

2.1 Work experience

2005 – present	Professor (bijzonder hoogleraar) of Applied Statistics in Prevention, Utrecht University, 0.2 FTE, on behalf of the TNO Lorentz van Iterson Fonds (LIFT)
2001 – present	Head, Dept. of Statistics, TNO Quality of Life, Leiden
1991 – 2001	Statistical consultant, TNO Prevention and Health, Leiden
1990 – 1991	Assistant professor (universitair docent), Dept. of Research Methodology, University of Leiden
1986 – 1990	Research associate (wetenschappelijk medewerker), Dept. of Psychonomy, University of Utrecht
1983 – 1986	Student-assistant, Dept. of Criminology, University of Leiden

2.2 Work experience abroad

1996	Dept. of Statistics, Harvard
1990	Dept. of Psychology, UCLA
1988	Dept. of Psychology, UCLA

2.3 Relevant activities

2007 – 2010	Project leader, Fifth Dutch Growth Study
1999 – 2004	Project coordinator, two European projects

2.4 Grants

2009	EUR 75.000	Dutch Ministry of Health
2009	EUR 24.000	Corus
2009	EUR 15.000	Liverpool School of Tropical Medicine
2008	EUR 175.000	Dutch Ministry of Health
2007	EUR 13.734	Friesland Foods
2007	EUR 20.160	Liverpool School of Tropical Medicine
2007	EUR 398.000	Dutch Ministry of Health
2007	EUR 2.660	WHO Geneva
2006	EUR 8.900	GGD Terneuzen
2006	EUR 20.000	Loosco Fund, Noordwijk
2006	EUR 9.000	Pfizer, Capelle a/d IJssel
2003	EUR 45.000	ProGamma, Groningen
2003	EUR 6.160	MODINT, Amsterdam
2002	EUR 9.300	MODINT, Amsterdam
2001	EUR 222.000	European Commission, DG Sanco, Luxembourg
2001	EUR 41.000	Loosco Fund, Noordwijk (with H Rosendal)
2001	EUR 2.800	Erasmus University, Rotterdam
2000	EUR 112.000	ZON, The Hague (with PH Verkerk)
1999	EUR 158.000	European Commission, DG Sanco, Luxembourg (with M Hopman)
1999	EUR 86.000	ZON, The Hague (with HC Boshuizen)
1998	EUR 7.900	NIA-TNO, Hoofddorp
1996	EUR 96.000	Ministry of Health, The Hague (with W Ooijendijk)
1994	EUR 80.000	INTAS, Brussel (with JLA van Rijckevorsel)

1994	EUR 36.000	Sanofi BV, Maassluis (with M de Maat)
1992	EUR 30.000	Oliemans, Punter & Partners, Utrecht

3.1 Research interests

Multiple Imputation	Bayesian technique for the analysis of incomplete data. Major contribution: Flexible Gibbs sampling algorithm for generating imputations in multivariate data (MICE).
Child Growth	Statistical aspects of child growth. Major contributions: worm plot, stage line plot, D-score, likelihood ratio for screening, project leader Fifth Dutch Growth Study, consultation World Health Organisation, Inventor of “BMI meter”
Response Conversion	Bayesian technique to improve comparability of existing health information. Major contributions: Innovative application of IRT in health surveys, project coordination of European Commission (DG Sanco).
Other interests	Microsimulation, Systems Dynamics, Optimal Scaling, Time Series, Statistical Graphics

3.2 Methodological work in peer reviewed journals

van Buuren S, Groothuis-Oudshoorn CGM (2010). MICE: Multivariate Imputation by Chained Equations in R. *Journal of Statistical Software*, forthcoming. pdf, code

van Buuren, S (2010). Item imputation without specifying scale structure. *Methodology*, in press.

van Buuren S, Hayes DJ, Stasinopoulos DM, Rigby RA, ter Kuile FO, Terlouw DJ (2009). Estimating regional centile curves from mixed data sources and countries. *Statistics in Medicine*, 28(23), 2891-911.

van Buuren S, Ooms JC. Stage line diagram: An age-conditional reference diagram for tracking development. *Statistics in Medicine*, 28(11), 1569-79.

van Buuren S (2008). Improved accuracy when screening for human growth disorders by likelihood ratios. *Statistics in Medicine*, 27(9), 1527-38.

van Buuren S (2007). Worm plot to diagnose fit in quantile regression. *Statistical Modelling*, 7(4), 363-376.

