

Maarten Leendert Buis

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Education

Main

July 2010 Doctorate degree (PhD) in Social Sciences at the VU University Amsterdam (the Netherlands), *cum laude*¹. Supervisors: Harry B.G. Ganzeboom and Adriaan W. Hoogendoorn. Thesis: 'Inequality of Educational Outcome and Inequality of Educational Opportunity in the Netherlands during the 20th Century'.

1997 – 2003 Doctoraal sociale en institutionele economie, Universiteit Utrecht (the Netherlands) [M.A. social and institutional economics]. Title thesis: "International Trade and the Level of Regulation".

1995 – 1997 Propedeuse sociale geografie, [first year exam human geography] Universiteit Utrecht

1989 – 1995 VWO, [pre-university education] Jac. P. Thijsse College Castricum (the Netherlands)

Appointments

Main

2020 – lecturer of statistics for the social sciences at the University of Konstanz, Germany

2014 – 2020 junior lecturer of statistics for the social sciences at the University of Konstanz, Germany

2012 – 2014 Research Fellow, Wissenschaftszentrum Berlin für Sozialforschung (WZB), Germany

2009 – 2012 Wissenschaftlicher Mitarbeiter, Institut für Soziologie, Eberhard Karls Universität Tübingen, Germany

¹The Dutch system only knows two grades for a PhD thesis: pass or *cum laude*, and the latter is only rarely given (< 5%).

2003 – 2008 Promovendus, Department of Social Research Methodology, VU University Amsterdam, the Netherlands

Visiting and other appointments

February 2012, November 2011, and September 2010 Guest-researcher at SOFI in Stockholm, Sweden. Host: Dr. Juho Härkönen

February 2010 Consultant on strategies for dealing with missing data, at CIFOR in Bogor, Indonesia

February – March 2006 Guest-researcher at UCLA, Department of Sociology in Los Angeles, USA. Host: Prof. Dr. Donald J. Treiman

2002 Research Assistant. [Dr. J.B.D. Simonis] Department of Social and Institutional Economics, Utrecht University, the Netherlands

Publications

Books

2011 Buis, Maarten L. (Ed.) (2011) *Unobserved Heterogeneity in Mare Models*, A special issue of Research in Social Stratification and Mobility. Amsterdam: Elsevier.

2010 Buis, Maarten L. (2010) *Inequality of Education Outcome and Inequality of Educational Opportunity in the Netherlands in the 20th century*, Amsterdam: VU University Amsterdam.

Peer reviewed articles

2020 Buis, Maarten L. (2020) "Analysis of proportions". In Atkinson, Paul; Delamont, Sara; Cernat, Alexandru; Sakshaug, Joseph W. and Williams, Richard A. (eds.), *SAGE Research Methods Foundation*. Thousand Oaks: Sage.

2017 Buis, Maarten L. (2017) "Not all transitions are equal: The relationship between effects on passing steps in a sequential process and effects on the final outcome", *Sociological Methods & Research*, 46(3), pp. 649–680.

2015 Meraviglia, Cinzia and Buis, Maarten L. (2015) "Class, status, and education: The influence of parental resources on IEO in Europe, 1893–1987" *International Review of Social Research*, 5(1), pp. 35–60.

2014 Babigumira, Ronnie, Angelsen, Arild, Buis, Maarten L., Bauch, Simone, Sunderland, Terry, and Wunder, Sven. (2014) "Forest Clearing in Rural Livelihoods: Household-Level Global-Comparative Evidence" *World Development*, 64(supplement 1), pp. S67–S79.

