

Professor George Leckie - Curriculum Vitae

Office contact information:

Centre for Multilevel Modelling
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Academic positions:

August 2019 – Professor of Social Statistics
Centre for Multilevel Modelling and School of Education
University of Bristol

2016 – 2019 Reader in Social Statistics
Centre for Multilevel Modelling and School of Education
University of Bristol

2013 – 2016 Senior Lecturer in Social Statistics
Centre for Multilevel Modelling and Graduate School of Education
University of Bristol

2010 – 2013 Lecturer in Social Statistics
Centre for Multilevel Modelling and Graduate School of Education
University of Bristol

2009 – 2010 Research Associate
Centre for Multilevel Modelling and Graduate School of Education
University of Bristol

2008 – 2009,
2004 – 2005 Research Assistant
Centre for Market and Public Organisation, Department of Economics
University of Bristol

Other positions:

2015 – Co-Director Centre for Multilevel Modelling, University of Bristol

2019 – School Examinations and Plagiarism Officer, School of Education, University of Bristol

2018 – Pathway co-lead for MSc Education (Open pathway), School of Education, University of Bristol

Previous positions:

2017 – 2019 Associate Editor for Journal of the Royal Statistical Society, Series A

2014 – 2017 Associate Professor (status-only), Graduate Department of Applied Psychology and Human Development, University of Toronto

Visiting positions:

2018 – 2021 Guest researcher, Research Unit of Social Epidemiology, Faculty of Medicine, Lund University

2015 Visiting Fellow (2 months)
Faculty of Education, Queensland University of Technology, Brisbane

2013, 2014 Visiting Fellow (2 days a week for 8 months; 2 days a week for 2 months)
Department of Quantitative Social Science, UCL Institute of Education, London

2011 – 2014 Visiting Academic (2 days a week)
Department of Economics and Related Studies, University of York, York

2010 Visiting Scholar (2 months)
Department of Policy Analysis and Management, Cornell University, New York

2008 – 2009 Visiting Guest (9 months)
The Faculty of Economics and Business Administration, VU University, Amsterdam

Academic qualifications:

2005 – 2008 PhD in Education, *Multilevel modelling of school differences in educational achievement*
University of Bristol
Supervised by Harvey Goldstein and Simon Burgess

2003 – 2004 MSc in Economics and Econometrics, *with distinction and first in year*
University of Bristol

2000 – 2003 BSc in Economics, *first class honours and first in year*
University of Bristol

Honours and awards:

2019 Top 20 most read paper in British Educational Research Journal 2017-2018

2019 Top 20 most read paper in Criminology 2017-2018

2018 Winner of 2018 BERJ Editors' Choice Award

2018 American Education Research Association (AERA) International Travel Award

2018 Nominated for Bristol Teaching Awards. *Nomination did not result in an award.*

2017 Royal Statistical Society Frances Wood Medal *for outstanding contribution to Social Statistics*

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| 2017 | Nominated by University of Bristol for Philip Leverhulme Prize in Sociology and Social Policy. <i>Nomination did not result in an award.</i> |
| 2012 | Runner-up for the Jon Rasbash Prize for Quantitative Social Science |
| 2010 | Co-author of 'best paper' for <i>Journal of the Royal Statistical Society: Series A (Statistics in Society)</i> |
| 2010 | Runner-up for AEA-Europe New Assessment Researcher Award |
| 2009 | Outstanding reviewer award: Journal of Educational and Behavioral Statistics |
| 2003 | Miles Fleming Prize in Economics |
| 2002 | Barclays Capital Mathematics Award |

Research grants (P-I on 2 grants totalling £650,000 and Co-I on 8 grants totalling £5 million; grant funded for 40% of my time during the 11 year period October 2010 - September 2021):

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| October 2018 – September 2021 | How should we measure school performance and hold schools accountable? A study of competing statistical methods and how they compare to Progress 8, ESRC Standard Grant, £467,000 . ES/R010285/1. <i>Principal-Investigator (30% FTE).</i> |
| January 2018 – December 2021 | Multilevel Analyses of Individual Heterogeneity: innovative concepts and methodological approaches in Public Health and Social Epidemiology, Vetenskapsrådet (VR), Swedish Research Council, £437,000 . 2017-01321. <i>Co-Investigator (12.5% FTE).</i> |
| July 2017 – December 2019 | Modelling within-individual variation in repeated continuous exposures, MRC-NIHR Methodology Research Programme, £398,000 . MR/N027485/1. <i>Co-Investigator (2.5% FTE).</i> |
| April 2013 – March 2018 | The development of cooperation in relationships: Protective processes for children vulnerable to mental health problems, Canadian Institute of Health Research (CIHR), £274,000 . <i>Co-Investigator (not costed).</i> |
| March 2012 – February 2018 | The impact of family relationships on children's developmental health: Child versus context effects, Canadian Institute of Health Research, £50,000 . <i>Co-Investigator (not costed).</i> |
| October 2013 – September 2017 | eBooks: The use of interactive electronic-books in the teaching and application of modern quantitative methods in the social sciences, ESRC, £786,000 . ES/K007246/1. <i>Co-Investigator (5% FTE).</i> |
| January 2013 – December 2015 | Multilevel modelling of the Government's new school performance measures, 'Floor Standards' Target and 'Narrowing the Gap' Priority, ESRC Future Research Leaders grant, £207,000 . ES/K000950/1. <i>Principal-Investigator (60% FTE).</i> |

- October 2011 – September 2014 LEMMA 3: Longitudinal effects, multilevel modelling and applications, ESRC National Centre for Research Methods node, £1,394,000. RES-576-25-0032.
Co-Investigator (20% FTE).
- October 2009 – September 2012 e-STAT: National Centre for E-social Science Quantitative Node, ESRC Digital Social Research node, £1,100,000. RES-149-25-1084.
Co-Investigator (20% FTE in year 3).
- October 2008 – September 2011 LEMMA 2: STRUCTURES for building, learning, applying and computing statistical models, ESRC National Centre for Research Methods node, £1,200,000. RES-576-25-0003.
Co-Investigator (20% FTE in year 3).

Other grants and travel funds:

- 2018 School of Education Travel Fund, £1500 per application
- 2016 - 2018 DfE National Pupil Database User Group, £5,000, *Co-organiser*
- 2017 Crime and Policing Analysis Unit, Home Office Science, £45,000, *Co-investigator*
- 2017 Graduate School of Education Travel Fund, £1000 per application
- 2013, 2014, 2016 Graduate School of Education Travel Fund, £750 per application
- 2011, 2013 Faculty of Social Science and Law (FSSL) Travel Fund, £750 per application
- 2005 – 2008 ESRC Postgraduate Studentship linked to the Centre for Multilevel Modelling

Research Excellence Framework 2021: Education Unit of Assessment: Nominated publications

- Leckie, G.** (2018). Avoiding bias when estimating the consistency and stability of value-added school effects using multilevel models. *Journal of Educational and Behavioral Statistics*, 43, 440-468. DOI: 10.3102/1076998618755351. *Scored 4* in internal review.*
- Leckie, G.,** French, R., Charlton, C., & Browne, W. (2014). Modeling heterogeneous variance-covariance components in two-level models. *Journal of Educational and Behavioral Statistics*, 39, 307-332. DOI: 10.3102/1076998614546494. *Scored 4* in internal review.*
- Baird, J.-A., Meadows, M., **Leckie, G.,** Caro, D. (2017). Rater Accuracy and Training Group Effects in Expert and Supervisor-Based Monitoring Systems. *Assessment in Education: Principles, Policy & Practice*, 24, 44-59. DOI: 10.1080/0969594X.2015.1108283. *Scored 4* in internal review.*
- Leckie, G.,** & Goldstein, H. (2017). The evolution of school league tables in England 1992-2016: 'contextual value-added', 'expected progress' and 'progress 8'. *British Educational Research Journal*, 43, 193-212. DOI: 10.1002/berj.3264. *Scored 3* in internal review.*
- Leckie, G.,** & Goldstein, H. (2015). A multilevel modelling approach to measuring changing patterns of ethnic composition and segregation among London secondary schools, 2001-2010. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 178, 405-422. DOI: 10.1111/rssa.12066. *Scored 3* in internal review.*