Heymans MW, van Buuren S, Knol DL, van Mechelen W, de Vet HCW (2007). Variable selection under multiple imputation using the bootstrap in a prognostic study. *BMC Medical Research Methodology* 2007, 7:33.

van Buuren S (2007). Multiple imputation of discrete and continuous data by fully conditional specification. *Statistical Methods in Medical Research*, 16(3), 219-242.

- Jacobusse GJ, van Buuren S (2007). Computerized Adaptive Testing for measuring development of young children. *Statistics in Medicine*, 26, 2629-2638.
- van Buuren S, Brand JPL, Groothuis-Oudshoorn K, Rubin DB (2006). Fully conditional specification in multivariate imputation. *Journal of Statistical Computation and Simulation*, 76(12), 1049-1064.
- Jacobusse GJ, van Buuren S, Verkerk PH (2006). An interval scale for development of children aged 0-2 years. *Statistics in Medicine*, 25, 2272-2283.
- van Buuren S, Boshuizen HC, Reijneveld SA (2006). Towards targeted hypertension screening guidelines. *Medical Decision Making*, 26, 145-153.
- Borghini E, de Onis M, Garza C, Van den Broeck J, Frongillo EA, Grummer-Strawn L, van Buuren S, Pan H, Molinari L, Martorell R, Onyango A, Martines J (2006). Methods for constructing the WHO child growth references: Recommendations of a statistical advisory group. *Statistics in Medicine*, 25, 247-265.
- van Dommelen P, van Buuren S, Zandwijken GRJ, Verkerk PH (2005). Individual growth curve models for assessing evidence based referral criteria in growth monitoring. *Statistics in Medicine*, 24, 3663-3674.
- van Buuren S, Eyres S, Tennant A, Hopman-Rock M (2005). Improving comparability of existing data by Response Conversion. *Journal of Official Statistics*, 21, 53-72.
- van Buuren S, Eyres S, Tennant A, Hopman-Rock M (2003). Assessing comparability of dressing disability in different countries by response conversion. *European Journal of Public Health*, 13 (3 Suppl): 15-19.
- Brand JPL, van Buuren S, Groothuis-Oudshoorn CGM, Gelsema ES (2003). A toolkit in SAS for the evaluation of multiple imputation methods. *Statistica Neerlandica*, 57(1), 36-45.
- van der Heijden PGM, van Buuren S, Fekkes M, Radder JJ, Verrips E (2003). Unidimensionality and reliability under Mokken scaling of the Dutch language version of the SF-36. *Quality of Life Research*, 12(2), 189-198.
- van der Heijden PGM, van Puijenbroek E, van Buuren S, van der Hofstede JW. (2002) The assessment of adverse drug reactions from spontaneous reporting systems. The influence of underreporting on odds ratios. *Statistics in Medicine*, 21, 2027-2044.
- van Buuren S, Hopman-Rock M (2001). Revision of the ICDH Severity of Disabilities Scale by data linking and item response theory. *Statistics in Medicine*, 20, 1061-1076.
- van Buuren S, Fredriks AM (2001) Worm plot: A simple diagnostic device for modeling growth reference curves. *Statistics in Medicine*, 20, 1259-1277.
- Hopman-Rock M, van Buuren S, de Kleijn-de Vrankrijker M (2000). Polytomous Rasch analysis as a tool for revision of the severity of disability code of the ICDH. *Disability and Rehabilitation*, 22, 363-371.
- van Buuren S, Boshuizen HC, Knook DL (1999). Multiple imputation of missing blood pressure covariates in survival analysis. *Statistics in Medicine*, 18, 681-694.

