

CURRICULUM VITAE

Jouni Kuha

Department of Methodology and Department of Statistics
London School of Economics and Political Science
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Education

M.Soc.Sc	Statistics	University of Helsinki	1992
Ph.D.	Social Statistics	University of Southampton	1996

Positions

2013 –	Associate professor of statistics and research methodology, London School of Economics and Political Science (LSE)
2008 – 2013	Senior lecturer in statistics and research methodology, LSE
2001 – 2008	Lecturer in statistics and research methodology, LSE
2000 – 2001	Faculty associate, Population Research Institute, Penn State University
1999 – 2001	Assistant professor of statistics, Penn State University
1998 – 1999	Research Fellow, Nuffield College, University of Oxford
1995 – 1998	Prize Research Fellow, Nuffield College, University of Oxford
1991 – 1992	Assistant, Dept. of Statistics, University of Helsinki
1990	Research Assistant, Institute of Occupational Health, Helsinki

RESEARCH

Research interests

- Problems with measurement error, misclassification and missing data
- Principles of model assessment and model choice, model selection criteria
- Latent variable modelling, especially of cross-national survey data
- Statistics for the social sciences

Research grants

- 2017–20 Methods for the Analysis of Longitudinal Dyadic Data with an Application to Intergenerational Exchanges of Family Support (co-investigator). Economic and Social Research Council (ESRC) and Engineering and Physical Sciences Research Council (EPSRC), £779K.
- 2014–16 Legal norms and crime control: A comparative, cross-national analysis (co-investigator). ESRC, £280K.
- 2013–14 Item Nonresponse and Measurement Error in Cross-National Surveys: Methods of Data Collection and Analysis (principal investigator). National Centre for Research Methods (NCRM) / ESRC, £192K.
- 2012–15 The Role of Education in Intergenerational Social Mobility (co-investigator). ESRC, £520K.
- 2012–15 New European Crimes and Trust-Based Policy (*Fiducia*) (co-investigator). European Union 7th Framework Programme (EU FP7), €2700K.
- 2010–12 Latent Variable Modelling of Categorical Data: Tools of Analysis for Cross-National Surveys (*LCAT*) (principal investigator). ESRC, £265K.
- 2008–11 Scientific Indicators of Confidence in Justice: Tools for Policy Assessment (*EuroJustis*) (co-investigator). EU FP7, €1500K.
- 2008–11 Sensitive Technologies and European Public Ethics (*STEPE*) (co-investigator). EU FP7, €690K.

Peer-reviewed articles

1. Kuha, J., Butt, S., Katsikatsou, M., and Skinner, C. J. (2017). The effect of probing “Don’t Know” responses on measurement quality and nonresponse in surveys. To appear in *Journal of the American Statistical Association*.
2. Bukodi, E., Goldthorpe, J. H., and Kuha, J. (2017). The pattern of social fluidity within the British class structure: A topological model. To appear in *Journal of the Royal Statistical Society, Series A*.
3. Ding, Y. Y., Kuha, J., and Murphy, M. (2017). Multidimensional predictors of physical frailty in older people: Identifying how and for whom they exert their effects. *Biogerontology*, 18, 237–252.
4. Reader, T. W., Lopes, C., Kuha, J., and Mearns, K. (2017). Organizational support for workforce health and employee safety citizenship behaviors: A social exchange relationship. *Human Relations*, 70, 362–385.
5. Kuha, J. and Moustaki, I. (2015). Non-equivalence of measurement in latent variable modeling of multigroup data: A sensitivity analysis. *Psychological Methods*, 20, 523–536.
6. Hafez, M. S., Moustaki, I., and Kuha, J. (2015). Analysis of multivariate longitudinal data subject to nonrandom dropout. *Structural Equation Modeling*, 22, 193–201.
7. Bukodi, E., Goldthorpe, J. H., Waller, L., and Kuha, J. (2015). The mobility problem in Britain: New findings from the analysis of birth cohort data. *British Journal of Sociology*, 66, 93–117.