Research Excellence Framework 2021: Education and Mathematical Sciences Unit of Assessments: Draft impact case studies

Education: Thomas, S., **Leckie, G.** and Goldstein, H. Bristol research leads to better ways of evaluating schools thereby promoting learning, achievement and improvement in the UK and internationally. *First authored three of the six underpinning research (co-authored a fourth) and was involved in work leading to eight of the 10 sources to corroborate impact.*

Education: Browne, W. J., Goldstein, H., Charlton, C., **Leckie, G.**, Washbrook, E. Multilevel modelling software development and training leads to improved use of quantitative methods and statistical techniques to address educational, economic and social policy questions by Public Sector & Government Services in UK and internationally. *First authored one of the six underpinning research and was involved in work leading to four of the 10 sources to corroborate impact.*

Mathematical Sciences: Browne, W. J., Goldstein, H., Charlton, C., **Leckie, G.** Extension of 2014 MLwiN impact case study

Research Excellence Framework 2014: Education Unit of Assessment: Publications

Leckie, G., Pillinger, R., Jones, K., & Goldstein, H. (2012). Multilevel modelling of social segregation. *Journal of Educational and Behavioral Statistics*, 37, 3-30. DOI: 10.3102/1076998610394367. *Also used by University of Bristol: Geography*

Leckie, G., & Baird, J.-A. (2011). Rater effects on essay scoring: A multilevel analysis of severity drift, central tendency and rater experience. *Journal of Educational Measurement*, 48, 399-418. DOI: 10.1111/j.1745-3984.2011.00152.x. *Also used by University of Oxford: Education.*

Rasbash, J., **Leckie, G.**, Pillinger, R., & Jenkins, J. (2010). Children's educational progress: partitioning family, school and area effects. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 173, 657-682. DOI: 10.1111/j.1467-985X.2010.00642.x.

Leckie, G., & Goldstein, H. (2009). The limitations of using school league tables to inform school choice. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 172, 835-851. DOI: 10.1111/j.1467-985X.2009.00597.x.

Research Excellence Framework 2014: Education Unit of Assessment: Impact case studies

Education: Bristol research leads to better ways of evaluating schools and promoting learning, achievement and improvement in the UK and internationally. *First authored one of the six underpinning research and was involved in work leading to three of the 10 sources to corroborate impact.*

Mathematical Sciences: The use of multilevel statistical modelling has led to improved evidence-based policy making in education and other sectors. *First authored two of the six underpinning research and was involved in work leading to one of the 10 sources to corroborate impact.*

Google Scholar metrics (at 07/08/2019):

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| Citations | 1807 |
| H-index | 22 |

Articles in peer reviewed journals:

54. Evans, C., **Leckie, G.**, & Merlo, J. Multilevel versus Single Level Regression for the analysis of Multilevel information: The case of Quantitative Intersectional Analysis. *Social Science & Medicine; Forthcoming*.
53. Wemrell, M., Persmark, A., Zettermark, S., **Leckie, G.**, Subramanian, S. V. & Merlo, J. Precision public health: mapping socioeconomic disparities in opioid dispensations at Swedish pharmacies by Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA). *PLOS ONE*.
52. Kristensen, P. K., Merlo, J., Ghith, N., **Leckie, G.**, Johnsen, S. P. (2019). Hospital differences in mortality rates after hip fracture surgery in Denmark. *Clinical Epidemiology*, 11, 605-614.
51. Merlo, J., **Leckie, G.**, and Wagner, P. A simple multilevel approach for analysing geographical inequalities in public health reports: the case of municipality differences in obesity. *Health and Place. Forthcoming*.
50. Persmark, A., Wemrell, M., Evans, C. R., Subramanian, S. V., **Leckie, G.**, & Merlo, J. Intersectional Inequalities and the U.S. Opioid Crisis: Challenging dominant narratives and revealing unseen realities. *Critical Public Health. Forthcoming*.
49. Kwong, A., López-López, J., Hammerton, G., Manley, D., Timpson, N., **Leckie, G.**, Pearson, R. Genetic and Environmental Risk Factors Associated with Different Trajectories of Depression Symptoms from Adolescence to Young Adulthood. *JAMA Network Open. Forthcoming*.
48. **Leckie, G.** and Goldstein, H. (2019) The importance of adjusting for pupil background in school value-added models: A study of Progress 8 and school accountability in England. *British Educational Research Journal*, 45, 518-537. DOI: 10.1002/berj.3511.
47. Allan, J. L., Johnston, D. W., Powell, D. J. H., Farquharson, B., Jones, M. C., **Leckie, G.**, Johnston, M. Clinical decisions and time since rest break: An analysis of decision fatigue in nurses. *Health Psychology. Forthcoming*.
46. Hernández-Yumar, A., Wemrell, M., Abásolo Alessón, I., González López-Valcárcel, B., **Leckie, G.**, Merlo, J. Socioeconomic differences in Body Mass Index in Spain: an intersectional multilevel analysis of individual heterogeneity and discriminatory accuracy. *PLOS One, forthcoming*.
45. von Hinke, S., **Leckie, G.**, & Nicoletti, C. The use of instrumental variables in peer effects model. *Oxford Bulletin of Economics and Statistics. Forthcoming*.
44. Kwong, A. S. F., Manley, D., Timpson, N., Pearson, R., Heron, J., Sallis, H., Stergiakouli, E., Davis, O., & **Leckie, G.** Identifying Critical Points of Trajectories of Depressive Symptoms from Childhood to Young Adulthood: Evidence of Sex Differences from the Avon Longitudinal Study of Parents and Children (ALSPAC). *Journal of Youth and Adolescence (JOYO). Forthcoming*.

43. Sindall, K., Sturgis, P. Steele, F, **Leckie, G.**, & French, R. A reassessment of socio-economic gradients in child cognitive development using Growth Mixture Models. *Longitudinal and Lifecourse Studies*. *Forthcoming*.
42. Austin, P., & **Leckie, G.** (2018). The effect of number of clusters and cluster size on statistical power and type I error rates when testing random effects variance components in multilevel linear and logistic regression models. *Journal of Statistical Computation and Simulation*, 88, 3151-3163. DOI: 10.1080/00949655.2018.1504945.
41. Zhang, N., Wang, W., Harris, R., & **Leckie, G.** Analysing inter-provincial urban migration flows in China: A new multilevel gravity model approach. *Migration Studies*. *Forthcoming*. DOI: 10.1093/migration/mny026.
40. Browne, D. T., Wade, M, Plamondon, A., **Leckie, G.**, Perlman, M., Madigan, S., & Jenkins, J. (2018). Child and contextual effects in the emergence of differential maternal sensitivity across siblings. *Developmental Psychology*, 54, 1265-1276. DOI: 10.1037/dev0000506.
39. Brunton-Smith, I., Sturgis, P., & **Leckie, G.** How collective is collective efficacy? The importance of consensus in judgments about community cohesion and willingness to. *Criminology*, 56, 608-637. DOI: 10.1111/1745-9125.12180.
38. Goldstein, H., **Leckie, G.**, Charlton, C., Tilling, K., & Browne, W. J. Multilevel growth curve models that incorporate a random coefficient model for the level 1 variance function. *Statistical Methods in Medical Research*, 27, 3478-3491. DOI: 10.1177/0962280217706728.
37. Lampert, C, Kim, M., Hubbard, T., Roy, R., & **Leckie, G.** Fearlessly swimming upstream to risky waters: The role of geographic entry in innovation. *Journal of Management Studies*. *Forthcoming*. DOI: <https://doi.org/10.1111/joms.12347>.
36. **Leckie, G.** (2018). Avoiding bias when estimating the consistency and stability of value-added school effects using multilevel models. *Journal of Educational and Behavioral Statistics*, 43, 440-468. DOI: 10.3102/1076998618755351.
35. Merlo, J., Wagner, P, Austin, P., & Subramanian, S. V., **Leckie, G.** General and specific contextual effects in multilevel regression analyses and their paradoxical relationship: a conceptual tutorial. *Social Science and Medicine: Population Health*, 5, 33-37. DOI: 10.1016/j.ssmph.2018.05.006
34. Sandhu, S. S. and **Leckie, G.** Diurnal variation in orthodontic pain: clinical implications and pharmacological management. *Seminars in Orthodontics*, 24, 217-224. DOI: 10.1053/j.sodo.2018.04.003.
33. Austin, P. C., Stryhn, H., **Leckie, G.**, & Merlo, J. (2018). Measures of clustering and heterogeneity in multilevel Poisson regression analyses of rates/count data. *Statistics in Medicine*, 37, 572-589. DOI: 10.1002/sim.7532.
32. Axelsson Fisk, S., Mulinari, S., Wemrell, M., **Leckie, G.**, Perez Vicente, R., Merlo, J. (2018). Chronic Obstructive Pulmonary Disease in Sweden: An intersectional multilevel analysis of individual heterogeneity and discriminatory accuracy. *Social Science and Medicine: Population Health*, 4, 334-346. DOI: 10.1016/j.ssmph.2018.03.005.
31. Baird, J.-A., Meadows, M., **Leckie, G.**, Caro, D. (2017). Rater Accuracy and Training Group Effects in Expert and Supervisor-Based Monitoring Systems. *Assessment in Education: Principles, Policy & Practice*, 24, 44-59. DOI: 10.1080/0969594X.2015.1108283.

