

Stef van Buuren

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1.1 Contact details

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1.2 Education

1986 - 1990	Ph.D. Social Sciences, University of Utrecht
1982 - 1986	M.A. Psychology, Research Methodology, University of Leiden
1978 - 1982	B.A. Psychology, University of Leiden

1.3 Dissertation

1990	<i>Optimal scaling of time series</i>
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Promotores:

Prof. Dr. R. Stobberingh (University of Utrecht)

Prof. Dr. J. de Leeuw (UCLA, Los Angeles)

Prof. Dr. W.J. Heiser (University of Leiden)

1.4 Inaugural lecture

2006	<i>Een sprong naar de maan</i>
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2.1 Work experience

2015 – present	Professor of Missing Data, Utrecht University, 0.4 FTE
1991 – present	Netherlands Organization for Applied Scientific Research TNO, Leiden, various roles: statistical consultant, head of department of statistics, senior scientist
2005 – 2014	Professor of Applied Statistics in Prevention (bijzonder hoogleraar), Utrecht University, 0.2 FTE, on behalf of the TNO Lorentz van Iterson Fonds (LIFT)
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

2013	Trainee, senior and principal scientist programme
2007 – 2010	Project leader, Fifth Dutch Growth Study
1999 – 2004	Project coordinator, two European projects

2.4 Grants

2015	EUR 15.000	Utrecht Medical Centre, Utrecht
2015	USD 318.000	Bill & Melinda Gates Foundation, Seattle
2015	USD 42.000	Bill & Melinda Gates Foundation, Seattle
2015	EUR 20.000	Hero Nederland BV, Breda
2014	EUR 12.000	University of Maastricht, Maastricht
2013	EUR 42.000	Australian Curriculum, Assessment and Reporting Authority (ACARA), Sydney
2013	EUR 7.200	Netherlands Institute for Health Services Research (NIVEL), Utrecht
2013	EUR 18.600	Emotional Brain BV, Almere
2012	EUR 40.000	Hero Nederland BV, Breda
2012	EUR 51.700	Australian Curriculum, Assessment and Reporting Authority (ACARA), Sydney
2010	EUR 52.250	European Food and Safety Authority (EFSA), Parma
2010	EUR 91.625	ZonMw, Methodology program, The Hague
2010	EUR 79.288	ZonMw, Methodology program (with Paulussen, Fleuren), The Hague
2010	EUR 13.638	Augeo Foundation

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

3.1 Bibliometric data

10457 citations (Google scholar), h-index: 42 (6Dec2015)

URL: <http://scholar.google.com/citations?user=3y5C0UAAAAJ&hl=en>

Most cited paper:

van Buuren S, Boshuizen HC, Knook DL (1999). Multiple imputation of missing blood pressure covariates in survival analysis. *Statistics in Medicine*, 18, 681-694. 1314 citations.

This paper is highly influential and ranked as *number 20 out of 11000 papers* that appeared in the top six statistical journals during the period 1985-2002. See MJ Schell (2010), Identifying Key Statistical Papers From 1985 to 2002 Using Citation Data for Applied Biostatisticians, *The American Statistician*, 64(4), 310-317.

3.2 Methodological work in peer reviewed journals

Hermanussen M, Stec K, Aßmann C, Meigen C, van Buuren S (2016). Synthetic growth reference charts. *American Journal of Human Biology*, 28:98-111.

Jolani S, Debray TP, Koffijberg H, van Buuren S, Moons KG (2015). Imputation of systematically missing predictors in an individual participant data meta-analysis: a generalized approach using MICE. *Statistics in Medicine*, 34(11):1841-1863.

Vink G, Lazendic G, van Buuren S (2015). Partitioned Predictive mean matching as a multilevel imputation technique. *Psychological Test and Assessment Modeling*, 57(4), 577-594.

van Buuren S (2014) Curve matching: A data-driven technique to improve individual prediction of childhood growth. *Annals of Nutrition & Metabolism*, 65(3), 225-231.

van Buuren S (2014). Growth charts of human development. *Statistical Methods in Medical Research*, 23(4): 346-368.

van Dommelen P, van Buuren S (2014). Methods to obtain referral criteria in growth monitoring. *Statistical Methods in Medical Research*, 23(4): 369-389.