- 2013 Buis, Maarten L. (2013) "The composition of family background: The influence of the economic and cultural resources of both parents on educational attainment of their offspring in the Netherlands between 1939 and 1991." *European Sociological Review*, 29(3), pp. 593–602.
- 2012 Buis, Maarten L., Mönkerdiek, Bastian and Hillmert, Steffen. (2012) "Educational expansion and the role of demographic factors: The case of West Germany." *Population Review*, 51(2), pp. 1–15.
- 2011 Buis, Maarten L. (2011) "The consequences of unobserved heterogeneity in a sequential logit model." *Research in Social Stratification and Mobility*, 29(3), pp. 247–262.
- 2010 Buis, Maarten L. (2010) "Direct and indirect effects in a logit model." *The Stata Journal*, 10(1), pp. 11–29.
- 2007 Buis, Maarten L. (2007), "Predict and adjust with logistic regression." *The Stata Journal*, 7(2), pp. 221–226.

Professional publications

- 2020 Buis, Maarten L. (2020) "Stata tip 135: Leaps and bounds", *The Stata Journal*, 20(1), 244-249.
- 2015 Buis, Maarten L. (2015) "Stata tip 124: Passing temporary variables to subprograms", *The Stata Journal*, 15(2), 597–598.
- Buis, Maarten L. (2015) "Langetermijntrends in onderwijsuitkomsten in Nederland" in: Herman van de Werfhorst, *Een kloof van alle tijden. Verschillen tussen lager en hoger opgeleiden in werk, cultuur en politiek*. Amsterdam: Amsterdam University Press, pp. 219–240.
- 2014 Buis, Maarten L. (2014) "Stata tip 120: Certifying sub-routines." *The Stata Journal*, 14(2), pp. 449–450.
- Buis, Maarten L. (2014) "Stata tip 116: Where did my p-values go? (part 3)" *The Stata Journal*, 14(1), pp. 218–220.
- 2012 Buis, Maarten L. (2012) "Stata tip 112: Where did my p-values go? (part 2)" *The Stata Journal*, 12(4), pp. 759–760.
- Buis, Maarten L. (2012) "Stata tip 108: On adding and constraining." *The Stata Journal*, 12(2), pp. 342–344.
- Buis, Maarten L. (2012) "Stata tip 107: The baseline is now reported." *The Stata Journal*, 12(1), pp. 165–166.
- Buis, Maarten L. (2012) "Stata tip 106: With or without reference." *The Stata Journal*, 12(1), pp. 162–164.

- 2011 Buis, Maarten L. (2011) "Stata tip 97: Getting at ρ s and σ s." *The Stata Journal*, 11(2), pp. 315–317.
- 2010 Buis, Maarten L. (2010) "Stata tip 87: Interpretation of interactions in non-linear models." *The Stata Journal*, 10(2), pp. 305–308.
- 2009 Buis, Maarten L. and Martin Weiss (2009), "Stata tip 81: A table of graphs." *The Stata Journal*, 9(4), pp. 643–647.
- 2007 Buis, Maarten L. (2007), "Stata tip 54: Where did my p-values go?" *The Stata Journal*, 7(4), pp. 584–586.
- Buis, Maarten L. (2007), "Stata tip 48: Discrete uses for uniform()." *The Stata Journal*, 7(3), pp. 434–435.
- 2003 Buis, Maarten L. (2003), "Internationale handel en eigen regulering." [International Trade and Regulation.] *ESB*, 22 Augustus 2003, pp. 388–391

Presentations

Invited lectures

- 2015 "Log-linear models for cross-tabulations using Stata" presented at the 19th UK Stata Users Meeting on September 10, 2015 in London.
- 2012 "The composition of family background: The influence of the economic and cultural resources of both parents on the offspring's educational attainment" presented at the University of Bern on April 24, 2012 in Bern.
- "The composition of family background: The influence of the economic and cultural resources of both parents on the offspring's educational attainment" presented at the University of Stockholm on March 1, 2012 in Stockholm.
- 2011 "Simulation as a way to combine information from multiple sources" presented at the University of Konstanz on January 12, 2011 in Konstanz.
- 2010 "Extracting effects from non-linear models" presented at the 7th Italian Stata Users Group Meeting on November 11, 2010 in Bologna.
- "Consequences of educational expansion in Germany on educational attainment in the next generation" presented at the SWS seminar on August 31, 2010 at SOFI, Stockholm.
- "Strategies for dealing with missing data" presented at CIFOR on February 25, 2010 in Bogor, Indonesia.
- 2009 "Linking process to outcome: Inequality of educational opportunities and inequality of educational outcomes" presented at the University of Milan on May 11, 2009 in Milan.