8. Jackson, J. and Kuha, J. (2014). Worry about crime in a cross-national context: A model-supported method of measurement using the European Social Survey Data. *Survey Research Methods*, 8, 109–126.
9. Sturgis, P., Brunton-Smith, I., Jackson, J., and Kuha, J. (2014). Ethnic diversity, segregation, and the social cohesion of neighbourhoods in London. *Ethnic and Racial Studies*, 37, 1286–1309.
10. Kuha, J. and Jackson, J. (2014). The item count method for sensitive survey questions: Modelling criminal behavior. *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 63, 321–341.
11. Skrondal, A. and Kuha, J. (2012). Improved regression calibration. *Psychometrika*, 77, 649–669.
12. Jackson, J., Bradford, B., Hough, M., Kuha, J., Stares, S., Widdop, S., Fitzgerald, R., Yordanova, M., and Galev, T. (2011). Developing European indicators of trust in justice. *European Journal of Criminology*, 8, 267–285.
13. Curtice, J., Fisher, S. D., and Kuha, J. (2011). Confounding the commentators: How the 2010 exit poll got it (more or less) right. *Journal of Elections, Public Opinion & Parties*, 21, 211–235.
14. Kuha, J. and Firth, D. (2011). On the index of dissimilarity for lack of fit in loglinear and log-multiplicative models. *Computational Statistics and Data Analysis*, 55, 375–388.
15. Kuha, J. and Goldthorpe, J. H. (2010). Path analysis for discrete variables: The role of education in social mobility. *Journal of the Royal Statistical Society, Series A*, 173, 351–369.
16. Akritas, M. G., E. S. Antoniou and J. Kuha (2006). Nonparametric Analysis of Factorial Designs with Random Missingness: Bivariate Data. *Journal of the American Statistical Association*, 101, 1513–1526.
17. Kuha, J. (2004). AIC and BIC: Comparisons of Assumptions and Performance. *Sociological Methods & Research*, 33, 188–229. (See also publisher’s errata to the paper in the print edition of the journal, *SMR*, 33, 417 (2005).)
18. Kuha, J. and J. Temple (2003). Covariate Measurement Error in Quadratic Regression. *International Statistical Review*, 71, 131–150.
19. Akritas, M. G., J. Kuha, and D. W. Osgood (2002). A Nonparametric Approach to Matched Pairs with Missing Data. *Sociological Methods & Research*, 30, 425–454.
20. Kuha, J. (1997). Estimation by data augmentation in regression models with continuous and discrete covariates measured with error. *Statistics in Medicine*, 16, 189–202.
21. Riihimäki, H., E. Viikari-Juntura, G. Moneta, J. Kuha, T. Videman, and S. Tola (1994). Incidence of sciatic pain among men in machine operating, dynamic physical work, and sedentary work. A three-year follow-up. *Spine*, 19, 138–142.
22. Kuha, J. (1994). Corrections for exposure measurement error in logistic regression models with an application to nutritional data. *Statistics in Medicine*, 13, 1135–1148.

Articles in books

23. Jackson, J. and Kuha, J. (2016). How Theory Guides Measurement: Public Attitudes Toward Crime and Policing. In Huebner, B. M. and Bynum, T. S. (Eds.), *The Handbook on Measurement Issues in Criminology and Criminal Justice*. Hoboken, NJ: Wiley.
24. Jackson, J., Bradford, B., Kuha, J. and Hough, M. (2015). Empirical Legitimacy as Two Connected Psychological States. In Meško, G. and Tankebe, J. (Eds.), *Trust and Legitimacy in Criminal Justice: European Perspectives*. Cham: Springer.
25. Kuha, J. (2006). Bayesian Information Criterion. In N. J. Salkind (Ed.), *Encyclopedia of Measurement and Statistics*. Thousand Oaks, CA: Sage.
26. Kuha, J., C. Skinner, and J. Palmgren (1998). Misclassification error. In P. Armitage and T. Colton (Eds.), *Encyclopedia of Biostatistics*, Volume 4, pp. 2615–2621. New York: Wiley. Reprinted in M. Gail and J. Benichou (eds.), *Encyclopedia of Epidemiologic Methods*, Wiley, 2000.
27. Kuha, J. and C. Skinner (1997). Categorical data analysis and misclassification. In L. Lyberg, P. Biemer, M. Collins, E. De Leeuw, C. Dippo, N. Schwarz, and D. Trewin (Eds.), *Survey Measurement and Process Quality*, pp. 633–670. New York: Wiley.