Vink G, Frank LE, Pannekoek J, van Buuren S (2014) Predictive mean matching imputation of semicontinuous variables. *Statistica Neerlandica*, 68(1), 61-90.

Jolani S, Frank LE, van Buuren S (2014). Dual imputation model for incomplete longitudinal data. *British Journal of Mathematical and Statistical Psychology*, 67(2), 197-212.

Jolani S, van Buuren S (2014) Doubly robust imputation of incomplete binary longitudinal data. *Journal of Biometrics & Biostatistics*, 5, 3.

- Doove LL, van Buuren S, Dusseldorp E (2014). Recursive partitioning for missing data imputation in the presence of interaction effects. *Computational Statistics & Data Analysis*, 72, 92-104.
- de Jong R, van Buuren S, Spiess M (2014). Multiple imputation of predictor variables using generalized additive models. *Communications in Statistics - Simulation and Computation*, 10.1080/03610918.2014.911894, 1-18.
- Schuller AA, van Buuren S (2014). Estimation of caries experience by multiple imputation and direct standardization. *Caries Research*, 48(2), 91-95.
- Vink G, van Buuren S (2013). Multiple imputation of squared terms. *Sociological Methods & Research* 42(4) 598-607.
- Jolani S, van Buuren S, Frank LE (2013). Combining the complete-data and nonresponse models for drawing imputations under MAR. *Journal of Statistical Computation and Simulation*, 83(5), 868-879.
- van Buuren S, Groothuis-Oudshoorn K (2011). MICE: Multivariate Imputation by Chained Equations in R. *Journal of Statistical Software*, 45(3), 1-67.
- van Buuren, S (2010). Item imputation without specifying scale structure. *Methodology*, 6(1), 31-36.
- 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 (2009). 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.

Borghi 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.

3.3 Applied work in peer reviewed journals

van Buuren S, Bezemer RA, Reijneveld SA, L'Hoir MP (2015). Predictie van groei vanaf jonge leeftijd: Curve matching met de TNO Groeivoorspeller [Prediction of growth from an early age: curve matching with the TNO growth predictor]. *Nederlands Tijdschrift voor Geneeskunde*, 159, A8547.

Schönbeck Y, van Dommelen P, HiraSing RA, van Buuren S (2015). Thinness in the era of obesity: trends in children and adolescents in The Netherlands since 1980. *Eur J Public Health*, 25(2): 268-273.

Schönbeck Y, van Dommelen P, HiraSing RA, van Buuren S (2015). Trend in height of Turkish and Moroccan children living in the Netherlands. *PLoS ONE* 10(5): e0124686. doi:10.1371/journal.pone.0124686.

Hermanussen M, Anisimova A, Abmann C, Van Buuren S, Camara AD, Elhusseini MA, Hassan M, El-Shabrawi MH, Godina EZ, Gomula A, Groth D, Koziel S, Lieberman LS, Meigen C, Mumm R, Nariyama K, Nowak-Szczepanska N, Novokmet N, Satake T, Scheffler C, Soderhall J, Suchomlinov A, Tutkuvieni J, Wit JM, Witwer-Backofen U, Yestrebky CL (2015). "Proceedings of the 22nd Aschauer Soiree on Growth and Health Screening", held at Altenhof, Germany, November 15th, 2014. *Pediatr Endocrinol Rev*. Mar;12(3):323-32. PubMed PMID: 25962211.

Cramm JM, Jolani S, van Buuren S, Nieboer AP (2015). Better experiences with quality of care predict well-being of patients with chronic obstructive pulmonary disease in the Netherlands. *Int J Integr Care*. Jun 22;15:e028.

Ong KK, Kennedy K, Castañeda-Gutiérrez E, Forsyth S, Godfrey KM, Koletzko B, Latulippe ME, Ozanne SE, Rueda R, Schoemaker MH, van der Beek EM, van Buuren S,