30. Browne, D. T., Kumar, A., Puente-Duran, S., Georgiades, K., **Leckie, G.**, & Jenkins, J. (2017). Emotional problems among recent immigrants and parenting status: Findings from a national longitudinal study of immigrants in Canada. *PLoS One*, 12(4), 1-14. DOI: 10.1371/journal.pone.0175023.
29. Brunton-Smith, I., Sturgis, P., **Leckie, G.** (2017). Detecting, and understanding interviewer effects on survey data using a cross-classified mixed-effects location scale model. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 180, 2, 551-568. DOI: 10.1111/rssa.12205.
28. von Hinke Kessler Scholder, S., & **Leckie, G.** (2017). Protecting energy intakes against income shocks. *Journal of Economic Behavior and Organization*, 141, 210-232. DOI: 10.1016/j.jebo.2017.06.007.
27. **Leckie, G.**, & Goldstein, H. (2017). The evolution of school league tables in England 1992-2016: 'contextual value-added', 'expected progress' and 'progress 8'. *British Educational Research Journal*, 43, 193-212. DOI: 10.1002/berj.3264.
26. Steele F., Clarke, P., **Leckie, G.**, Allan, J., & Johnston, D. (2017). Multilevel structural equation models for longitudinal data where predictors are measured more frequently than outcomes: An application to the effects of stress on the cognitive function of nurses. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 180, 263-283. DOI: 10.1111/rssa.12191.
25. Browne, D.T., **Leckie, G.**, Prime, H., Perlman, M., & Jenkins, J. (2016). Observed sensitivity during family interactions and cumulative risk: A study of multiple dyads per family. *Developmental Psychology*, 52, 1128-1138. DOI: 10.1037/dev0000143.
24. Diedrichs, P. C., Atkinson, M. J. Garbett, K. M., Williamson, H., Halliwell, E., Rumsey, N. **Leckie, G.**, Sibley, C. G., & Barlow, F. K. (2016) Randomised controlled trial of an online mother-daughter body image and well-being intervention. *Health Psychology*, 35, 996-1006. DOI: 10.1037/hea0000361.
23. Goldstein, H., & **Leckie, G.** (2016). Trends in examination performance and exposure to standardised tests in England and Wales. *British Educational Research Journal*, 42, 367-375. DOI: 10.1002/berj.3220.
22. Merlo, J., Wagner, P., Ghith, N., & **Leckie, G.** (2016). An original stepwise multilevel logistic regression analysis of discriminatory accuracy: the case of neighbourhoods and health. *PLoS One*, 11(4), 1-31. DOI: 10.1371/journal.pone.0153778.
21. Sandhu, S., & **Leckie, G.** (2016). Orthodontic pain trajectories in adolescents: how different are the individuals? *American Journal of Orthodontics & Dentofacial Orthopedics*, 149, 491-500. DOI: 10.1016/j.ajodo.2015.10.020.
20. Zhang, Z., Parker, R., Charlton, C., **Leckie, G.**, & Browne, W. J. (2016). R2MLwiN - A program to run the MLwiN multilevel modelling software from within R. *Journal of Statistical Software*, 72, 10, 1-43. DOI: 10.18637/jss.v072.i10.
19. Koster, J., **Leckie, G.**, Miller, A., & Hames, R. (2015). Multilevel modeling analysis of dyadic network data with an application to Ye'kwana food sharing. *American Journal of Physical Anthropology*, 157, 507-512. DOI: 10.1002/ajpa.22721.
18. Perlman, M., Lyon Amos, M., **Leckie, G.**, Steele, F., & Jenkins, J. (2015) Capturing the temporal sequence of interaction in young siblings. *PLoS One*, 10(5), 1-21. DOI: 10.1371/journal.pone.0126353.

17. **Leckie, G.**, & Goldstein, H. (2015). A multilevel modelling approach to measuring changing patterns of ethnic composition and segregation among London secondary schools, 2001-2010. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 178, 405-422. DOI: 10.1111/rssa.12066.
16. Koster, J., & **Leckie, G.** (2014). Food sharing networks in lowland Nicaragua: An application of the social relations model to count data. *Social Networks*, 38, 100-110. DOI: 10.1016/j.socnet.2014.02.002.
15. **Leckie, G.** (2014). runmixregls - A program to run the MIXREGLS mixed-effects location scale software from within Stata. *Journal of Statistical Software*, 59 (Code Snippet 2), 1-41. DOI: 10.18637/jss.v059.c02.
14. **Leckie, G.**, French, R., Charlton, C., & Browne, W. (2014). Modeling heterogeneous variance-covariance components in two-level models. *Journal of Educational and Behavioral Statistics*, 39, 307-332. DOI: 10.3102/1076998614546494.
13. Zammit, S., Gunnell, D., Lewis, G., **Leckie, G.**, Dalman, C., & Allebeck, P. (2014). Individual and area level influence on suicide risk: a multilevel longitudinal study of Swedish school children. *Psychological Medicine*, 44, 267-277. DOI: 10.1017/S0033291713000743.
12. **Leckie, G.**, & Charlton, C. (2013). runmlwin - A program to run the MLwiN multilevel modelling software from within Stata. *Journal of Statistical Software*, 52 (11), 1-40. DOI: 10.18637/jss.v052.i11.
11. Jenkins, J., Rasbash, J., **Leckie, G.**, Gass, K., & Dunn, J. (2012). The role of maternal factors in sibling relationship quality: A multilevel study of multiple dyads per family. *Journal of Child Psychology and Psychiatry*, 53, 622-629. DOI: 10.1111/j.1469-7610.2011.02484.x.
10. **Leckie, G.**, Pillinger, R., Jones, K., & Goldstein, H. (2012). Multilevel modelling of social segregation. *Journal of Educational and Behavioral Statistics*, 37, 3-30. DOI: 10.3102/1076998610394367.
9. Cheung, C., Goodman, D., **Leckie, G.**, & Jenkins, J. (2011). Understanding contextual effects on externalizing behaviors in children in out-of-home care: Influence of workers and foster families. *Children and Youth Services Review*, 33, 2050-2060. DOI: 10.1016/j.chilyouth.2011.05.036.
8. **Leckie, G.**, & Baird, J.-A. (2011). Rater effects on essay scoring: A multilevel analysis of severity drift, central tendency and rater experience. *Journal of Educational Measurement*, 48, 399-418. DOI: 10.1111/j.1745-3984.2011.00152.x.
7. **Leckie, G.**, & Goldstein, H. (2011). A note on 'The limitations of using school league tables to inform school choice'. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 174, 833-836. DOI: 10.1111/j.1467-985X.2010.00688.x.
6. **Leckie, G.**, & Goldstein, H. (2011). Understanding uncertainty in school league tables. *Fiscal Studies*, 32, 207-224. DOI: 10.1111/j.1475-5890.2011.00133.x.
5. Rasbash, J., **Leckie, G.**, Pillinger, R., & Jenkins, J. (2010). Children's educational progress: partitioning family, school and area effects. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 173, 657-682. DOI: 10.1111/j.1467-985X.2010.00642.x.