- van Buuren S (1997). Optimal transformations for categorical autoregressive time series. *Statistica Neerlandica*, 51, 90-106.
- van Buuren S (1997). Fitting ARMA time series by structural equation models. *Psychometrika*, 62, 215-236.
- van Buuren S, van Rijkevorsel JLA (1992). Imputation of missing categorical data by maximizing internal consistency. *Psychometrika*, 57, 567-580.
- van Buuren S, de Leeuw J (1992). Equality constraints in multiple correspondence analysis. *Multivariate Behavioral Research*, 27, 567-583.
- van Buuren S (1992). Analyzing time-intensity responses in sensory evaluation. *Food Technology*, 46, 101-104.
- van Buuren S (1992). Predictable linear combinations from categorical time series. *Statistica Applicata: Italian Journal of Applied Statistics*, 4, 743-751.
- van Buuren S, Heiser WJ (1989). Clustering n objects into k groups under optimal scaling of variables. *Psychometrika*, 54, 699-706.
- van Buuren S (1987). Using multiple correspondence analysis in sensory quality research. *Chemistry and Industry*, 13, 447-450.

3.4 Applied work in peer reviewed journals

- de Kroon, MLA, Renders CM, van Wouwe JP, van Buuren, S, Hirasing RA. (2010) . The Terneuzen birth cohort: BMI changes between 2 and 6 years correlate strongest with adult overweight. *PLoS ONE*.
- van Dommelen P, Grote FK, Oostdijk W, de Muinck Keizer-Schrama SM, Bouquet J, Hendriks JJ, Kouwenberg J, Verkerk PH, van Buuren S, Wit JM (2009). Growth monitoring to detect children with cystic fibrosis. *Hormone Research*, 72(4), 218-24.
- Vlieger AM, Robroch A, van Buuren S, Kiers J, Rijkers G, Benninga MA, te Biesebeke R (2009). Tolerance and safety of *Lactobacillus paracasei* ssp. *paracasei* in combination with *Bifidobacterium animalis* ssp. *lactis* in a prebiotic-containing infant formula: a randomised controlled trial. *British Journal of Nutrition*, 102(6), 869-75.
- Heymans MW, Anema JR, van Buuren S, Knol DL, van Mechelen W, de Vet HC (2009). Return to work in a cohort of low back pain patients: development and validation of a clinical prediction rule. *Journal of Occupational Rehabilitation*, 19(2), 155-65.
- Bannink EM, van Sassen C, van Buuren S, de Jong FH, Lequin M, Mulder PG, de Muinck Keizer-Schrama SM (2009). Puberty induction in Turner syndrome: results of oestrogen treatment on development of secondary sexual characteristics, uterine dimensions and serum hormone levels. *Clinical Endocrinology*, 70(2), 265-73.
- Weisglas-Kuperus N, Hille ET, Duivenvoorden HJ, Finken MJ, Wit JM, van Buuren S, van Goudoever JB, Verloove-Vanhorick SP; Dutch POPS-19 Collaborative Study Group (2009). Intelligence of very preterm or very low birthweight infants in young adulthood. *Archives of Disease in Childhood, Fetal Neonatal Ed.*, 94(3), F196-200.