- 2008 "Understanding statistics using simulate" presented at the 2008 Summer North American Stata Users Group meeting on July 24, 2008 in Chicago.
- "Inequality of educational opportunities and inequality of educational outcomes" presented at StataCorp on July 28, 2008 in College Station.
- 2007 "Linking process to outcome: Inequality of educational opportunities and inequality of educational outcomes." presented at the Juan March Institute on November 23, 2007 in Madrid.
- 2006 "Not all transitions are equal: The effect of differences between men and women in educational expansion on educational inequality in the Netherlands between 1912 and 1988." presented at the University of Warsaw on December 13, 2006 in Warsaw.
- 2005 "Nonlinear Trend in Inequality of Educational Opportunity in the Netherlands 1930-1989" presented at the University of Mannheim on November 15, 2005 in Mannheim.

Conferences

- 2020 "Agent based models in Mata: Modelling aggregate processes, like the spread of a disease" presented at the 2020 UK Stata Users' Meeting on September 11, 2020.
- 2019 "Making interactive presentations in Stata" presented at the 2019 UK Stata Users' meeting on September 5, 2019 in London.
- "Agents Based Models in Mata" presented at the 2019 German Stata Users' meeting on May 24, 2019 in Munich.
- 2018 "Making interactive presentations in Stata" presented at the 2018 German Stata Users' meeting on June 22, 2018 in Konstanz.
- 2017 "Educational trajectories and migration background" (With Verena Seibel) presented at the spring meeting of the RC28 on March 31, 2017 in Cologne.
- 2016 "Schools, diplomas, and cultural consumption" (with Ondřej Malina) presented at the summer meeting of the RC28 on August 29, 2016 in Bern.
- "Logistic regression: When can we do what we think we can do?" presented at the summer meeting of the RC28 on August 29, 2016 in Bern.
- 2015 "Logistic regression: Why we often can do what we think we can do" presented at the 19th UK Stata Users Meeting on September 10, 2015 in London.
- "Track mobility: loophole or second chance", presented at the spring meeting of the RC28 on May 28, 2015 in Tilburg.
- 2014 "Mother's and father's class, status and education: The influence of parental resources on IEO in Europe, 1900-1990" (with Cinzia Meraviglia), presented at the spring meeting of the RC28 on May 8, 2014 in Budapest.

- 2013 “Using simulation to inspect the performance of a test in particular tests of the parallel regressions assumption in ordered logit models” (with Richard Williams), presented at the 11th German Stata Users’ meeting on June 6, 2013 in Potsdam.
- 2012 “Comparing observed and theoretical distributions”, presented at the 10th German Stata Users’ meeting on June 1, 2012 in Berlin.
- “Age of the mother and children’s educational outcomes” (with Juho Härkönen), presented at the Spring Meeting of the RC28 on May 13, 2012 in Hong Kong.
- 2011 “Comparing observed and theoretical distributions”, presented at the 4th Nordic and Baltic Stata Users’ meeting on November 11, 2011 in Stockholm.
- “Does the waning effect of parental SES in educational transition models result from increasing measurement error?” (with Martin Kreidl), presented at the Summer Meeting of the RC28 on August 10, 2011 in Iowa City.
- “The Social Composition of Educational Groups: Long-Term Trends and the Role of Demographic Factors” (with Bastian Moenkerdiek and Steffen Hillmert), presented at the Summer Meeting of the RC28 on August 10, 2011 in Iowa City.
- “Lange termijn trends in onderwijsmobiliteit”, presented at the AMCIS Jaarconferentie: “Onderwijs en stratificatie: Effecten op het gebied van Ongelijkheid, Arbeidsmarkt en Participatie in de afgelopen decennia” on January 20, 2011 in Amsterdam.
- 2010 “Consequences of educational expansion in Germany on educational attainment in the next generation” (with Bastian Moenkerdiek and Steffen Hillmert), presented at the ECSR conference Analysing Education, Family, Work and Welfare in Modern Societies on October 1, 2010 in Bamberg.
- “Analyzing proportions”, presented at the 8th German Stata Users’ Group meeting on June 25, 2010 in Berlin.
- “The consequences of unobserved heterogeneity in a sequential logit model”, presented at the Workshop on unobserved heterogeneity in Mare models, held at the Spring Meeting of the RC28 on May 11, 2010 in Haifa.
- 2009 “Capturing the impact of demographic processes on social stratification in education in Germany”, presented at the ECSR conference Changing societies in the context of European Union enlargement on December 12, 2009 in Paris.
- “Three models for combining information from causal indicators, The sheafcoef and propcnsreg package”, presented at the 15th UK Stata Users’ Group meeting on September 10, 2009 in London.
- “The consequences of unobserved heterogeneity in a sequential logit model”, presented at the Summer Meeting of the RC28 on August 4, 2009 at Yale University.
- “Not all transition are equally unequal. A comparison between Italy and the Netherlands” (with Hans Schadee and Gabriele Ballarino), presented at International Research Workshop “Inequality of Educational Opportunity in Italy” on June 19, 2009 in Milan.