4. **Leckie, G.** (2009). The complexity of school and neighbourhood effects and movements of pupils on school differences in models of educational achievement. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 172, 537-554. DOI: 10.1111/j.1467-985X.2008.00577.x.
3. **Leckie, G.,** & Goldstein, H. (2009). The limitations of using school league tables to inform school choice. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 172, 835-851. DOI: 10.1111/j.1467-985X.2009.00597.x.
2. Propper, C., Burgess, S., Bolster, A., **Leckie, G.**, Jones, K., & Johnston, R. (2007). The impact of neighbourhood on the income and mental health of British social renters. *Urban Studies*, 44, 393-415. DOI: 10.1080/00420980601075067.
1. Propper, C., Damiani, M., **Leckie, G.**, & Dixon, J. (2007). Impact of patients' socioeconomic status on the distance travelled for hospital admission in the English national health service. *Journal of Health Services Research & Policy*, 12, 153-159. DOI: 10.1258/135581907781543049.

Articles under review in peer reviewed journals:

- Austin, P. C., Lee, D. S., **Leckie, G.** A multivariate response Bayesian random effects logistic regression model for provider profiling on multiple binary indicators simultaneously. *Submitted.*
- Austin, P. C., **Leckie, G.** Bootstrapping for estimating standard errors of variance parameters, measures of heterogeneity and random effects in multilevel logistic regression models. *Submitted.*
- French, R., Sariaslan, A., Larsson, H., Kneale, D. & **Leckie, G.** The importance of families in studies of student and school achievement: New methods and findings using administrative education data. *Revise and resubmit.*
- Goldstein, H., Haynes, M., **Leckie, G.**, Tran, P. Estimating measurement error variances using instrumental variables with longitudinal data. *Submitted.*
- Goldstein, H., **Leckie, G.**, Prior, L. Providing educational accountability for Local Authorities based upon sampling pupils within schools: moving away from simplistic school league tables. *Submitted.*
- Hoicka, E., Browne, W. J., **Leckie, G.**, et al. The Early Social Cognition Inventory (ESCI): A valid and reliable parent-report measure of social cognition from birth to 47 months. *Submitted.*
- Kim, R., Lioub, L., Xuc, Y., Kumard, R., **Leckie, G.**, Kapoorf, M., Venkataramanang, R., Kumarh, A., Joe, W., Subramanianan, S. V.,. Precision-Weighted Estimates of Disaggregated Under-Five Mortality for 640 Districts, India 2016. *Submitted.*
- Kwong, A., Maddalena, J., Croft, J., Heron, J., and **Leckie, G.** Childhood Trauma and Trajectories of Depressive Symptoms Across Adolescence. *Submitted.*
- Leckie, G.**, Prior, L., Goldstein, H. The implications of scrapping Key Stage 2 tests for Progress 8 and secondary school accountability in England. *Submitted.*
- Rodriguez-Lopez, M., **Leckie, G.**, & Merlo, J. Multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA) for measuring interaction of effects between multiple categorical variables: an illustrative example using risk factors for preeclampsia. *Submitted.*

Articles in preparation for peer reviewed journals:

- Diedrichs, P. C., Atkinson, M. J., Garbett, K. M., & **Leckie, G.** Evaluating the 'Dove Confident Me' body image intervention for schools task-shifted to teachers: A cluster randomised controlled effectiveness trial. *In preparation.*
- Jenkins, J., **Leckie, G.**, Neiderhiser, J., Reiss, D., & O'Connor, T. G. Maternal depressive symptoms, spillover and interpersonal reactivity: Investigating family dynamics using the Social Relations Model. *In preparation.*
- Lersch, P, Schulz, W., & **Leckie, G.** Variability in Occupational Prestige Trajectories: Changing Intracohort Differentiation in West Germany over the 20th Century? *In progress.*
- Merlo, J., **Leckie, G.**, Perez-Vicente, R., Austin, P. Evaluating Hospital Performance Using Risk Stratified Tabulated Data and Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA): The Case of Survival after Acute Myocardial Infarction. *In preparation.*
- Parker, R. M. A., **Leckie, G.**, Goldstein, H., Heron, J., Howe, L. D., Tilling, K. Joint modelling of individual trajectories, within-individual variability and a distal outcome: systolic blood pressure through childhood and left ventricular mass in early adulthood. *In preparation.*
- Puente-Duran, S., Browne, D. T., **Leckie, G.**, Georgiades, K., & Jenkins, J. Cumulative contextual risk, differential parenting, and the moderating role of maternal immigration status: A between- and within-family analysis. *In preparation.*
- Sandhu, S., **Leckie, G.**, Tilling, K. & Hughes, R. Linear mixed-effects model selection: A comparison of information criteria with prediction criteria. *In preparation.*
- Sokolovic, N., **Leckie, G.** Dillon Browne, & Jennifer Jenkins. What makes family members responsive to one another: Disentangling individual and family effects using a social relations analysis. *In preparation.*

Articles in working paper series prior to appearing in peer reviewed journals:

- Kwong, A. S., Manley, D., Timpson, N. J., Person, R. M., Heron, J., Sallis, H. M., ... & **Leckie, G.** (2018). Identifying Critical Points of Trajectories of Depressive Symptoms From Childhood to Young Adulthood: Evidence of Sex Differences from the Avon Longitudinal Study of Parents and Children (ALSPAC). bioRxiv, 193680. Since published in *Journal of Youth and Adolescence (JOYO)*.
- Burton-Smith, I., Sturgis, P., & **Leckie, G.** (2017). How collective is collective efficacy? The importance of consensus in judgments about community cohesion. *National Centre for Research Methods Working Paper, 3/17.* Since published in *Criminology*.
- Brunton-Smith, I., Sturgis, P., **Leckie, G.** (2016). Detecting, and understanding interviewer effects on survey data using a cross-classified mixed-effects location scale model. *National Centre for Research Methods Working Paper, 2/16.* Since published in *Journal of the Royal Statistical Society: Series A (Statistics in Society)*.
- Leckie, G.** (2009). Modelling the effects of pupil mobility and neighbourhood on school differences in educational achievement. *CMPO Working Paper Series, 08/18, 1-28.* Since published in *Journal of the Royal Statistical Society: Series A (Statistics in Society)*.