- van Wouwe JP, Lanting CI, van Dommelen P, Treffers PE, van Buuren S (2009). Breastfeeding duration related to practised contraception in the Netherlands. *Acta Paediatrica*, 98(1), 86-90.
- de Kroon ML, Renders CM, Kuipers EC, van Wouwe JP, van Buuren S, de Jonge GA, Hirasing RA (2008). Identifying metabolic syndrome without blood tests in young adults—the Terneuzen Birth Cohort. *European Journal of Public Health*, 18(6), 656-60.
- van Dommelen P, Grote FK, Oostdijk W, Keizer-Schrama SM, Boersma B, Damen GM, Csizmadia CG, Verkerk PH, Wit JM, van Buuren S (2008). Screening rules for growth to detect celiac disease: a case-control simulation study. *BMC Pediatrics* 2008, 11, 8:35.
- Grote FK, Oostdijk W, De Muinck Keizer-Schrama SM, van Dommelen P, van Buuren S, Dekker FW, Ketel AG, Moll HA, Wit JM (2008). The diagnostic work up of growth failure in secondary health care; an evaluation of consensus guidelines. *BMC Pediatrics*, 8, 21.
- van Dommelen P, de Gunst M, van der Vaart A, van Buuren S, Boomsma D (2008). Growth references for height, weight and body mass index of twins aged 0-2.5 years. *Acta Paediatrica*, 97(8), 1099-104.
- van Buuren S, van Wouwe JP (2008). WHO Child Growth Standards in action. *Archives of Disease in Childhood*, 93(7), 549-51.
- Grote FK, van Dommelen P, Oostdijk W, de Muinck Keizer-Schrama SMPF, Verkerk PH, Wit JM, van Buuren S (2008). Developing an evidence-based guideline for the referral of short stature. *Archives of Disease in Childhood*, 93(3), 212-7.
- Zaadstra BM, Chorus AMJ, van Buuren S, Kalsbeek H, van Noort JM. (2008). Selective association of multiple sclerosis with infectious mononucleosis. *Multiple Sclerosis*, 14(3), 307-13.
- Eijkemans M, Mommers M, de Vries SI, van Buuren S, Stafleu A, Bakker I, Thijs C (2008). Asthmatic symptoms, physical activity, and overweight in young children: a cohort study. *Pediatrics*, 121(3), e666-72.
- Ravens-Sieberer U, Gosch A, Rajmil L, Erhart M, Bruil J, Power M, Duer W, Auquier P, Cloetta B, Czemy L, Mazur J, Czimbalmo A, Tountas Y, Hagquist C, Kilroe J; KIDSCREEN Group (2008). The KIDSCREEN-52 quality of life measure for children and adolescents: psychometric results from a cross-cultural survey in 13 European countries. *Value in Health*. 11(4), 645-58.
- Jacobusse GW, van Buuren S, Verkerk PH (2008). Ontwikkeling van de D-score. Een samenvattende maat voor het Van Wiechenonderzoek. *Tijdschrift voor Jeugdgezondheidszorg*, 40(1), 11-14.
- van den Hurk K, van Dommelen P, van Buuren S, Verkerk PH, HiraSing RA (2007). Prevalence of overweight and obesity in The Netherlands in 2003, compared to 1980 and 1997. *Archives of Disease in Childhood*, 92(11), 992-5.
- Grote FK, Oostdijk W, de Muinck Keizer-Schrama SMPF, Dekker FW, van Dommelen P, van Buuren S, Lodder-van der Kooij AM, Verkerk PH, Wit JM (2007). Referral patterns of children with poor growth in primary health care. *BMC Public Health* 2007, 7:77.

Dousma M, Wierdsma N, van Ede J, van Buuren S, Heijmans HSA, de Vries TW (2007). Dieting in children: A population-based study in children aged between 9 and 12 years. *Acta Paediatrica*, 96, 273-5.

van Dommelen P, van Wouwe JP, Breuning-Boers JM, van Buuren S, Verkerk PH. (2007). Reference chart for relative weight change to detect hypernatraemic dehydration. *Archives of Diseases in Childhood*, 92, 490-494.

van Dommelen P, van Wouwe JP, Breuning-Boers JM, van Buuren S, Verkerk PH. (2007). Gewichtsverlies bij borstgevoede pasgeborenen. *NVL info*, 10(4), 24-25. Tevens verschenen in *Tijdschrift voor Verloskundigen* 2008, 33, 23-25.

Heymans MW, Anema JR, van Buuren S, Knol DL, van Mechelen W, de Vet HC. (2007) Terugkeer naar het werk in een cohort van werknemers met lage rugpijn: ontwikkeling en validatie van een klinische predictieregel. *Nederlands Tijdschrift voor Fysiotherapie*, 117(6): 199-206.

Razzaghi-Azar M, Sadigh N, Moghimi A, Montazer M, Golnari P, Shulami LZ, van Buuren S, Sadeghi HM, Kazemi AZ, Nezhad SMF (2006). Age of the Onset of Puberty in Girls and Boys of Tehran, Iran. *Annals of Human Biology*, 33(5/6), 628-633

van den Hurk K, van Dommelen P, de Wilde JA, Verkerk PH, van Buuren S, HiraSing RA (2006). Snelle toename gewicht bij kinderen tussen de 4 en 15 jaar. *Tijdschrift voor Jeugdgezondheidszorg*, 38, 83-84.