- "Using and interpreting restricted cubic splines", presented at the 7th German Stata Users' meeting on June 26, 2009 in Bonn.
- 2008 "Family background and educational attainment: Are there many inequalities of educational outcome or just one?", presented at Summer Meeting of the RC28 on August 7, 2008 at Stanford University.
- "Direct and indirect effects in a logit model", presented at the 6th German Stata Users Group meeting on June 27, 2008 in Berlin.
- "Estimating primary and secondary effects on entering college", poster presented at the Spring Meeting of the RC28 on May 16, 2008 in Florence.
- "Direct and indirect effects in a logit model", presented at the 1st Polish Stata Users Group meeting on March 29, 2008 in Warsaw
- 2007 "Usefulness and estimation of proportionality constraints: The propcnsreg package", presented at the 13th UK Stata Users Group Meeting on September 10, 2007 in London.
- "Linking process to outcome: The seqlogit package", presented at the 2nd Nordic and Baltic Stata Users Group meeting on September 7, 2007 in Stockholm.
- "Linking process to outcome: Inequality of educational opportunities and inequality of educational outcomes", presented at the ECSR and TransEurope conference on globalization, social inequality and the life course on September 1, 2007 in Groningen.
- "The influence of mother's and father's education on educational attainment", presented at the Summer Meeting of the RC28 on August 15, 2007 in Montreal.
- "Not all transitions are equal", presented at the Spring Meeting of the RC28 on May 26, 2007 in Brno.
- "Assessing the reasonableness of an imputation model", presented at the 5th German Stata Users Group Meeting on April 2, 2007 in Essen.
- "Not all transitions are equal", presented at the Spring Meeting of the Methodology Section of the American Sociology Association on March 3, 2007 at Yale University.
- 2006 "Proportions as dependent variable", presented at the 12th UK Stata Users Group Meeting on September 12, 2006 in London.
- "Analyzing Inequality of Educational Opportunities using Stacked Surveys with Missing Data", presented at the ECSR conference European Comparative Studies: Quality and Inequality in Education on September 2, 2006 in Prague.
- "Nonstandard educational trajectories in the Netherlands", presented at the dag van de Sociologie on June 8, 2006 in Tilburg.
- "Deceleration of the Trend in Inequality of Educational Opportunity in the Netherlands", presented at the Spring Meeting of the RC28 on May 13, 2006 in Nijmegen.

2005 "Trends in Inequality of Educational Opportunity in the Netherlands 1900-1980: The Effect of Missing Data", presented at the Spring Meeting of the RC28 on May 6-8, 2005 in Oslo.