- Leckie, G., & Goldstein, H. (2009).** The limitations of using school league tables to inform school choice. *CMPO Working Paper Series*, 09/208, 1-21. *Since published in Journal of the Royal Statistical Society: Series A (Statistics in Society).*
- Leckie, G., & Goldstein, H. (2016).** The evolution of school league tables in England 1992-2016: 'contextual value-added', 'expected progress' and 'progress 8'. Bristol Working Paper in Education Series. Working Paper, 2/16. *Since published in the British Educational Research Journal.*
- Leckie, G., & Goldstein, H. (2018).** Should we adjust for pupil background in school value-added models? A study of Progress 8 and school accountability in England. *arXiv:1811.09240*. *Since published in the British Educational Research Journal.*
- Leckie, G., & Goldstein, H. (2018).** Should we adjust for pupil background in school value-added models? A study of Progress 8 and school accountability in England. *Bristol Working Paper in Education Series*. Working Paper, 11/18. *Since published in the British Educational Research Journal.*
- Propper, C., Damiani, M., **Leckie, G.**, & Dixon, J. (2006). Distance travelled in the NHS in England for inpatient treatment. *CMPO Working Paper Series*, 06/162, 1-18. *Since published in Journal of Health Services Research & Policy.*
- Propper, C., Burgess, S., Bolster, A., **Leckie, G.**, Jones, K., & Johnston, R. (2006). The impact of neighbourhood on the income and mental health of British social renters. *CMPO Working Paper Series*, 06/161, 1-37. *Since published in Urban Studies.*
- Sindall, K., Sturgis, P. Steele, F, **Leckie, G.**, & French, R. (2015). A reassessment of socio-economic gradients in child cognitive development using Growth Mixture Models. *National Centre for Research Methods Working Paper*, 6/15. *Since published in the Longitudinal and Lifecourse Studies.*

Articles in working paper series prior to appearing in Encyclopaedias:

- Leckie, G. (2019).** Cross-classified multilevel models, arXiv: 1907.02569. *Since published in Encyclopedia of Quality of Life and Well-Being Research. Second edition.*
- Leckie, G. (2019).** Multilevel models for continuous outcomes, arXiv: 1907.05941. *Since published in SAGE Research Methods Foundations series.*
- Leckie, G. (2019).** Multiple membership multilevel models, arXiv:1907.04148 *Since published in Encyclopedia of Quality of Life and Well-Being Research. Second edition.*

Articles in working paper series not yet appearing in peer reviewed journals:

- Koster, J., Leckie, G., Aven, B., and Charlton, C. Methods and Software for the Multilevel Social Relations Model: A Tutorial, arXiv: 1907.13629.

Articles in non-peer-reviewed journals:

- Leckie, G., Goldstein, H. (2019).** The Government's Progress 8 school performance measure needs to account for pupil background. *PolicyBristol*. Policy Briefing 66: 01/2019.

- Leckie, G.,** Goldstein, H. (2017). Another shake-up of school league tables: how should we measure and hold schools accountable for the progress of their pupils? *Policy Bristol*. Policy Briefing 41: 01/2017.
- Leckie, G.,** Goldstein, H. (2016). How should we measure and hold schools accountable for the progress of their pupils? *Graduate School of Education Research Briefing No. 32*.
- Browne, W., Charlton, C., & **Leckie, G.** (2014). The Stat-JR software package – a new framework for statistical analysis, software interoperability and training through eBooks. *MethodsNews: Newsletter from the ESRC National Centre for Research*, Spring, 6.
- Leckie, G.** (2014). New-look GCSE league tables reconfirm wide disparities between schools. *The Conversation*. 10-02-2014.
- Leckie, G.,** & Goldstein (2013). School league tables: Revealing or misleading? *Centre for Education Research and Policy at AQA. Comment 23-01-2013*.
- Leckie, G.,** Pillinger, R., Jenkins, J., & Rasbash, J. (2012). School, family, neighbourhood: which is most important to a child's education? *Graduate School of Education Research Briefing No. 4*.
- Leckie, G.,** & Goldstein, H. (2012). School league tables: Are they any good for choosing schools? *Graduate School of Education Research Briefing No. 3*.
- Leckie, G.,** & Charlton, C. (2011). runmlwin: New software to run MLwiN from within Stata. *MethodsNews: Newsletter from the ESRC National Centre for Research*, Summer, 6.
- Leckie, G.,** Pillinger, R., Jenkins, J., & Rasbash, J. (2010). School, family, neighbourhood: which is most important to a child's education? *MethodsNews: Newsletter from the ESRC National Centre for Research*, Summer, 4.
- Leckie, G.,** Pillinger, R., Jenkins, J., & Rasbash, J. (2010). School, family, neighbourhood: which is most important to a child's education? *Significance (Magazine of the Royal Statistical Society)*, 7, 67-72.
- Leckie, G.,** & Goldstein, H. (2009). School league tables: Are they any good for choosing schools? *Research in Public Policy, Bulletin of the Centre for Market and Public Organisation*, 8, 6-9.
- Goldstein, H., & **Leckie, G.** (2008). School league tables: what can they really tell us? *Significance (Magazine of the Royal Statistical Society)*, 5, 67-69.

Book chapters:

- Browne, D. T., **Leckie, G.,** & Jenkins, J. M. (2018). Understanding Couple and Family Dynamics Through Dyadic Methodology. In Fiese, B. H. (Ed.) *APA Handbook of Contemporary Family Psychology*, Volume 1, Chapter 19, X-X.
- Leckie, G.** Multilevel Models for Continuous Responses. *Invited flagship entry (10,000 words) in preparation for SAGE Research Methods Foundations series. Forthcoming.*
- Leckie, G.** and Goldstein, H. (2018). Monitoring school performance using value-added and value-table models: Lessons from the UK. In Perna, C., Pratesi, M., & Ruiz-Gazen, A. (Eds.) *Studies in Theoretical and Applied Statistics*, Springer, Chapter 23, 251-260.

Leckie, G. (2012). Cross-classified multilevel models using Stata: How important are schools and neighbourhoods for students' educational attainment? In Garson, D. (Ed.) *Hierarchical Linear Modeling: Guide and Applications*. Sage, Chapter 14, 311-332.

Leckie, G., Pillinger, R., Jones, K., & Goldstein, H. (2012). Multilevel modelling of social segregation. In Vogt, W. P. and Johnson, B. (Eds.) *Correlation and Regression Analysis, Part 4 Multi-Level Regression Modeling (MLM)*. Sage, 357-384.

Propper, C., & **Leckie, G.** (2011). Increasing competition between providers in health care markets: The economic evidence. In Smith, P. and Glied, S. (Eds.) *Oxford Handbook of Health Economics*, Oxford University Press, Chapter 28, 671-687.

Encyclopaedia entries:

Leckie, G. (2020). Cross-classified hierarchical linear modeling. In: Michalos A. C. (Ed.). *Encyclopedia of Quality of Life and Well-Being Research*. Second edition. Springer, Dordrecht, Netherlands, pp X-X.

Leckie, G. (2020). Multiple membership models. In: Michalos A. C. (Ed.). *Encyclopedia of Quality of Life and Well-Being Research*. Second edition. Springer, Dordrecht, Netherlands, pp X-X.

Leckie, G. (2014). Cross-classified hierarchical linear modeling. In: Michalos A. C. (Ed.). *Encyclopedia of Quality of Life and Well-Being Research*. Springer, Dordrecht, Netherlands, pp 1359-1363.

Leckie, G. (2014). Multiple membership models. In: Michalos A. C. (Ed.). *Encyclopedia of Quality of Life and Well-Being Research*. Springer, Dordrecht, Netherlands, pp 4206-4210.

Statistical software packages:

Charlton, C.M.J., Michaelides, D.T., Parker, R.M.A., Cameron, B., Szymaragd, C., Yang, H., Zhang, Z., Frazer, A.J., Goldstein, H., Jones, K., **Leckie, G.**, Moreau, L., & Browne, W.J. (2013). Stat-JR version 1.0. Centre for Multilevel Modelling, University of Bristol & Electronics and Computer Science, University of Southampton.