Other publications

28. Kuha, J. and Sturgis, P. (2016). Comment on ‘What to do instead of significance testing? Calculating the “number of counterfactual cases needed to disturb a finding”’ by Stephen Gorard and Jonathan Gorard. *International Journal of Social Research Methodology*, 19, 491–495.
29. Sturgis, P., Baker, N. Callegaro, M., Fisher, S., Green, J., Jennings, W., Kuha, J., Lauderdale, B., and Smith, P. (2016). *Report of the Inquiry into the 2015 British General Election Opinion Polls*. London: Market Research Society and British Polling Council.
30. Kuha, J. and Moustaki, I. (2014). Preface to the themed issue on social statistics. *Journal of the Royal Statistical Society C*, 63, 191–193.
31. Jackson, J., Hough, M., Bradford, B., Hohl, K., and Kuha, J. (2012). “Policing by consent: Topline results (UK) from Round 5 of the European Social Survey”. *ESS Country Specific Topline Results Series 1*.
32. Jackson, J., Hough, M., Bradford, B., Pooler, T., Hohl, K., and Kuha, J. (2011). “Trust in justice: Topline results from Round 5”. *European Social Survey Topline Results Series 1*.
33. Fisher, S. D., Kuha, J., and Payne, C. (2010). Getting it right on the night, again — the 2010 UK general election exit poll. Editorial, *Journal of the Royal Statistical Society A*, 173, 699–701.
34. Kuha, J. and Skrondal, A. (2007). Comment on ‘Model-based clustering for social networks’ by Handcock, Raftery and Tantrum. *Journal of the Royal Statistical Society A*, 170, 341–342.

35. Kuha, J. (2001) Measurement Error in Self-reported Substance Use. Technical Report 01-45, The Methodology Center, Pennsylvania State University.
36. Firth, D. and J. Kuha (1999). Comments on “A critique of the Bayesian information criterion for model selection”. *Sociological Methods & Research*, 27, 398–402.
37. Kuha, J. (1998). Review of ‘Regression models for categorical and limited dependent variables’ by J. Scott Long. *Statistics in Medicine*, 17, 1534–1535.
38. Kuha, J. (1997). Review of ‘Measurement Error in Nonlinear Models’ by Carroll, Ruppert and Stefanski. *Statistics in Medicine*, 16, 2627–2631.
39. Kuha, J. (1996). Monte Carlo methods for adjusting for measurement error. In *Proceedings of The XVIIIth International Biometric Conference, Amsterdam. Invited Papers*, pp. 257–264.
40. Kuha, J. (1996). Measurement error modelling with Monte Carlo EM. In A. Forcina, G. M. Marchetti, R. Hatzinger, and G. Galmacci (Eds.), *Statistical Modelling. Proceedings of the 11th International Workshop on Statistical Modelling, Orvieto*, pp. 224–231.
41. Kuha, J. (1996). Comment on ‘Hierarchical generalized linear models’ by Lee and Nelder. *Journal of the Royal Statistical Society B*, 58, 660–661.
42. Kuha, J. (1995). *Simulation-based Estimation Methods for Regression Models with Covariate Measurement Error*. Ph.D. thesis, Department of Social Statistics, University of Southampton.
43. Kuha, J. (1994) Measurement Error Corrections for Parameter Estimates of Logistic Models (in Finnish). In *The Yearbook of the Finnish Statistical Society 1993*. Helsinki: The Finnish Statistical Society.
44. Kuha, J. (1992). Covariate measurement error in binary regression models. Research Report 79, Department of Statistics, University of Helsinki.