- Fewtrell M (2015). Postnatal growth in preterm infants and later health outcomes: a systematic review. *Acta Paediatr.* Oct;104(10):974-86. doi: 10.1111/apa.13128.
- Hayes DJ, van Buuren S, ter Kuile FO, Stasinopoulos DM, Rigby RA, Terlouw DJ (2015). Developing regional weight-for-age growth references for malaria-endemic countries to optimize age-based dosing of antimalarials. *Bull World Health Organ.* Feb 1;93(2):74-83. doi: 10.2471/BLT.14.139113.
- Gerards SM, Dagnelie PC, Gubbels JS, van Buuren S, Hamers FJ, Jansen MW, van der Goot OH, de Vries NK, Sanders MR, Kremers SP (2015). The effectiveness of lifestyle triple P in the Netherlands: a randomized controlled trial. *PLoS One.* Apr 7;10(4):e0122240.
- van Dommelen P, Schönbeck Y, HiraSing RA, van Buuren S (2015). Call for early prevention: prevalence rates of overweight among Turkish and Moroccan children in The Netherlands. *Eur J Public Health*, 25(5):828-33. doi: 10.1093/eurpub/ckv051.
- Joustra SD, van der Plas EM, Goede J, Oostdijk W, Delemarre - van de Waal HA, Hack WWM, van Buuren S, Wit JM (2015). New reference charts for testicular volume in Dutch children and adolescents allow the calculation of standard deviation scores. *Acta Paediatr.*;104(6):e271-8. doi: 10.1111/apa.12972.
- van Buuren S, Wijnmalen, DJD (2015). Measuring psychosocial impact of CBRN incidents by the Rasch model. *Journal of Applied Measurement*, 16(3), 242-250.
- de Wilde JA, van Dommelen P, van Buuren S, Middelkoop BJ (2015). Height of South Asian children in the Netherlands aged 0-20 years: secular trends and comparisons with current Asian Indian, Dutch and WHO references. *Ann Hum Biol*, 42(1):38-44.
- van Buuren S, Perenboom R (2014) The fountain of age: A remarkable 3D shape that portrays health and functional differences among the European elderly. *Int J Environ Res Public Health*, 11(4): 4078-4090.
- Fleuren MAH, Paulussen TGWM, van Dommelen P, van Buuren S (2014). Towards a measurement instrument for determinants of innovations. *International Journal for Quality in Health Care*, 26(5): 501-510.
- Koopmans L, Bernaards CM, Hildebrandt VH, van Buuren S, van der Beek AJ, de Vet HCW (2014) Improving the Individual Work Performance Questionnaire using Rasch Analysis. *Journal of Applied Measurement*, 15(2), 160-175.
- Hermanussen M, Meitinger T, Veldhuis JD, Low MJ, Pfaffle R, Staub K, Panczak R, Groth D, Brabec M, von Salisch M, Loh CP, Tassenaar V, Scheffler C, Mumm R, Godina E, Lehmann A, Tutkuvienė J, Gervickaite S, Nierop AF, Holmgren A, Assmann C, van Buuren S, Koziel S, Zadzińska E, Varela-Silva I, Vignerova J, Salama E, El-Shabrawi M, Huiji A, Satake T, Bogin B (2014). Adolescent growth: genes, hormones and the peer group. Proceedings of the 20th Aschauer Soiree, held at Glucksburg castle, Germany, 15th to 17th November 2013. *Pediatr Endocrinol Rev*, 11, 341-353.

- van Dommelen P, Schonbeck Y, van Buuren S, Hirasing RA (2014) Trends in a life threatening condition: morbid obesity in Dutch, Turkish and Moroccan children in the Netherlands. *PLoS ONE*, 9(4): e94299.
- van Dommelen P, de Kroon ML, Cameron N, Schönbeck Y, van Buuren S (2014). Impact of height during childhood on the national prevalence rates of overweight. *PLoS ONE*, 9(1): e85769.
- van Buuren S, Hulzebos EHJ, Valkenet K, Lindeman E, van Meeteren NLU (2014). Reference chart of inspiratory muscle strength: A new tool to monitor the effect of pre-operative training. *Physiotherapy*, 100(2): 128-133.
- Hulzebos EHJ, van Buuren S, Klarenbosch JV, Gigengack-Baars A, Brutel de la Riviere A, Helders PJM, van Meeteren NLU (2014). Validation of a Preoperative Risk Model for Pneumonia in Patients undergoing CABG Surgery. *Journal of Novel Physiotherapies*, 4:4, 221.
- Dusseldorp E, van Genugten L, van Buuren S, Verheijden MW, van Empelen P (2014). Combinations of techniques that effectively change health behavior: evidence from Meta-CART analysis. *Health Psychol*, 33(12):1530-40. doi: 10.1037/hea0000018.
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- Schönbeck Y, Talma H, van Dommelen P, Bakker B, Buitendijk SE, Hirasing RA, van Buuren S (2013). The world's tallest nation has stopped growing taller: the height of Dutch children from 1955 to 2009. *Pediatric Research*, 73(3), 371-377.
- Talma H, Schönbeck Y, van Dommelen P, Bakker B, van Buuren S, HiraSing RA (2013). Trends in Menarcheal Age between 1955 and 2009 in the Netherlands. *PloS ONE* 8 (4), e60056.
- de Wilde JA, van Buuren S, Middelkoop BJC (2013) Trends in birth weight and the prevalence of low birth weight and small-for-gestational-age in Surinamese South Asian babies since 1974: cross-sectional study of three birth cohorts. *BMC Public Health*, 13, 931.
- de Wilde JA, Zandbergen-Harlaar S, van Buuren S, Middelkoop BJC (2013). Trends in body mass index distribution and prevalence of thinness, overweight and obesity in two cohorts of Surinamese South Asian children in The Netherlands. *Archives of Disease in Childhood*, 98(4):280-285.
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Koopmans L, Bernaards C, Hildebrandt V, van Buuren S, van der Beek AJ, de Vet HCW (2013). Development of an individual work performance questionnaire. *International Journal of Productivity and Performance Management*, 62(1), 6-28.