Leckie, G. (2013). runmixregls: Stata module for fitting mixed-effects location scale models using the MIXREGLS software package. Centre for Multilevel Modelling, University of Bristol. (<http://www.bristol.ac.uk/cmm/software/runmixregls>)

Leckie, G., & Charlton, C. (2011). runmlwin: Stata module for fitting multilevel models in the MLwiN software package. Centre for Multilevel Modelling, University of Bristol. (<http://www.bristol.ac.uk/cmm/software/runmlwin>)

Zhang, Z., Charlton, C., Parker, R., **Leckie, G.**, & Browne, W. J. (2012). Package 'R2MLwiN'. Centre for Multilevel Modelling, University of Bristol. (<http://www.bristol.ac.uk/cmm/software/r2mlwin>)

Statistical software documentation:

- Browne, W. J., Charlton, C. M. J., Michaelides, D. T., Parker, R. M. A., Cameron, B., Szmaragd, C., Yang, H., Zhang, Z., Goldstein, H., Jones, K., **Leckie, G.**, & Moreau, L. (2013). A beginner's guide to Stat-JR's TREE interface version 1.0.0. Centre for Multilevel Modelling, University of Bristol & Electronics and Computer Science, University of Southampton. (<http://www.bristol.ac.uk/cmm/software/Stat-JR/downloads>)
- Browne, W. J., Charlton, C. M. J., Michaelides, D. T., Parker, R. M. A., Cameron, B., Szmaragd, C., Yang, H., Zhang, Z., Goldstein, H., Jones, K., **Leckie, G.**, & Moreau, L. (2013) An advanced user's guide to Stat-JR version 1.0.0. Centre for Multilevel Modelling, University of Bristol & Electronics and Computer Science, University of Southampton. (<http://www.bristol.ac.uk/cmm/software/Stat-JR/downloads>)
- Charlton, C., & **Leckie, G.** (2011). mcmcsun help file. Centre for Multilevel Modelling, University of Bristol, 1-6. (<http://www.bristol.ac.uk/cmm/media/runmlwin/mcmcsun.pdf>)
- Leckie, G.** (2013). runmixregls help file. Centre for Multilevel Modelling, University of Bristol, 1-8. (<http://www.bristol.ac.uk/cmm/media/runmixregls/runmixregls.pdf>)
- Leckie, G.**, & Charlton, C. (2011). runmlwin help file. Centre for Multilevel Modelling, University of Bristol, 1-28. (<http://www.bristol.ac.uk/cmm/media/runmlwin/runmlwin.pdf>)
- Zhang, Z., Charlton, C., Parker, R., **Leckie, G.**, & Browne, W. J. (2012). R2MLwiN helpfile. Centre for Multilevel Modelling, University of Bristol, 1-39. (<http://www.cran.r-project.org/web/packages/R2MLwiN/R2MLwiN.pdf>)

Conference proceedings:

- Diedrichs, P. C., Atkinson, M. J., Garbett, K. M., Williamson, H. M. Halliwell, E., Rumsey, N., **Leckie, G.**, Sibley, C. and others (2017). Evaluating a Website Designed to Improve Body Image and Psychosocial Well-Being Among Adolescent Girls and Their Mothers: A Cluster Randomised Controlled Trial With Mother-Daughter Dyads. *Journal of Adolescent Health*, Vol. 60, Issue 2, S6.
- Leckie, G.** (2016). Monitoring school performance using value-added and value-table models: Lessons from the UK. *Proceedings of the 48th Scientific meeting of the Italian Statistical Society, Salerno, Italy*. ISBN: 9788861970618.
- von Hinke Kessler Scholder, S., & **Leckie, G.** (2013). Income shocks, food expenditures, calorie intake and body weight: A multilevel structural equation modelling analysis. *Bulletin of the International Statistical Institute*, 68, 3445-3450.
- Leckie, G.** (2013). England's multilevel model based value-added school league tables: Measuring and communicating statistical uncertainty to parents. *Bulletin of the International Statistical Institute*, 68, 824-829.
- Leckie, G.** (2013). Modeling the residual error variance in two-level random-coefficient multilevel models. *Bulletin of the International Statistical Institute*, 68, 4783-4788.
- Ferrao, M., **Leckie, G.**, & Goldstein, H. (2007). Measurement error in random coefficient multilevel models: An application to PLASC data. *Bulletin of the International Statistical Institute*, 62, 4965-4968.

Book reviews:

Leckie, G. (2011). Book Review: Handbook of Advanced Multilevel Analysis, Edited by Hox, J. J. & Roberts, J. K. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 174, 844-845.

Leckie, G. (2009). Book Review: Handbook of Multilevel Analysis, Edited by De Leeuw, J. & Meijer, E. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 172, 694-695.

Official reports:

Leckie, G., Royal-Dawson, L., & Baird, J.-A. (2009). Changes in the severity of marking as a function of number of scripts marked: Key stage 3 English writing summer 2008 quality assurance data. National Assessment Agency, 1-30.

Royal-Dawson, L., **Leckie, G.,** & Baird, J.-A. (2009). An operational report on item statistics for standardisation & benchmarking data - 2008 national curriculum tests. National Assessment Agency, 1-70.

Royal-Dawson, L., **Leckie, G.,** & Baird, J.-A. (2009). Marking reliability of the 2008 national curriculum tests. National Assessment Agency, 1-40. URL:
http://www.naa.org.uk/libraryAssets/media/marking_reliability_tests_2008.pdf.

Fielding, A., Charlton, C., Kounali, D., & **Leckie, G.** (2008). Degree attainment, ethnicity and gender: Interactions and the modification of effects - A quantitative analysis. Higher Education Academy, 1-153. URL:
http://www.heacademy.ac.uk/assets/York/documents/ourwork/inclusion/ethnicity/EDA_Quantitative_Report_March08.pdf.

Online visualizations:

Leckie, G., Charlton, C., & Goldstein, H. (2016). Communicating uncertainty in school value-added. URL: <http://www.cmm.bris.ac.uk/interactive/uncertainty/>.

Dissertations:

Leckie, G. (2008). Multilevel modelling of school differences in educational achievement. PhD Dissertation. University of Bristol.

Leckie, G. (2004). The 'independent school effect' on subsequent degree performance: An analysis of students from Bristol University. MSc Dissertation. University of Bristol.

External expert advice:

2017 - 2018 World Bank
Expert advisor on school value-added modelling project

2016 RAND Europe
External reviewer for joint RAND and DfE project

- 2015 RAND Europe
External reviewer for joint RAND and DfE project
- 2015 Centre for Appearance Research at the University of the West of England
Statistical advisor on two randomised controlled trials
- 2014 RAND Europe
External reviewer for joint RAND and DfE project
- 2014 School of Business & Economics, Catholic University of Portugal
Expert advisor on multilevel modelling
- 2013 The National Center for Educational Achievement (NCEA) / ACT testing company
Expert advisor and reviewer for value added models report
- 2013 Pearson UK and Department of Education, University of Oxford
Expert advisor and reviewer for 'Rater Effects – use of multilevel modelling to monitor raters' project
- 2012 Ofqual and Department of Education, University of Oxford
Stability of rater effects
- 2009 Department of Health grant held by School of Education, University of Birmingham
Multilevel modelling of doctors' interview scores
- 2009 ESRC LEMMA2 grant held by Centre for Multilevel Modelling, University of Bristol
Stata Practicals 3, 5, 6 and 7 for the LEMMA: Learning Environment for Multilevel Methodology and Applications online training system for multilevel modelling
- 2009 National Assessment Agency
Multilevel modelling of marking reliability of the 2008 national curriculum tests
- 2008 Higher Education Academy
Multilevel modelling of ethnic and gender differences in university degree attainment
- 2007 MRC grant held by Institute of Psychiatry, King's College London
Multilevel modelling of the job satisfaction of colorectal cancer team members

Radio coverage:

- 2019 Heart radio (pre-recorded interview); Love sport radio (live interview); BBC World at One (invited to live interview, declined as I was abroad).
- 2012 BBC Radio 4 Analysis
- 2008 BBC Radio 4 The Learning Curve

Newspaper coverage:

| | |
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| 2019 | Bristol Post, Daily Express, The Guardian, The Independent, Leigh Journal, The Star, The Times, Times Educational Supplement, Warrington Guardian, Wigan Today, Yorkshire Post |
| 2013 | The Independent |
| 2009 | The Financial Times, The Guardian, Public Finance magazine, The Telegraph, The Times Educational Supplement |
| 2008 | The Guardian, The Telegraph |

Other media coverage:

