied Stochastic Models and Data Analysis. Chania, Crete, Greece, May, 1993.

Invited Session Organizer "Multidimensional Data Analysis", EMS'92, 20th European Meeting of Statisticians. Bath, United Kingdom, September, 1992.

Member of the Scientific Organizing Committee of DISTANCIA'92, International Meeting on Distance Analysis. Rennes, France, June, 1992.

Invited Session Organizer "Permutation methods in distance analysis" and "New Developments in Multidimensional Data Analysis", Third Conference of the International Federation of Classification Societies. Edinburgh, Schotland, August, 1991.

Member of the Scientific Program Committee for the 6th European Meeting of the Psychometric Society. University of Leuven, Leuven, Belgium, July, 1989.

Member of the Scientific Organizing Committee of MULTIWAY'88, International Meeting on the Analysis of Multiway Data Matrices. Università di Roma "La Sapienza", Roma, Italy, March, 1988.

Co-organizer of the Workshop "Path Analysis of Spatio-temporally Autocorrelated Data". Aachen, FR Germany, July, 1987.

Member of the Scientific Program Committee for the 5th European Meeting of the Psychometric Society. Twente University, Enschede, The Netherlands, June, 1987.

Co-organizer of the Workshop "Multidimensional Data Analysis". Pembroke College, Cambridge University, Cambridge, England, June, 1985.

Co-organizer of the "Table Ronde sur l'Analyse des Données". Laboratoire de Statistique, Université Paul Sabatier, Toulouse, France, January, 1984.

### **Lecturing in Statistics, Psychometrics and Multidimensional Data Analysis**

- ◆ *Statistical Consulting*. 1-Semester Graduate Course, Leiden, 2006 [with K. Verduin].
- ◆ *Optimization*. 1-Semester Graduate Course, Leiden, 2006 [with A. Mooijaart and M. de Rooij].
- ◆ *Multidimensional Scaling and Cluster Analysis*. 1-Semester Graduate Course, Leiden, 2002 [with L. Hubert and F. Busing], 2003 [with F. Busing, M. de Rooij, L. Frank, and E. Dusseldorp], 2004, 2005-2006 [with F. Busing].
- ◆ *Introduction to Research Methods and Statistics*. 3-Trimester Propaedeutic Course, Leiden, 1997-2004 [with others, main lecturer and supervision].
- ◆ *Cluster Analysis*, 1-Trimester Graduate Course, Leiden, 1999-2000 [with W.A. Van der Kloot].
- ◆ *Loglinear analysis*, 1-Trimester Graduate Course. Leiden, 1997, 1999-2003.
- ◆ *Applied Multivariate Analysis*. 2-Semester Graduate Course. Leiden, 1996-97, 1999-2000 [with J.J. Meulman and P.M. Kroonenberg], 2006-2007 [with others].
- ◆ *Multidimensional Scaling in Behavioral Science*, 2-Day Tutorial Session for Japan Marketing Association, Tokyo, Japan, April 1996 [with others].
- ◆ *Multidimensional Scaling and Cluster Analysis*, IOPS 4-Day Graduate Course, Leiden, May 1995 [principal lecturer].

- ◆ *Graphical Data Analysis: MDS*. 4-Day Graduate Course at Universidad de Granada, Spain, March 1995.
- ◆ *Optimal scaling techniques in SPSS Categories*, 1-Day Tutorial for Categories Users, SPSS Benelux, Gorinchem, March 1995.
- ◆ *Correspondence Analysis and Related Techniques*, 3-Day Postdoctoral Course for Deutsches Jugend Institut, München, Germany), October 1994 .
- ◆ *Preference Analysis*, 2-Week Graduate Course at Universidade de Santiago de Compostela, Spain, July 1994.
- ◆ *Homogeneity Analysis*, 1-Week Postdoctoral Course for ZA (Zentralarchiv für Empirische Sozialforschung, Köln, Germany), February 1994 [with J. Meulman].
- ◆ *Applied Multivariate Analysis*, 2-Semester Graduate Course, Leiden, 1994 [with J. Meulman and P.M. Kroonenberg].
- ◆ *The Analysis of Categorical Data*, ECAS 1993, the Fourth European Course in Advanced Statistics, Leiden, September, 1993 [co-lecturer].
- ◆ *Multidimensional Scaling and Clustering*, ISED 1-Semester Graduate Course, Leiden, 1993 [with J. Meulman].
- ◆ *Applied Multivariate Analysis*, COOP 1-Semester Graduate Course, Leiden, 1992 [with J. Meulman and P.M. Kroonenberg].
- ◆ *Nonlinear Multivariate Analysis*, IOPS 1-Week Graduate Course, Leiden, 1989 [principal lecturer].
- ◆ *Applied Multivariate Statistics, Part III*. Short (1-day) course, Department of Mathematical Applications, Ciba-Geigy, Basel, Switzerland, June 1988.
- ◆ *Applied Multivariate Statistics, Part II*. Short (1-day) course, Department of Mathematical Applications, Ciba-Geigy, Basel, Switzerland, February 1988 [with J.Meulman].
- ◆ *Algorithmic Aspects of Multidimensional Scaling*, Leiden, 1-Semester Graduate Course, 1987.
- ◆ *Applied Multidimensional Data Analysis*, 1-Semester Graduate Course, Leiden, 1983–1986 [co-lecturer].
- ◆ *Nonlinear Multivariate Analysis*, 1-Week Postdoctoral Course, Leiden, 1980 and 1981 [co-lecturer].
- ◆ *Multidimensional Scaling*, 1-Semester Graduate Course, Leiden, 1974–1979.
- ◆ *Classical Scaling Techniques*, 1-Semester Graduate Course, Leiden, 1975.
- ◆ *Research Methodology*, 2-Semester Introductory Course, Leiden, 1972–1975.
- ◆ *Quasi-experimental Design*, 1-Semester Graduate Course, Leiden, 1973.
- ◆ *Psychometric Testtheory*, 1-Semester Introductory Course, Leiden, 1972–1974.
- ◆ *Analysis of Variance*, 1-Semester Introductory Course, Leiden, 1971–1972.