Bocca-Tjeertes IFA, van Buuren S, Bos AF, Kerstens JM, ten Vergert EM & Reijneveld SA (2012). Growth of preterm and fullterm children aged 0-4 years: Integrating median growth and variability in growth charts. *Journal of Pediatrics*, 161(3), 460-465.

van Dommelen P, Schonbeck Y & van Buuren S (2012). A simple calculation of the target height. *Archives of Disease in Childhood*, 97(2), 182.

Hopman-Rock M, Dusseldorp E, Chorus AMJ, Jacobusse GW, Rutten A & van Buuren S (2012). Response Conversion for improving comparability of international physical activity data. *Journal of Physical Activity & Health*, 9, 29-38.

Gameren-Oosterom HBM, van Dommelen P, Oudesluijs-Murphy AM, Buitendijk SE, van Buuren S & van Wouwe JP (2012). Healthy growth in children with Down syndrome. *PLoS ONE*, 7(2), e31079.

Milani S, Buckler JMH, Kelnar CJH, Benso L, Gilli G, Nicoletti I, Faglia G, Radetti G, Bona G, Schonbeck Y, van Buuren S, Hermanussen M, Grugni G, Marazzi N, Juliusson PB, Roelants M, Hoppenbrouwers K, Hauspie R, Bjercknes R & Sartorio A (2012) The use of local reference growth charts for clinical use or a universal standard: a balanced appraisal. *Journal of Endocrinological Investigation*, 35, 224-226.

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Gubbels JS, Thijs C, Stafleu A, van Buuren S & Kremers SP (2011). Association of breastfeeding and feeding on demand with child weight status up to 4 years. *International Journal of Pediatric Obesity*, 6(2-2), e515-22.

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3.8 Invited presentations

- 2015 *Personalized prediction from cohort data*. Oct 5, Zeist.
- 2015 *Multiple imputation of incomplete multivariate data: a bird's eye view*. Oct 15, Meeting of the Dutch Chemometric Society, Wageningen.
- 2015 *Curve matching: A new approach to personalized medicine*. Oct 8, 2nd Transatlantic Conference on Personalized Medicine, Rotterdam.
- 2015 *Methodological Developments in Growth Modeling*. August 13, Joint Statistical Meeting 2015, Seattle.
- 2015 *Relation between growth and development during the first two years - D-score in SMOCC*. Bill & Melinda Gates Foundation. Seattle, June 26, 2015.
- 2015 *Handling Missing Data in HBGDki*. Bill & Melinda Gates Foundation. June 25, 2015, Seattle.
- 2015 *Fully Conditional Specification: Past, present and beyond*. June 18, Rennes. [keynote]