Selected Presentations at conferences and workshops

1. ‘A bootstrap method for estimating the sampling variation in point estimates from quota samples’. Conference on Inference from Non-Probability Samples, Sciences Po, Paris, March 2017 (joint work with Patrick Sturgis).
2. ‘The inquiry into the 2015 pre-election polls: Preliminary findings and conclusions’. Contribution to the presentation of the findings of the inquiry panel, Royal Statistical Society, London, January 2016.
3. ‘The effect of interviewer probing on item nonresponse and measurement error in cross-national surveys’. Conference of the European Survey Research Association, Reykjavik, July 2015 (joint work Sarah Butt, Myrsini Katsikatsou and Chris Skinner).
4. ‘Equivalence of measurement in cross-national surveys: Definitions, questions and complications’. Workshop on Cross-National Survey Methods, LSE, London, December 2014 (joint work with Irini Moustaki).

5. 'The item count method for sensitive survey questions: Modelling criminal behaviour'. Conference of the European Survey Research Association, Ljubljana, July 2013 (joint work with Jonathan Jackson).
6. 'Public confidence in the criminal justice system: Cross-national measurement in the European Social Survey'. Conference of the European Society of Criminology, Bilbao, September 2012 (joint work with Jonathan Jackson).
7. 'Analysis of cross-national surveys: Latent variable modelling for substantive comparisons and assessment of measurement'. ESRC Research Methods Festival, Oxford, July 2012 (joint work with Irini Moustaki, Sally Stares, Jonathan Jackson and George Gaskell).
8. 'Group means as explanatory variables in multilevel models'. Conference in honour of Professor Emeritus David J. Bartholomew, LSE, London, December 2011 (joint work with Anders Skrondal and Stephen Fisher).
9. 'European attitudes towards the governance of biotechnologies: Who trusts whom?'. Conference of the European Survey Research Association, Lausanne, July 2011 (joint work with Nick Allum).
10. 'Getting it right on the night: The 2010 exit poll'. Conference of the Royal Statistical Society, Brighton, September 2010 (joint work with John Curtice and Stephen Fisher).
11. 'Missingness factors in latent variable modelling'. Methods Festival, University of Jyväskylä, June 2009 (joint work with Anders Skrondal and Jonathan Jackson).
12. 'Path analysis for discrete variables: the role of education in social mobility'. Joint meeting of the Social Statistics and General Applications Section, RSS, London ("Causality in Statistical Investigations"), May 2009 (joint work with John Goldthorpe).
13. 'Scaling fear: Overcoming data complications in the development of indices'. Conference of the European Survey Research Association, Prague, June 2007 (joint work with Jonathan Jackson).
14. 'Multilevel measurement error models for estimation of neighbourhood effects'. Conference of the European Association of Survey Research, Barcelona, July 2005.
15. 'Models for logistic regression with misclassified response'. Meeting of the Nordic Region of the International Biometric Society, Uppsala, June 2003.
16. 'Assessing lack of fit in loglinear models using the index of dissimilarity'. Meeting of ENAR/International Biometric Society, Chicago, March 2000 (joint work with David Firth).
17. 'Measurement error in quadratic regression models'. ISI Conference, Helsinki, August 1999.
18. 'Problems of model choice in the analysis of large scale data sets'. Conference on Statistical Issues in the Social Sciences, The Royal Swedish Academy of Sciences, Stockholm, October 1998 (joint work with David Cox, David Firth and John Goldthorpe).
19. 'Handling measurement error and missing data in a joint modelling framework'. The Royal Statistical Society International Conference, University of Surrey, September 1996 (joint work with Chris Skinner).

20. ‘Models for validation data when adjusting for measurement error’. Joint Statistical Meetings, Chicago, August 1996 (joint work with Chris Skinner).
21. ‘Categorical data analysis and misclassification’. International Conference on Survey Measurement and Process Quality, Bristol, April 1995 (joint work with Chris Skinner).
22. ‘Some Monte Carlo methods of adjusting for covariate measurement error’. Workshop on Statistical Methods for Incomplete Covariate Data in Clinical and Epidemiological Studies, University of Freiburg, February 1995.
23. ‘Errors in variables in logistic regression: Application of two approximate models to dietary data’. 4th Meeting on Nutritional Epidemiology, Berlin, October 1992.