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|------|--|
| 2019 | Ekklesia, Greensheets, Humanists UK, Local Gov, My Science, Reclaiming Schools, Schools Improvement, Schools Week, World News Live 4 |
| 2016 | ESRC Society Now magazine Issue 26 Autumn 2016 |
| 2011 | University of Bristol Nonesuch magazine, Autumn 2011 |
| 2010 | ESRC Britain in 2010 magazine |
| 2009 | BBC website, ESRC Society Now magazine Issue 4 Summer 2009 |

Organised conferences:

| | |
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| September 2018 | DfE funded NPD User Group meeting (1 day), Bristol <i>Co-organiser with Rebecca Allen</i> |
| October 2017 | DfE funded NPD User Group meeting (1 day), The Guardian, London <i>Co-organiser with Rebecca Allen</i> |
| September 2016 | DfE funded NPD User Group meeting (1 day), Bristol <i>Co-organiser with Rebecca Allen</i> |
| June 2015 | DfE funded NPD User Group meeting (1 day), Department for Education, London <i>Co-organiser with Rebecca Allen</i> |
| June 2014 | DfE funded NPD User Group meeting (1 day), Bristol <i>Co-organiser with Rebecca Allen</i> |

Organised conference sessions:

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| September 2019 | School accountability in crisis - holding the judges to account British Educational Research Association (BERA) 2019 Annual Conference <i>Joint coordinator with Terry Wrigley and Tom Perry</i> |
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- July 2014 Advanced Multilevel Modelling – Applications
VI European Congress of Methodology, Utrecht
Invited coordinator and chair
- July 2014 Advanced Multilevel Modelling - Methods 1
VI European Congress of Methodology, Utrecht
Invited coordinator and chair
- July 2014 Advanced Multilevel Modelling - Methods 2
VI European Congress of Methodology, Utrecht
Joint coordinator and chair with Don Hedeker
- November 2010 Rater effects - what the literature tells us and what we do not yet know about
measuring examiner accuracy
Association for Educational Assessment (AEA) - Europe Conference, Oslo
Co-applicant with Jo-Anne Baird
- August 2010 School effects on pupil outcomes: quantitative methods and applications
British Educational Research Association (BERA) 2010 Annual Conference,
Warwick. *Coordinator and chair*
- July 2010 Multilevel modelling – Methodology
4th ESRC Research Methods Festival, Oxford
Coordinator and chair

Organised meetings:

- November 2015 ‘The rise of RCTs in education: Statistical and Practical Challenges’
Social Statistics Section Meeting, Royal Statistical Society, London
Organiser
- October 2014 ‘Linking health care records for statistical analysis: care.data, possibilities and
problems’
Social Statistics Section Meeting, Royal Statistical Society, London
Organiser

Organised seminars:

- May 2019 Michele Haynes: ‘Establishing Dependability of Judgement in a Graduate
Teaching Performance Assessment’ Bristol Conversations in Education. School
of Education, University of Bristol.
Organiser
- October 2015 Mike Treadaway: ‘Closing the Gap – How should we be assessing the impact of
the Pupil Premium?’ Graduate School of Education, University of Bristol.
Organiser

Keynote conference presentations:

- August 2018 ‘25 years of school league tables, accountability and choice: Lessons from
England’ Educational Effectiveness EARLI SIG 18 & 23 meeting. Groningen.

- October 2015 'Recovering population-averaged inferences from binary response multilevel models, with examples from demography' Austrian Statistics Days. Vienna.
- August 2014 'Multilevel modelling and the estimation of school effects.'
2nd JURE Special Interest Group Educational Effectiveness pre-conference, Southampton
- May 2009 'The limitations of using school league tables to inform school choice'
Conference on methods and models for the evaluation of educational process, Rimini.

Invited conference, workshop and seminar presentations:

- January 2020 Wolverhampton
- October 2019 London
- April 2019 'Progress 8' National Education Union annual conference, Liverpool
- November 2018 'Accountability and school differential effects' Department of Learning and Leadership, IOE UCL, London
- September 2018 Bristol Cathedral School, Bristol
- September 2018 Royal Statistical Society Annual Conference, Cardiff
- May 2018 Q-step Seminar Series, University of Exeter
- September 2017 Royal Statistical Society Annual Conference, Glasgow
- August 2017 World Bank and Bulgarian Ministry of Education - Republic of Bulgaria, Sofia
- July 2017 'JEBS: Methods for Educational and Behavioral Applications' session at Joint Statistical Meetings (JSM), Baltimore
- March 2017 World Bank and Bulgarian Ministry of Education - Republic of Bulgaria, Sofia
- June 2016 'Statistical tools for monitoring the educational system and assessing students' performances' 48th Scientific Meeting of The Italian Statistical Society
- June 2016 Cathie Marsh Institute for Social Research (CMIST) Seminar Series, University of Manchester
- March 2016 East Midlands local group of the Royal Statistical Society, University of Leicester
- October 2015 Sheffield Methods Institute, University of Sheffield
- September 2015 Royal Statistical Society Annual Conference, Exeter
- February 2015 Berkeley Evaluation & Assessment Research Center Seminar, University of California, Berkeley

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| February 2015 | Faculty of Education, Queensland University of Technology, Brisbane |
| February 2015 | Value-added Modelling Symposium Institute for Positive Psychology and Education (IPPE), Australian Catholic University, Sydney |
| December 2014 | Quantitative Methods Hub seminar series, Department of Education, University of Oxford |
| November 2014 | Royal Statistical Society Glasgow Local Group Seminar, Glasgow |
| September 2013 | Advanced Multilevel Modelling workshop Eberhard Karls Universität Tübingen, Department of Education, Tuebingen |
| August 2013 | 'Statistical methods in educational evaluation session' 59th World Statistics Congress, Hong Kong |
| March 2013 | The Netherlands Institute for the Study of Crime and Law Enforcement (NSCR), Amsterdam |
| February 2013 | Department of Quantitative Social Science (DOQSS) Seminar Series, UCL Institute of Education, London |
| September 2012 | Cathie Marsh Centre for Census & Survey Research (CCSR) Seminar Series, University of Manchester |
| July 2012 | 5 th ESRC Research Methods Festival, Oxford |
| September 2011 | Cathie Marsh Centre for Census & Survey Research (CCSR) Seminar Series, University of Manchester |
| May 2011 | The Social Research Association, London |
| September 2010 | 'Best paper session'. Royal Statistical Society Annual Conference, Brighton |
| July 2010 | School League Tables and Measuring School Performance Conference, Oxford |
| July 2010 | 4 th ESRC Research Methods Festival, Oxford |
| June 2010 | Department of Policy Analysis and Management, Cornell University |
| June 2010 | Summer Program in Data Analysis, York University, Toronto |
| June 2010 | Value-Added Modelling Workshop, University of Colorado, Boulder, Colorado |
| May 2010 | Methodology Research Core Seminar, Institute for Health Research and Policy, University of Illinois at Chicago |
| May 2010 | Berkeley Evaluation & Assessment Research Center Seminar, University of California, Berkeley |
| October 2009 | Royal Statistical Society South West Group Seminar, Plymouth |

September 2009 'Statistics in educational research session' Royal Statistical Society Annual Conference, Edinburgh

October 2008 Royal Statistical Society Avon Local Group Seminar, Bristol

June 2008 3rd ESRC Research Methods Festival, Oxford

December 2007 General Applications Section Meeting, Royal Statistical Society, London

January 2007 National Centre for Research Methods Annual Meeting, Manchester

Other conference, workshop and seminar presentations:

April 2018 2018 AERA Annual Meeting, New York

June 2017 Data Intensive Research Workshop, Cardiff University

April 2017 11th International Amsterdam Multilevel Conference, Utrecht

August 2015 12th Conference of the European Sociological Association, Prague

April 2015 10th International Amsterdam Multilevel Conference, Utrecht

September 2013 Royal Statistical Society Annual Conference, Newcastle

August 2013 59th World Statistics Congress, Hong Kong

March 2013 9th International Amsterdam Multilevel Conference, Utrecht

April 2012 LEMMA3 meeting, University of Aberdeen

September 2011 UK Stata Users' Group, 17th Meeting, London

May 2011 Modern Modeling Methods (M3) Conference, University of Connecticut

May 2011 2011 American Sociological Association Spring Methodology Conference, Tilburg University