- 2015 *Personalized prediction of growth and development by curve matching*. May 9, ESPGHAN 2015, Amsterdam.
- 2015 *Multiple imputation to preserve item-to-item correlations*. Research seminar Missing Data Analysis. VU, Amsterdam. Jan 6, 2015.
- 2014 *Observations on the case data*. Healthy Birth, Growth, and Development integration workgroup, Bill & Melinda Gates Foundation, Seattle, Oct 2014.
- 2014 *Predicting Individual Growth through Curve Matching*. XIII. International Congress of Human Growth and Clinical Auxology. Maribor, Sept. 2014.
- 2014 *THINK GOLD*. Bill & Melinda Gates Foundation, Washington, July 2014.
- 2014 *Multiple imputation of potential outcomes*. Joint Statistical Meeting 2014, Boston.
- 2014 *D-score: A scale to measure development of children aged 0-2 years*. Global Child Development Group, Kingston, Jamaica, April 14, 2014.
- 2014 *TNO Groeivoorspeller in de praktijk*. Centrum Jeugd en Gezin, Rijnmond, Rotterdam, Feb 27, 2014.
- 2014 *Causal inference from observational data through multiple imputation*. LUMC, Dept. of Medical Statistics, Feb 24, 2014.
- 2013 *Predicting individual growth curves through matching*. Auxological society meeting, Nov. 16, Glucksburg.
- 2013 *TNO Groeivoorspeller in de praktijk*. Sept 5, Breukelen.
- 2013 *TNO Groeivoorspeller in de praktijk*. Sept 12, Oegstgeest.
- 2013 *Flexible multiple imputation*. Conference on Applications of Missing-Data Procedures. June 19-20, Bamberg.
- 2013 *Growth charts for preterms*. Karolinska Institutet, Stockholm.
- 2013 *Groeierven, what's new?* Refereeravond kindergeneeskunde & jeugdgezondheidszorg. June 10, WKZ, Utrecht.
- 2013 *Multiple imputation in child health: Some fields for exploration*. UCL Institute of Child Health, June 5, London.
- 2013 *Some of our experiences using FCS for multiple imputation of multilevel data*. Meeting on multi-level MI, LSHTM. June 4, Londen.
- 2013 *The battle of the multi's: Can we apply multiple imputation to multilevel data?* Keynote address. 9th International Multilevel Conference, March 27-28, Utrecht.
- 2012 *PubertyPlot: A new way to chart Tanner stages*. Qualitätssicherung in endokrinologischer Diagnostik und Therapie Ein Workshop in Zusammenarbeit mit der DGE und DGKL, Sekt. Endokrinologische Laboratoriumsdiagnostik 1./2. Juni 2012 in Schloß Hohenkammer.
- 2012 *Flexible Imputation with MICE*. 2012 ENAR Spring Meeting April 1-4, 2012. Hyatt Regency Washington on Capitol Hill Washington, April 4, 2012.
- 2012 *Principles of Prediction Models*. Workshop on the Pfizer International Growth Database (KIGS), Nice, Feb 23-25 2012. Feb 23.
- 2012 *Serial height-SDS versus growth velocity as screening tool*. Berating Wachstumshormonsdiagnostik. Frankfurt, Feb 2012.
- 2012 *Can we put the means to an end?* MRC Clinical Trials Unit, London, Sept 26, 2012.
- 2012 *Health profiles of European elderly*. 2nd GOAL workshop. Wien, Feb 27 2012.
- 2012 *Groeiendiagrammen*. Achtergronden en Techniek. Nederlandse Vereniging van Kindergeneeskunde (NVK), Nov 1, Veldhoven.
- 2012 *Growth charts for preterm infants. Why and how?* 19th Aschauer Soiree. Nov 17, 2012.
- 2012 *PubertyPlot: A new way to chart Tanner stages*, Hohenzoller, June 2012
- 2011 *Growth Charts Preterms*, Dutch Growth Hormone group, 9 Dec

- 2011, Utrecht
- 2011 *Growth Charts Preterms*, Driebergen 7 Oct 2011
- 2011 *Evidence-based screening for short stature*. ESPE 50th Annual Meeting, Glasgow 2011
- 2011 *Flexible Imputation of Missing Data*, Bamberg, June 1, 2011
- 2011 International workshop 'Evidence-based growth', TNO Leiden, May 18 2011
- 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, Nuremburg.
- 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, London.

3.9 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.