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Fredriks AM, van Buuren S, Hira Sing RA, Wit JM, Verloove-Vanhorick SP (2005). Alarming prevalences of overweight and obesity for children of Turkish and Moroccan origin, according to the international standard. *Acta Paediatrica*, 94(4):496-8.

Fredriks AM, van Buuren S, van Heel WJM, Verloove-Vanhorick SP, Wit JM (2005). Nation-wide age references for sitting height, leg length and sitting height/height ratio and their diagnostic value for disproportionate growth disorders. *Archives of Diseases in Childhood*, 90(8):807-12.

Kalanda BF, van Buuren S, Verhoeff FH, Brabin BJ (2005). Anthropometry of fetal growth in rural Malawi in relation to maternal malaria and HIV status. *Archives of Diseases in Childhood, Fetal Neonatal Ed.*;90(2):F161-5.

Kalanda BF, van Buuren S, Verhoeff FH, Brabin BJ (2005). Anthropometry of Malawian live births between 35 and 41 weeks of gestation. *Annals of Human Biology*, 32(5), 639-49.

Kalanda BF, van Buuren S, Verhoeff FH, Brabin BJ (2005). Catch-up growth in Malawian babies, a longitudinal study of normal and low birthweight babies in a malarious endemic area. *Early Human Development*, 81(10): 841-50.

van Buuren S (2004). Afkapwaarden van de 'body-mass index' (BMI) voor ondergewicht van Nederlandse kinderen. *Nederlands Tijdschrift voor Geneeskunde*, 148(40):1967-72.

van Buuren S, Bonnemaijer-Kerckhoffs DJA, Grote FK, Wit JM, Verkerk PH. (2004). Many referrals under Dutch short stature guidelines. *Archives of Diseases in Childhood*, 89, 351-352.

- van Buuren S, van Dommelen P, Zandwijken GR, Grote FK, Wit JM, Verkerk PH. (2004) Towards Evidence Based Referral Criteria for Growth Monitoring. *Archives of Diseases in Childhood*, 89, 336-341.
- Dommelen van P, Gunst de MCM, Vaart van der AW, Buuren van S, Boomsma DI (2004). Groeidiagrammen voor lengte, gewicht en 'body mass index' van tweelingen in de peutersertijd. *Nederlands Tijdschrift voor Geneeskunde*, 148(27):1345-50.
- Fredriks AM, Buuren van S, Jeurissen SE, Dekkers FW, Verloove-Vanhorick SP (2004). Height, weight and body mass index and pubertal development references for children of Moroccan origin in the Netherlands. *Acta Paediatrica*, 93:817-24.
- Hulst J, Joosten K, Zimmerman L, Hop W, van Buuren S, Büller H, Tibboel D, van Goudoever J (2004). Malnutrition in critically ill children: from admission to 6 months after discharge. *Clinical Nutrition*, 23, 223-232.
- Wezel van B, Bruil J, Buuren van S, Fredriks A (2004). Signaleren van overgewicht en (secundaire) preventie bij jeugdigen. *Nederlands Tijdschrift voor Diëetisten*, 59(2):42-7.
- Wouwe van JP, Jacobusse G, Reeser HM, Buuren van S (2004). Seasonality and time-space clustering for date of birth and onset of childhood type 1 diabetes (T1D) in the Netherlands between 1992 and 2001. *European Journal of Clinical Investigation*, 37(suppl. I):7.
- Fredriks AM, van Buuren S, Jeurissen SE, Dekker FW, Verloove-Vanhorick SP, Wit JM (2003). Height, weight, body mass index and pubertal development reference values for children of Turkish origin in the Netherlands. *European Journal of Pediatrics*, 162(11), 788-793.
- De Wilde JA, Middelkoop BJC, van Buuren S, Verkerk PH (2003). Overgewicht bij Haagse schoolkinderen. *Epidemiologisch Bulletin*, 38(4), 12-23.
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- Fredriks AM, van Buuren S, Hirasig RA, Wit JM, Verloove-Vanhorick SP (2001). De Quetelet-index ('body mass index') bij jongeren in 1997 vergeleken met 1980; nieuwe groeidiagrammen voor de signalering van ondergewicht, overgewicht en obesitas. *Nederlands Tijdschrift voor Geneeskunde*, 145, 1296-1303.
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- Nederlands Tijdschrift voor Geneeskunde*, 145, 1303-1308. Tevens verschenen in *Tijdschrift voor Jeugdgezondheidszorg* 2003, 34, 82-87.
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- Verhoeff FH, Brabin BJ, van Buuren S, Chimsuku L, Kazembe P, Wit JM, Broadhead RL (2001). An analysis of intra-uterine growth retardation in rural Malawi. *European Journal of Clinical Nutrition*, 55, 682-689.
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- Hirasings RA, Reeser HM, de Groot RRM, Ruwaard D, van Buuren S, Verloove-Vanhorick SP (1996). Trends in hospital admissions among children aged 0-19 years with Type I diabetes in The Netherlands. *Diabetes Care*, 19(5), 431-434.