### Supervising dissertations

- M. Hickendorff (Leiden), in preparation (with C. van Putten and N. Verhelst).
- K. de Jong (Leiden), in preparation (with P. Spinhoven).
- K. Verduin (Leiden), in preparation (with P.G. Hoftijzer).
- M. Polak (Leiden), *Item Analysis of Unipolar Item Response Data*; in preparation (with M. de Rooij).
- F.M.T.A Busing (Leiden), *Studies in Unfolding*; in preparation.
- M. Warrens (Leiden) *Ordering Properties of Homogeneity Analysis, when Applied to Data from IRT Models*; in preparation (with D.N.M. de Gruijter)
- L. Frank (Leiden), *Stability of Feature Network Models for Proximity Data*; defense planned for September 21, 2006.
- M.J. Koornstra (Leiden), *Changing Choices: Psychological Relativity Theory*; December 6, 2005 (with W.A. Wagenaar).

- E. Tunteler (Leiden), *Listen, Think and Apply: Changes in Spontaneous Analogical Reasoning in 4-8 Year-old Children*. October 7, 2004 (with W.C.M. Resing).
- A.J.W. Zielman (Leiden), *The Analysis of Skew-Symmetry in Proximity and Dominance Data*. April 18, 2002.
- V.M.J. de Gucht (Leiden), *Neuroticism, Alexithymia, Negative affect, and Positive affect as Predictors of Medically Unexplained Symptoms in Primary Care*. November 13, 2001 (with S. Maes).
- M. de Rooij (Leiden), *Distance models for transition frequency data*. April 5, 2001.
- G. Dijksterhuis (Leiden), *Multivariate Data Analysis in Sensory and Consumer Science*. May 9, 1995.
- A.J.M. Linmans (Nijmegen), *Onderschikking in de synoptische evangelieën: Syntaxis, discourse functies en stilometrie*. [Subordination in the synoptic gospels: Syntax, discourse-functions and stylometrics]. January 12, 1995 (with B.M.F. van Iersel and C.M.J. Sicking).
- M. Markus (Leiden), *Bootstrap Confidence Regions in Nonlinear Multivariate Analysis*. September 29, 1994 (with R.A. Visser).
- P. Verboon (Leiden), *A Robust Approach to Nonlinear Multivariate Analysis*. June 21, 1994.
- P.J.F. Groenen (Leiden), *The Majorization Approach to Multidimensional Scaling: Some Problems and Extensions*. November 24, 1993.
- A.F.M. Nierop (Leiden), *Multidimensional Analysis of Grouped Variables: an Integrated Approach*. March 18, 1993.
- I.A. Van der Lans (Leiden), *Nonlinear Multivariate Analysis for Multiattribute Preference Data*. November 11, 1992.
- G.M. Van den Berg (Leiden), *Choosing an Analysis Method: an Empirical Study of Statisticians' Ideas in View of the Design of Computerized Support*. January 23, 1992 (with R.A. Visser).
- R.J.W. Tijssen (Leiden), *Cartography of Science: Scientometric Mapping with Multidimensional Scaling Methods*. January 8, 1992 (with A.F.J. van Raan).
- R.R. Braam (Leiden), *Mapping of Science: Foci of Intellectual Interest in Scientific Literature*. January 1991 (with A.F.J. van Raan and H.F. Moed).
- A.W. van Blokland-Vogeleesang (Leiden), *Unfolding and Group Consensus Ranking for Individual Preferences*. January 10, 1991.
- R. Vonk (Leiden), *The Cognitive Representation of Persons: A Multidimensional Study of Implicit Personality Theory, Impression Formation, and Person Judgments*. September 6, 1990 (with R. van der Vlist and T. Willemsen).
- S. Van Buuren (Utrecht), *Optimal Scaling of Time Series*. January, 1990 (with R. Stobberingh and J. De Leeuw).
- H.A.L. Kiers (Groningen), *Three-way Methods for the Analysis of Qualitative and Quantitative Two-way Data*. November 23, 1989 (with J. Ten Berge).
- C.C.J.H. Bijleveld (Leiden), *Exploratory Linear Dynamic Systems Analysis*. September 28, 1989 (with J. De Leeuw).