Software

2021 Buis, Maarten L. (2021) "mkproject: Stata module to create a project folder with some boilerplate code and research log"
<https://econpapers.repec.org/software/bocbocode/s458906.html>.

2020 Buis, Maarten L. (2020) "abm_pop: Mata class for storing and retrieving properties of agent that can change over time in an Agent Based Model"
https://github.com/maartenteaches/abm_pop.

Buis, Maarten L. (2020) "abm_nw: Mata class for managing networks for Agent Based Models"
https://github.com/maartenteaches/abm_nw.

2019 Buis, Maarten L. (2019) "twby: Stata module to create a cross-tabulation of graphs"
<https://econpapers.repec.org/software/bocbocode/s458686.htm>.

Buis, Maarten L. (2019) "abm_grid: A Mata class for managing a square grid for Agent Based Models"
https://github.com/maartenteaches/abm_grid.

2018 Buis, Maarten L. (2018) "lookfor2: Stata module to search for string in variable names, variable labels, value labels, and notes"
<http://econpapers.repec.org/software/bocbocode/s458537.html>.

Buis, Maarten L. (2018) "htmlcb: Stata module to write a codebook as an html file"
<http://econpapers.repec.org/software/bocbocode/s458538.html>.

2017 Buis, Maarten L. (2017) "smclpres: Stata module to create a SMCL presentation from a do file."
<http://econpapers.repec.org/software/bocbocode/s458367.html>.

2016 Buis, Maarten L. (2016) "stdtable: Stata module to standardize cross-tabulations to pre-specified row and column totals."
<http://econpapers.repec.org/software/bocbocode/s458184.htm>.

2015 Buis, Maarten L. (2015) "lvr2plot2: Stata module to produce a leverage versus squared residual plot with Cook's D".
<http://econpapers.repec.org/software/bocbocode/s458112.htm>.

2013 Buis, Maarten L. (2013) "oparallel: Stata module providing post-estimation command for testing the parallel regression assumption."
<http://econpapers.repec.org/software/bocbocode/s457720.html>.

- Buis, Maarten L. and Nicholas J. Cox (2013) “qenv: Stata module to generate quantile envelopes for quantile-quantile plots.”
<http://econpapers.repec.org/software/bocbocode/s457430.htm>.
- Maarten L. Buis (2013) “asl_norm: Stata module computing bootstrap Gaussianity tests”.
<http://econpapers.repec.org/software/bocbocode/s457648.html>.
- 2012 Buis, Maarten L. (2012) “simpplot: Stata module creating a plot describing p-values from a simulation by comparing nominal significance levels with the coverages”.
<http://econpapers.repec.org/software/bocbocode/s457467.htm>.
- 2011 Buis, Maarten L. (2011) “margdistfit: Post-estimation command that compares the observed and theoretical marginal distributions”.
<http://econpapers.repec.org/software/bocbocode/s457364.htm>.
- 2010 Buis, Maarten L. (2010) “scenreg: Stata module for estimating effects in models for binary variables given a scenario concerning unobserved variables”.
<http://econpapers.repec.org/software/bocbocode/s457199.htm>.
- Buis, Maarten L. (2010) “zoib : Stata module to fit a zero-one inflated beta distribution by maximum likelihood”.
<http://econpapers.repec.org/software/bocbocode/S457156.htm>.
- 2009 Buis, Maarten L. (2009) “fmlogit: Stata module fitting a fractional multinomial logit model by quasi maximum likelihood”.
<http://econpapers.repec.org/software/bocbocode/s456976.htm>.
- Buis, Maarten L. (2009) “proprcspline: Stata module for restricted cubic spline smoothing of proportions”.
<http://econpapers.repec.org/software/bocbocode/s457062.htm>.
- Buis, Maarten L. (2009) “sheafcoef: Stata module to compute sheaf coefficients”.
<http://econpapers.repec.org/software/bocbocode/s456945.htm>.
- 2008 Buis, Maarten L. (2008) “ftest: Stata module comparing two nested models using an F-test”.
<http://econpapers.repec.org/software/bocbocode/S456944.htm>.
- Buis, Maarten L. (2008) “postrcspline: Stata module containing post-estimation commands for models using a restricted cubic spline”.
<http://econpapers.repec.org/software/bocbocode/S456928.htm>.
- Buis, Maarten L. (2008) “ldecomp: Stata module decomposing the total effects in a logistic regression into direct and indirect effects”.
<http://econpapers.repec.org/software/bocbocode/s456906.htm>.
- Buis, Maarten L. and Stephen P. Jenkins (2008) “fiskfit: Stata module to fit a Fisk distribution by ML to unit record data”.
<http://econpapers.repec.org/software/bocbocode/s456900.htm>.