3.10 Organization and committees

- 2014 Session chair: Modelling child growth & development. Bill & Melinda Gates Foundation, Seattle.
- 2014 – present Global Child Development Group. Member.
- 2013 – present Advisory committee “Jeugd in Beeld”. Member. NCJ, Utrecht.
- 2013 – present ILSI Expert Group Early Growth Velocity

2013	Organiser. Mini-conference: Recent advances in multiple imputation with emphasis on dealing with deviations from MAR or exchangeability. Utrecht, May 16. (with JJ Hox, S Jolani, DB Rubin)
2010 – 2012	Key Informant. Member of Technical Expert Panel. <i>Harmonization of Cognitive Measures in Individual Participant Data and Aggregate Data Meta-Analysis</i> . Prepared for: Agency for Healthcare Research and Quality U.S., Rockville, MD 20850. Contract No. 290-2007-10060-I. Prepared by: McMaster University Evidence-based Practice Center Hamilton, Ontario, Canada. http://www.ncbi.nlm.nih.gov/books/NBK132553/pdf/TOC.pdf
2009 – 2011	Member, Partnerschap Overgewicht Nederlands (PON)
2009 – 2011	Member steering committee, Nederland De Maat Genomen, RIVM
2010	Organiser, Presentation new growth charts, De Doelen, Rotterdam, June 10, 2010, 450 visitors.
2007	Temporary advisor, WHO. 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	Temporary advisor, WHO. Workshop on implementation of the WHO child growth standards, Brindisi, 28-30 March 2007
2006 – 2007	Temporary advisor, WHO. 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”, TNO
2002	Organiser, MICE workshop, TNO Leiden
2001 – 2003	Temporary advisor, WHO. 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

3.11 Editorial activities

2001 – 2002	Editor, special issue on imputation, <i>Statistica Neerlandica</i> (with R. Eisinga)
2001 – 2007	Associate Editor, <i>Statistica Neerlandica</i>
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*, *Journal of the American Statistical Association*, and others.

Reviews for funding agencies: ZonMw, NWO, Wellcome Trust, MRC.

3.12 Professional memberships

2014 – present	International Association for the Study of Human Growth and Clinical Auxology
2012 – present	Auxological Society (Deutsche Gesellschaft für Auxologie)
2005 – present	Fellow, Royal Statistical Society
2005 – present	Interuniversity Graduate School of Psychometrics and Sociometrics (IOPS)
2000 – present	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 – 2009	Psychometric Society

3.13 Software

2013	TNO Groeivoorspeller	http://vps.stefvanbuuren.nl:3838/frisodemo/
2013	3R sample size	http://vps.stefvanbuuren.nl:3838/3R/
2013	sensor	Analysis of Personal Sensor data, R package
2012	AGD	Analysis of Growth Data, R package on CRAN
2011	iGrow	http://www.tno.nl/igrow . Android, iPhone
2010	mice 2.0	Multivariate imputation by Chained Equations. R package on CRAN
2009	pubertyplot	http://vps.stefvanbuuren.nl/puberty/ . R
2005	Groecalculator	http://groeicweb.pgdata.nl/groeicweb_ouder/calculator.asp , .asp
2002	MI-EVAL	Multiple imputation evaluation. SAS-IML.
2001	GO	Microsimulation Hypertension Screening. S-Plus.
2000	WP	Worm plot. S-Plus, R.
1999	MICE	Multivariate imputation by Chained Equations. S-Plus.
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	Mac version 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.

3.14 Patent application

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

4.1 Courses taught at university

2007 - 2013	<i>Incomplete data</i> , Research master M&S, University of Utrecht (yearly)
1991	<i>Survey research</i> , University of Leiden
1991	<i>Introduction to psychometric methods</i> , University of Leiden
1990	<i>MANOVA</i> , University of Utrecht
1989	<i>Non-linear multivariate analysis</i> , University of Utrecht
1988	<i>Loglinear analysis</i> , University of Utrecht
1987	<i>Data-analytic models</i> , University of Utrecht