#### **Member of international dissertation committees**

- K. van Deun (Catholic University of Leuven, Belgium), *Degeneraciess in Multidimensional Unfolding*; September 1, 2005 (dissertation supervisor, with L. Delbeke and P.J.F. Groenen).
- E. Risvik (Agricultural University of Norway, Ås, Norway), *New Approaches to Analysis and Understanding of Data in Sensory Science*, January 9-10, 1996. (Doctoral Thesis)
- M. Bennani Dosse (Université de Haute-Bretagne – Rennes II, Rennes, France), *Analyses métriques à trois voies*, October 22, 1993. (Président, Jury de doctorat d'université).
- J. Bénasséni (Université de Haute-Bretagne – Rennes II, Rennes, France), *Sensibilité des Méthodes d'Analyse Multivariée et des Représentations Euclidiennes des Dissimilarités*, January 23, 1993. (Jury Thèse d'Etat)

- G. Drouet d'Aubigny (Université des Sciences Sociales de Grenoble, Grenoble, France), L'Analyse Multidimensionnelle des Tableaux de Dissimilarité, January 27, 1989. (Jury Thèse d'Etat)

### **International Referee for Grant Proposals and Job Decisions**

Teachers College, Columbia University, New York (Promotion to full professor, 2006); The Leverhulme Trust, London (Emeritus fellowship recommendation, 2006); National Research Foundation of South Africa (Assessment of research quality, 2005); Eberly College of Science, the Pennsylvania State University (Associate professor/tenure, 2004); Catholic University of Leuven, Belgium (Search committee full professor with tenure, 2001 and 2004); Lawrence Livermore National Laboratory (UCRP program, Research Grant, June 1999); Natural Sciences and Engineering Research Council of Canada (NSERC, Research Grant, Nov 1998); University of California at Los Angeles (Full professorship/scale upgrade, 1995); Carnegie-Mellon University, Pittsburg (Full professorship with tenure, 1993).

### **Formal National and International Co-operation**

Lecturer and researcher, IOPS [Inter-University Research Institute and Graduate School for Psychometrics and Sociometrics].

Member, European Network of Laboratories "Mathematical Structures for the Analysis of Dissimilarities" (France, Netherlands, United Kingdom, Portugal).

Group Director, Research Network "Experimental and Quantitative Psychology". Participants: Leuven, Gent, Brussels (Belgium) and Amsterdam VU, Leiden, Twente, Nijmegen (The Netherlands).

### **Administration at Leiden University**

2006–	Member of Leiden University Academic Integrity Committee
2006–	Chair of Division of Methodology and Statistics in Department of Psychology
2001–2003	Head of Department of Psychology
1999–2003	Chair of Leiden University ICT & Teaching Advisory Committee (reporting to vice-chancellor)
1998–1999	Vice-Dean of Faculty of Social Sciences
1997–2004	Chair of Division of Methodology and Statistics in Department of Psychology
1993–1997	Chair of Permanent Research Committee (Faculty of Social Sciences)
1992–1994	Member of Research Profiling Committee (Faculty of Social Sciences)
1991–2000	Board of Trustees for the LUF Chair in Quantitative Science Studies (Leiden University Foundation)
1986–1987	Member of Faculteitsraad (Faculty Council of Social Sciences)
1973–	Member of an uncounted number of Search Committees, Awards Committees and Task Forces in Department of Psychology and Faculty of Social Sciences
1971–1973	Student Member of Subfaculteitsbestuur (Board of Department of Psychology)

## **Founding Sponsored Chairs**

**(on behalf of the Foundation for the Advancement of Data Theory)**

- 2004–2009 Chair in Multivariate Analysis of Three-Way Data (Department of Education, Leiden University; appointed: prof. dr. P.M. Kroonenberg)
- 2004–2009 Chair in Psychometrics, including Test Theory (Faculty of Psychology and Education, Free University, Amsterdam; appointed: prof. dr. H. Kelderman)
- 2002–2007 Chair in Structural Equation Modeling for Psychological Data (Department of Psychology, Leiden University; appointed: prof. dr. A. Mooijaart)