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3.4 Other work

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3.5 Invited presentations

- 2009 3rd workshop on Analysis of Incomplete Data (AID), Bamberg, December 2009
- 2009 17th Aschauer Soirée, Nov 2009
- 2009 2nd International Biometric Society Channel Network, Gent, April 2009
- 2009 Nestle Nutrition 65th Workshop, Malaysia, April 2009
- 2007 WHO Meeting on adult obesity and overweight estimates methodology, Portugal, 11-13 Dec.
- 2007 VVS-OR, Tilburg, Sept 29
- 2007 International workshop on Rasch modelling, Vannes, June 2007.
- 2007 International workshop on Missing data, INSERM. Toulon, May 2007.
- 2007 VVS, Voorburg, March 27 2007.
- 2007 Workshop on the new WHO child growth standards, Brindisi, Italy, 28-30 March 2007
- 2006 GGD Amsterdam, Dec 2006.
- 2006 TEHAF study group meeting, Maastricht, Oct 2007.
- 2006 ICMS Workshop on quantile regression and LMS. Edinburg, June 2006.
- 2006 International workshop “Advances in item response theory”. Klitgaarden, May 2006
- 2006 4th International Workshop on Comparative Survey Design and Implementation, The Hague, Feb 2006.
- 2005 Multiple Imputation Workshop. MRC Biostatistics Unit, Cambridge, U.K
- 2005 3RD International Workshop on Comparative Survey Design and Implementation, Madrid, March 9-12, 2005.
- 2005 Workshop on Measurement in Health and Education. Perth, Feb 7-11, 2005.
- 2004 6th workshop DISABKIDS, Robert Koch Institute, Berlin
- 2004 Missing data in prospective economic evaluations. Erasmus MC, Rotterdam, Dec 9, 2004.
- 2004 Workshop on Modern Psychometric Applications in Rehabilitation Outcome Measurement. Sept 29, 2004, Stockholm.

- 2004 Te klein, te dik, te dun. Leiden, 16 juni 2004.
- 2004 2nd International Workshop on Comparative Survey Design and Implementation, Paris, 1 april 2004.
- 2004 Second International Conference on Measurement in Health, Education, Psychology and Marketing. Perth, 20 Januari 2004.
- 2003 Expert meeting on Growth References (MGRS), World Health Organisation (WHO), Geneva.
- 2002 Task Force on Health Surveys, Eurostat, Luxembourg.
- 2002 Symposium on Nonresponse Questionnaire Split and Multiple Imputation, Nuremberg.
- 2002 International Conference on Improving Surveys (ICIS), Copenhagen.
- 2002 Workshop on Rasch models in health, Leeds.
- 2002 European Disability Measurement, European meeting of United Nations working group, Brussels.
- 2001 Health Monitoring Program, European Commission, DG Sanco, Luxembourg.
- 1999 Central Bureau of Statistics, Voorburg.
- 1998 Workshop on human growth, Altenhof.
- 1998 Symposium Fourth Dutch Growth Study, The Hague.
- 1997 Dutch Classification Society, Leiden.
- 1996 Dept. of Statistics, Harvard.
- 1996 Dept. of Psychology, Harvard.
- 1995 Workshop State-space modelling for the behavioral sciences, Leiden.
- 1995 Meeting of the Dutch Classification Society, Rijswijk.
- 1994 Dept. of Medical Informatics, Erasmus University.
- 1993 LOMO Workshop on Longitudinal Research, Amsterdam.
- 1990 Workshop on applied statistics in public health research, Leiden.
- 1988 Free-choice profiling, Utrecht.
- 1987 Food Group Division, Royal Statistical Society, Londen.