4.2 Other educational activities

2015	<i>Applied Multiple Imputation in R</i> . Pre-conference course. International Society of Clinical Biostatisticians 2015, Aug 22, Utrecht (with G. Vink).
2015	<i>Handling Missing Data in R with MICE</i> . Pre-conference course. June 17, 2015, Rennes (with G. Vink)
2015	<i>Principles of Multiple Imputation in clinical trials</i> . Boerhaave cursus, April 14, Leiden. (with G. Vink)
2015	<i>Handling missing data using multiple imputation</i> . University of Utrecht. March 4-6, 2014. (with G. Vink and S. Jolani)
2014	<i>Applied Multiple Imputation in SPSS and R</i> . University of Utrecht. March 5-7, 2014. (with G. Vink and S. Jolani)
2013	<i>Applied Multiple Imputation in R</i> . CE Course, Joint Statistical Meeting 2013, Montreal, Aug 3-8, 2013 (with G. Vink)
2013	<i>Advanced Multiple Imputation</i> . Course. May 15, Utrecht (with S. Jolani, D.B. Rubin)
2013	<i>Multiple data imputation for multilevel data using MICE</i> . Pre-conference course. March 26, Utrecht (with G. Vink)
2012	<i>Applied Multiple Imputation in R</i> . Pre-conference course. Royal Statistical Society 2012 Conference, Telford, 3 September 2012.
2012	2-day NIHES course: <i>Analysis of Growth Data</i> (EP18), Rotterdam (with P. Eilers)
2011	<i>Multiple Imputation in Practice: Your second course</i> , Utrecht, 31 okt 2011 (with Craig Enders)
2010	<i>Handling missing data in R with MICE</i> , Tutorial, R User Conference 2010, Gaithersburg (with C.G.M. Groothuis-Oudshoorn)
2010	2-day NIHES course: <i>Analysis of Growth Data</i> (EP18), Rotterdam (with P. Eilers)
2009	<i>1-day crash course on multiple imputation</i> , University of Leiden
2008	<i>1-day crash course on multiple imputation</i> , University of Leiden
2007	<i>1-day crash course on multiple imputation</i> , University of Leiden
2007	<i>3-day workshop on sensitivity analysis in imputation</i> , INSERM 708, Paris (with M. Chavance)
2006	<i>1-day crash course on multiple imputation</i> , University of Leiden

4.3 Completed PhD's

2008 – 2015	Y Schönbeck (2015). <i>Changing curves. Monitoring growth of children and adolescents in The Netherlands</i> . University of Utrecht. Nov 13, 2015. Promotores: S van Buuren, RA Hirasing, Co-promotor: P van Dommelen.
2009 – 2015	G Vink (2015). <i>Restrictive Imputation of Incomplete Survey Data</i> . March 13, 2015. University of Utrecht. Promotores: S. van Buuren, Co-promotor: J Pannekoek.
2008 – 2015	JA de Wilde (2015). <i>Does one size fit all? The case for ethnic specific standards to assess growth in South Asian children</i> . 18 Feb 2015, University of Leiden. Promotores: BJC Middelkoop, S van Buuren
2010 – 2012	S Jolani (2012). <i>Dual Imputation Strategies for Analyzing Incomplete Data</i> . University of Utrecht, Dec 7 2012, Utrecht: University of Utrecht (104 pp.), Promotores: S. van Buuren. Co-promotores: L.E. Frank.
2008 – 2012	R de Jong (2012). <i>Robust Multiple Imputation</i> . University of Hamburg, Nov 21, 2012. Hamburg: University of Hamburg. Promotores: M. Spiess, S. van Buuren.
2007 – 2011	M. de Kroon (2011). <i>The Terneuzen Birth Cohort. Detection and Prevention of Overweight and Cardiometabolic Risk from Infancy Onward</i> . VUmc. Sept 21, 2011. Promotores: RA Hirasing, S van Buuren, Co-promotores: CM Renders, JP van Wouwe.
2005 – 2008	P van Dommelen (2008) <i>Evidence-based referral criteria in growth monitoring</i> . TNO, Univ of Utrecht, Dec. 2008. Promotor: S van Buuren.
1994 – 1999	JPL Brand, <i>Development, implementation and evaluation of multiple imputation strategies for the Statistical Analysis of Incomplete Data Sets</i> . Erasmus Rotterdam, May 1999. Promotor E.S. Gelsema, Co-promotor S. van Buuren.

4.4 Supervision for master's thesis (scriptie)

2015	WAC Smink, University of Utrecht (with S Jolani, G Vink)
2015	E Dost, University of Utrecht (BA thesis)
2015	K Duisters, University of Leiden (with E Dusseldorp, A van de Vaart)
2014	B Kuiper, University of Utrecht (with G Vink)
2012	L Doove, University of Utrecht (with E Dusseldorp)
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
1986

GB Dijksterhuis, University of Utrecht
PE Roos, University of Utrecht