84 other conference and seminar presentations in Amsterdam, Bath, Cambridge, Dortmund, Durham NH, Edinburgh, Glasgow, Gothenburg, Helsinki, Jyväskylä, Lancaster, Ljubljana, London, Manchester, Munich, New York, Oxford, Reading, Reykjavik, Santiago de Compostela, Southampton, Stockholm, Storrs CT, Tilburg, Uppsala, Warwick, and Waterloo.

TEACHING

Courses taught

*Full courses at the LSE (**4** codes indicate postgraduate courses):*

Introduction to Quantitative Analysis (MI411, MI451, MY451)	2005, 10, 14
Intermediate Quantitative Analysis (MY465)	2015
Applied Regression Analysis (MI412, MI452, MY452)	2001–3, 06, 08, 10–11, 13–15
Multivariate Analysis and Measurement (MI413, MI455, MY455, ST405)	2002–8, 10–11, 13, 15–16
Survey Methodology (MY456)	2012–14
Regression Models for Discrete Response Variables (MI456)	2006–07
Event History Analysis (MI456)	2008, 10
Fundamentals of Social Science Research Design (MY400)	2015
Multilevel and Longitudinal Modelling (ST416)	2002–5, 13
Surveys and Experiments in Social Research (ST415)	2002–8
Elementary Statistical Theory (ST102)	2010–12
Statistics in Society (SO102)	2013–16
LSE100 - The LSE Course (LSE100)	2015

Full courses elsewhere:

University of Oxford:	
Advanced Social Statistics	1998, 2003
Penn State University:	
Statistical Model Assessment and Model Choice (STAT597E)	1999
Applied Regression Analysis (STAT462)	2000
Categorical Data Analysis (STAT544)	2000
Survival Analysis (STAT525)	2001

Short courses:

Models for Longitudinal and Clustered Data. ESRC Spring School, Office for National Statistics (2004); LSE (2005)

Introduction to Random Effects Models for Panel Data. Oxford Spring School (2009)

Analysis of Survey Data (Latent Variable Models) and Cross-National Social Surveys. Methodology Centre for Human Sciences (IHME), University of Jyväskylä (2009)

Survey Methodology. LSE Methods Summer Programme (2011–14)

Latent Variable Modelling of Categorical Data: Tools of Analysis for Cross-National Surveys. Total of 7 times in LSE, Manchester, Edinburgh, and the Royal Statistical Society (2012–14)

Cross-National Survey Data: Sources, Nature and Uses. NCRM Autumn School, Southampton (2013)

Event History Analysis. Department of Methodology short course series, LSE (2015)

PhD supervisees with completed doctorates (all at the LSE)

1. Sally Stares. PhD in Social Psychology, 2008 (jointly supervised with George Gaskell): ‘Latent trait and latent class models in survey analysis: Case studies in public perceptions of biotechnology’.
2. Katrin Hohl. PhD in Social Research Methods, 2012 (jointly supervised with George Gaskell): ‘The role of mass media and police communication in trust in the police: New approaches to the analysis of survey and media data’.
3. Yehuda Dayan. PhD in Statistics, 2014: ‘A structured approach to web panel surveys: The use of a sequential framework for non-random survey sampling inference’.
4. Michael Blackwell. PhD in Social Research Methods, 2014 (jointly supervised with Linda Mulcahy): ‘Diversity and its impact: An empirical study of the English courts and legal professions’.
5. Arnaud Vaganay. PhD in Social Research Methods, 2015: ‘Evidence-based policy or policy-based evidence? The effect of policy commitment on government-sponsored evaluation in Britain (1997-2010)’.
6. Ben Wilson. PhD in Social Policy (Population Studies), 2015 (jointly supervised with Wendy Sigle): ‘Origin, destination and convergence: Understanding the fertility of international migrants and their ancestors’.
7. Yew Ding. PhD in Social Research Methods, 2017 (jointly supervised with Mike Murphy): ‘Pathways to frailty and its adverse outcomes: Evidence from the English Longitudinal Study of Ageing’.