3.6 Contributed presentations

- 2007 11th International Congress on Auxology, Tokyo, Sept 2007.
- 2006 Wetenschapsdag TNO KvL, Oct 2006.
- 2005 15th workshop on European Childhood Obesity Group (ECOG), Vienne, Oct 2005.
- 2005 IMPS 2005, Annual meeting of the Psychometric Society, Tilburg, July 2005.
- 2005 Fifth International Amsterdam Multilevel Conference, Amsterdam, March 2005.
- 2004 10th International Congress on Auxology, Florence, July 5. 2004.
- 2003 WEON 2003, Rotterdam
- 2002 WEON 2002, Nijmegen.
- 2001 New Techniques and Technologies in Statistics, Crete.
- 2000 COMPSTAT, Utrecht.
- 2000 International Workshop on 'Statistics with deficient data', Munich.
- 1999 International Conference on Survey Nonresponse, Portland.
- 1997 International Society for Auxology and Human Development, Philadelphia.
- 1995 IER Regional Meeting, The Hague.
- 1995 Meeting of the Psychometric Society, Leiden.
- 1993 49th Meeting of the ISI, Florence.
- 1992 SMABS, Nijmegen.
- 1992 WEON, Rotterdam.
- 1991 Meeting of the Psychometric Society, Trier.
- 1991 Meeting of the Dutch and Italian Schools, Anacapri.
- 1988 SMABS, Groningen.

- 1988 Meeting of the Psychometric Society, Los Angeles.
 1987 Meeting of the Psychometric Society, Enschede.

3.7 Organization and program committees

- 2007 WHO, temporary advisor. Meeting on adult obesity and overweight estimates methodology, Portugal, 11-13 December.
 2007 Organiser, workshop System Dynamics for modelling obesity. TNO QoL, July 2007.
 2007 WHO, temporary advisor. Workshop on implementation of the WHO child growth standards, Brindisi, 28-30 March 2007
 2006 – 2007 WHO, temporary advisor. Workshop on Longitudinal Growth References (MGRS), World Health Organisation (WHO), Geneva, 19-21 March 2007
 2006 Organiser VOC-meeting on Measurement, April 28 2006 (with P. Groenen).
 2005 Organiser VOC-meeting on Support Vector Machines, April 15 2005.
 2003 - 2006 Organiser “Dwalingen in de Methodologie”
 2002 Organiser, MICE workshop, TNO Leiden
 2001 – 2003 WHO, temporary advisor. Expert group on Growth References, World Health Organisation (WHO), Geneva.
 2000 – 2006 Member of board, Dutch Classification Society VOC
 2000 – 2001 Chair, program committee SSP-symposium on Incomplete Data, Utrecht Nov 2001 (VVS-OR)
 1998 – 1999 Member, program committee, SSP-symposium "Gis en Waarachtig", Nov. 1999 (VVS-OR)
 1998 – 1998 Member, program committee, Second Lustrum of the Dutch Classification Society VOC, Nov. 1999

3.8 Editorial activities

- 2001 – 2002 Editor, special issue on imputation, *Statistica Neerlandica* (with R. Eisinga)
 2001 – 2007 Associate Editor, *Statistica Neerlandica*
 2000 – 2006 Editor, web site Dutch Classification Society www.voc.ac
 2000 – present Editor, web site www.multiple-imputation.com
 2000 – 2002 Editor, newsletter Dutch Classification Society VOC

Reviews for *British Medical Journal*, *Statistics in Medicine*, *Psychometrika*, *Journal of Official Statistics*, *Medical Decision Making*, *Journal of Clinical Epidemiology*, *Archives of Diseases in Childhood*, *Multivariate Behavioral Research*, *Computational Statistics and Data Analysis*, *World Health Organisation Reports*, *Pediatrics*, *European Journal of Epidemiology*, *Statistical Modelling*, *Statistical Methods in Medical Research*.