- 2007 Buis, Maarten L. (2007) “hangroot: Stata module creating a hanging rootogram comparing an empirical distribution to the best fitting theoretical distribution”.
<http://econpapers.repec.org/software/bocbocode/s456886.htm>.
- Buis, Maarten L. (2007) “propcnsreg: Stata module fitting by maximum likelihood a linear regression with a proportionality constraint”.
<http://econpapers.repec.org/software/bocbocode/s456858.htm>.
- Buis, Maarten L. (2007) “seqlogit: Stata module to fit a sequential logit model”
<http://econpapers.repec.org/software/bocbocode/s456843.htm>.
- Buis, Maarten L. (2007) “indeplist: Stata module displaying and returning the names of the independent variables of the active estimation command”.
<http://econpapers.repec.org/software/bocbocode/s456839.htm>.
- 2006 Buis, Maarten L., Nicholas J. Cox, and Stephen P. Jenkins (2006) “dirifit: Stata module fitting a dirichlet distribution, optionally dependent on covariates”.
<http://econpapers.repec.org/software/bocbocode/s456725.htm>.
- Buis, Maarten L. (2006) “pcorrmatrix: Stata module displaying a matrix of partial correlations that are controlled for a fixed set of covariates”.
<http://econpapers.repec.org/software/bocbocode/s456839.htm>.
- 2005 Buis, Maarten L., Nicholas J. Cox, and Stephen P. Jenkins (2005) “betafit: Stata module fitting a two parameter beta distribution, optionally dependent on covariates”.
<http://econpapers.repec.org/software/bocbocode/s435303.htm>.

Professional Activities

Editor

- 2010 – 2011 Guest-editor of *Research in Social Stratification and Mobility*, volume 29, issue 3, a special issue on unobserved heterogeneity in Mare models.
- 2008 – now Associate editor of the *Stata Journal*

Reviewer for:

European Sociological Review, *Sociology of Education*, *Acta Sociologica*, *Research in Social Stratification and Mobility*, *Journal of Research on Adolescence*, *International Migration Review*, *European Journal of Population*, *Stata Journal*, *BMC Medical Research Methodology*, *Economic Modelling*, *Journal of Peace Research*, *Nonprofit and Voluntary Sector Quarterly*, 2011 Spring Conference of the RC28.

Organizer:

- 2018 German Stata Users Meeting on June 22, 2018 in Konstanz
- 2010 Workshop on unobserved heterogeneity in Mare models, held at the Spring Meeting of the RC28 on May 11, 2010 in Haifa

Awards

- 2011 FSW Dissertatieprijs 2010 for the best dissertation defended at the Faculty of Social Sciences of the VU University Amsterdam in 2010
- 2007 Sørensen Award from the Research Committee 28 on Social Stratification and Mobility to attend its conference in Montreal

Teaching experience

Post-graduate:

Workshop Graphics with Stata, Workshop Stata: the second level, The educational transition model: Fundamentals and extensions, Primary and Secondary Effects in Educational Careers

master:

Structural Equation Models, Causal data analysis, Log-linear models, Quantitative data analysis, Missing data, Categorical data analysis, Survival analysis, Graphics in Stata, Interaction effects in linear and non-linear models, Work flow of data analysis

Bachelor

Lecture Statistics, SPSS computer labs, Stata computer labs

Pre-Bachelor

Refresher math course