PhD examining

Examiner of 8 doctoral theses at LSE, Copenhagen, Jyväskylä, London School of Hygiene and Tropical Medicine, Oxford, and Tilburg.

SERVICE

Professional service

Associate Editor, <i>Psychometrika</i>	2016–
Associate Editor, <i>British Journal of Mathematical and Statistical Psychology</i>	2013–15
Associate Editor, <i>Journal of the Royal Statistical Society, Series C</i>	2009–12
Associate Editor, <i>Statistics and its Interface</i>	2007–13
Chair (2010–12) and member of the Social Statistics section committee, The Royal Statistical Society	2006–12
Member of the Methodology Advisory Committee, Understanding Society survey	2014–
Member of the Advisory Group, BBC Media Action Global Grant	2014–
Member of Review Panel 1, Riksbankens Jubileumsfond (The Swedish Foudation for Humanities and Social Sciences)	2016–
Member of the ESRC Peer Review College	2012–
Member of the Government Statistical Service Methodology Advisory Committee	2010–17
Member of the BPC/MRS inquiry panel on General Election opinion polls	2015–16
Member of the Research Advisory Group, The Scottish Community Engagement Trial	2013–14

Reviewed grant applications for the Economic and Social Research Council and the National Centre for Research Methods (UK), Social Sciences and Humanities Research Council (Canada), Organisation for Scientific Research (Netherlands), Vetenskapsrådet (Sweden), and the European Science Foundation.

Refereed articles for: *American Political Science Review*, *American Sociological Review*, *Biometrics*, *Biostatistics*, *British Journal of Mathematical and Statistical Psychology*, *Community and Applied Social Psychology*, *Demography*, *Economics and Human Biology*, *Electoral Studies*, *Ethnic and Racial Studies*, *European Sociological Review*, *IIE Transactions on Data Mining and Web Mining*, *International Journal of Epidemiology*, *International Journal of Social Research Methodology*, *Journal of Applied Mathematics & Decision Sciences*, *Journal of Applied Statistics*, *Journal of the Korean Statistical Society*, *Journal of Official Statistics*, *Journal of the Royal Statistical Society, Series A, Series B, and Series C*, *Journal of Statistical Computation and Simulation*, *Journal of Statistical Planning and Inference*, *Lifetime Data Analysis*, *Oxford Bulletin of Economics and Statistics*, *Political Analysis*, *Political Science Research and Methods*, *Policing and Society*, *Population Studies*, *Psychological Methods*, *Psychometrika*, *Public Understanding of Science*, *Scandinavian Journal of Statistics*, *Sociological Methodology*, *Sociological Methods & Research*, *Statistical Papers*, *The Statistician*, *Statistics and Computing*, *Statistics in Medicine*, and *Survey Research Methods*

External examiner for:

- Undergraduate courses in Statistics, University of Southampton, 2011–14

University service at the LSE

Service to the School:

Member of the Financial Awards Panel	2002–8
Member of the Data Advisory Body	2004–8
Member of the Survey Review Group	2007
Member of the Research Staff Committee	2010–13
Member of the Advisory group of the LSE Research Festival	2013–14
Member of the Annual review board of the LSE Doctoral Training Centre	2014–16
Member of the Research Development Panel	2015–

Departmental service, Department of Statistics:

Member of the Teaching Committee	2005-8
Programme Director and Chair of the Sub-Board of Examiners, MSc Statistics	2007-8
Academic Board representative	2010-14

Departmental service, Department of Methodology:

MSc Selector, MSc Social Research Methods (Statistics)	2001–06
Programme Director and MSc selector, MSc Social Research Methods	2007–8; 2009–11
Doctoral Programme Director	2011–15
Academic Board representative	2010–13
Chair of the Sub-Board of Examiners, MSc Social Research Methods	2015–16
Chair of the Quantitative Teaching Committee	2011–14
Deputy head of Department	2012–14
Head of Department	2014–15