3.9 Professional memberships

- 2005 – present Fellow of the Royal Statistical Society
 2005 – present Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)
 2004 – present European Childhood Obesity Group (ECOG)

2000		Registration as Biostatisticus-VVS
1991 – present		Vereniging van Epidemiologie (VVE)
1991 – present		American Statistical Association (ASA)
1989 – present		Vereniging voor Statistiek en Operationele Research (VVS-OR)
1989 – present		Vereniging voor Ordinatie en Classificatie (VOC)
1989 – present		Psychometric Society

3.10 Software

2002	MI-EVAL	Multiple imputation evaluation. SAS-IML.
2001	GO	Microsimulation Hypertension Screening. S-Plus.
2000	WP	Worm plot. S-Plus, R.
2000	MICE	Multivariate imputation by Chained Equations. S-Plus, R.
1997	GIDS	Gehandicapten Informatie DoorDenk Systeem. Excel VBA.
1993	TRIM	Transformation-Imputation program. SAS-IML.
1991	MISTRESS	Imputation of incomplete data. SAS-IML.
1990	CAB	Time series analysis with optimal scaling. APL.
1990	ALSPAK	Macintosh implementation of ALS programs: C, FORTRAN, Mac-Toolbox.
1988	PROC PC	Generalized Procrustes analysis. C.
1988	XALS	ALS80 implementation on IBM VM/CMS and VAX-VMS operating systems. FORTRAN, IBM EXEC, VAX DCL.
1986	GROUPALS	Cluster analysis for variables of mixed measurement levels. FORTRAN.

3.11 Patent application

Age-Dependent Relative Weight Indications. Inventor S van Buuren, 2008.

4.1 Courses taught at university

2009	Incomplete data, Research master, University of Utrecht
2008	Incomplete data, Research master, University of Utrecht
2007	Incomplete data, Research master, University of Utrecht
1991	Survey research, University of Leiden
1991	Introduction to psychometric methods, University of Leiden
1990	MANOVA, University of Utrecht
1989	Non-linear multivariate analysis, University of Utrecht
1988	Loglinear analysis, University of Utrecht
1987	Data-analytic models, University of Utrecht

4.2 Other educational activities

2009	1-day crash course on multiple imputation, University of Leiden
2008	1-day crash course on multiple imputation, University of Leiden
2007	1-day crash course on multiple imputation, University of Leiden

2007	3-day workshop on sensitivity analysis in imputation, INSERM 708, Paris (with M. Chavance)
2006	1-day crash course on multiple imputation, University of Leiden

4.2 Ph.D. supervision

Current projects

2009 –	G Vink, University of Utrecht, Statistics Netherlands
2009 –	R de Jong, University of Hamburg
2008 –	JA de Wilde, University of Leiden
2008 –	H Talma, VUmc
2007 –	Y Schönbeck, TNO Quality of Life, University of Utrecht
2007 –	M. de Kroon, VUmc

Closed projects	
2005 – 2008	P van Dommelen, <i>Evidence-based referral criteria in growth monitoring</i> . TNO Quality of Life, Univ of Utrecht, Dec. 2008,
1994 – 1999	JPL Brand, <i>Development, implementation and evaluation of multiple imputation strategies for the Statistical Analysis of Incomplete Data Sets</i> . Erasmus Rotterdam (with E.S. Gelsema), May 1999

4.3 Supervision for master's thesis (scriptie)

2010	E Aarts, University of Utrecht
2009	G Vink, University of Leiden
2008	I Savvala, University of Utrecht
2007	L Reijngoud, University of Leiden
2006	R de Jong, University of Leiden
2004	N Vestering, University of Leiden
2001	R van Wely, University of Leiden
1992	JPL Brand, VU Amsterdam
1989	P Krabbe, University of Utrecht
1988	AP Veldhoen, University of Utrecht
1987	GB Dijksterhuis, University of Utrecht
1986	PE Roos, University of Utrecht

4.4 Other supervision

2009	M van Rossum, University of Utrecht
2009	C Ninaber, University of Leiden
2007	S van der Grind, University of Leiden
2007	P Homma, VUmc
2005	L Reijngoud, University of Leiden
1996	V Citovtsev, Univ. of Moscow
1996	K Kommissarov, Univ. of Moscow
1991	T Bardaine, C Houée, Univ. Vannes