March 2011 8th International Amsterdam Multilevel Conference, Amsterdam (×2)

November 2010 Association for Educational Assessment (AEA) - Europe Conference, Oslo (×2)

August 2010 British Educational Research Association (BERA) Annual Conference, Warwick

August 2010 EARLI Special Interest Group 18 Educational Effectiveness Conference, Leuven

October 2009 PLASC User Group Workshop, Bristol

May 2009 Conference on methods and models for the evaluation of educational process, Rimini, Bologna

April 2009 7th International Amsterdam Multilevel Conference, Amsterdam

September 2007 16th European Workshop on Econometrics and Health Economics, Bergen

January 2007 PLASC User Group Workshop, Bristol

November 2006 Association for Educational Assessment - Europe Conference, Naples

Internal conference, workshop and seminar presentations:

September 2017, 2018. 2019 MSc Education pathway session, MSc and PhD welcome week, School of Education, University of Bristol (×2)

July 2017 Centre for Multilevel Modelling session, Research Workshop, Graduate School of Education, University of Bristol

February 2017 Jean Golding Institute, University of Bristol. Famous for 'Three Minutes

November 2016 Bristol Conversations in Education, Graduate School of Education, University of Bristol

September 2016 Research Centres Session, MSc and PhD welcome week, Graduate School of Education, University of Bristol

June 2016 Centre for Multilevel Modelling Research Group, University of Bristol

May 2016 Life after PhD, Graduate School of Education, University of Bristol

June 2013 Centenary Festival of Education 2013, Graduate School of Education, University of Bristol

June 2013 Centre for Multilevel Modelling Research Group, University of Bristol

March 2013 ESRC visit, University of Bristol

February 2013 Centre for Multilevel Modelling Research Group, University of Bristol

June 2012 Festival of Education 2012, Graduate School of Education, University of Bristol

March 2012 Centre for Multilevel Modelling Research Group, University of Bristol

June 2011 MUGS Seminar, Department of Social Medicine, University of Bristol

June 2011 Centre for Multilevel Modelling Research Group, University of Bristol

April 2011 E-Stat Meeting, University of Bristol

November 2009 Vice chancellor visit, University of Bristol

March 2006 CMPO Seminar, Department of Economics, University of Bristol

Conference panel discussions and discussion groups:

- August 2017 World Bank and Bulgarian Ministry of Education - Republic of Bulgaria, Sofia
- March 2017 World Bank and Bulgarian Ministry of Education - Republic of Bulgaria, Sofia
- November 2010 Association for Educational Assessment (AEA) - Europe Conference, Oslo
- July 2010 4th ESRC Research Methods Festival, Oxford

Videos and podcasts:

- 2018 Video Recorded seminar
'Accountability and school differential effects' Department of Learning and Leadership, IOE UCL, London
<https://mediacentral.ucl.ac.uk/Play/15633>
Speaker
- 2016 Audio Recorded seminar
Bristol Conversations in Education Series
Graduate School of Education, University of Bristol
Speaker
- 2015 YouTube
Strengths and Shortcomings of Value-added Models and School League Tables:
The UK experience (1:51:82)
Sydney
https://www.youtube.com/watch?v=eCFjQgXjroU&list=PLXQL18afsd_SSAK8j-VwzP6Q7n0mYjNBk
Speaker
- 2013 YouTube
Centenary Festival: Understanding School League Tables (1:03:17)
Graduate School of Education, University of Bristol
<https://www.youtube.com/watch?v=J8pbD-oLoXg>
Speaker with Harvey Goldstein
- 2012 YouTube
Centre for Multilevel Modelling (CMM) (02:30)
Graduate School of Education, University of Bristol
<https://www.youtube.com/watch?v=tuwopdn-Tsk>
Speaker with Fiona Steele
- 2009 The limitations of using school league tables to inform school choice (20:00)
Royal Statistical Society Annual Conference 2009
<https://www.youtube.com/watch?v=-n9uBIgPaCU>
Speaker

2009 Podcast: Are league tables any use for choosing schools? (08:00)
Centre for Market and Public Organisation, University of Bristol
Speaker

Short international academic visits as visitor:

February 2019 Professor Juan Merlo, Unit for Social Epidemiology, Faculty of Medicine, Lund University, Malmo (4 days)

February 2017 Professor Juan Merlo, Unit for Social Epidemiology, Faculty of Medicine, Lund University, Malmo (4 days)

September 2012 Professor Paul Lichtenstein and Amir Sariaslan, Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm (2 days)

July 2011 Professor Jennifer Jenkins, Department of Applied Psychology and Human Development (AP&HD) in the University of Toronto (5 days)

October 2010 Professor Paul Bingley, SFI, The Danish National Centre for Social Research, Copenhagen (2 days)

June 2010 Professor Jennifer Jenkins, Department of Applied Psychology and Human Development (AP&HD) in the University of Toronto (5 days)

Short international academic visits as host:

January 2017 – February 2017 Professor Jennifer Jenkins, Department of Applied Psychology and Human Development (AP&HD) in the University of Toronto (2 days)

June 2015 Associate Professor Jeremy Koster, Department of Anthropology, University of Cincinnati and Assistant Professor Brandy L. Aven, Carnegie Mellon Tepper School of Business, Carnegie Mellon University (1 day)

February 2013 Professor Don Hedeker, School of Public Health, University of Illinois at Chicago (4 days)

May 2012 Professor Jennifer Jenkins, Department of Applied Psychology and Human Development (AP&HD) in the University of Toronto (5 days)

June 2011 Dillon Browne, Department of Applied Psychology and Human Development (AP&HD) in the University of Toronto (5 days)

February 2011 Dr Annekke Timmermans, Education and Educational Research, University of Groningen (4 days)

International multilevel modelling workshops:

October 2018 Introduction to Multilevel Modelling (1 day)
Bamberg
Course Instructor

- August 2018 Multilevel Modelling in School Effectiveness Research (0.5 days)
EARLI Special Interest Group 18 Educational Effectiveness, Groningen
Course Instructor
- October 2017 Introduction to Multilevel Modelling Using Stata (2 days)
Eurofound European Union Agency, Dublin
Course Instructor
- February 2017 Introduction to Multilevel Modelling (2 days)
Malmo
Course Instructor
- June 2016 Multilevel Modelling (2 days)
Short Course Doctoral School, Ghent University; Ghent
Course Instructor
- 2014, 2016, 2018 Introduction to Multilevel Modelling Using Stata (1 days)
SPHeRE PhD Programme in Population Health and Health Services Research
(PHHSR)
Royal College of Surgeons in Ireland (RCSE), Trinity College Dublin, and
University College Cork; Dublin, Ireland
Course Instructor
- March 2015 Introduction to Multilevel Modelling Using Stata (2 days)
Smurfit Business School, University College Dublin, Dublin, Ireland
Course Instructor
- February 2015 Introduction to Multilevel Modelling (2 days)
Faculty of Education, Queensland University of Technology, Brisbane,
Australia
Course Instructor
- February 2015 Multilevel Modelling (2 days)
Institute for Positive Psychology and Education (IPPE), Australian Catholic
University, Sydney, Australia
Course Instructor
- May 2014 Introduction to Multilevel modelling Using Stata (2 days)
University Giessen School of Management and Economics, Giessen, Germany
Course Instructor
- March 2014 Introduction to Multilevel modelling Using MLwiN (2 days)
Centre for Longitudinal Studies in Ireland, Dublin, Ireland
Course Instructor with William Browne
- September 2013 Advanced Multilevel Modelling Using R (1 day)
Eberhard Karls Universität Tübingen, Department of Education, Tuebingen,
Germany
Course Instructor
- August 2012 Multilevel Modelling in School Effectiveness Research (0.5 days)
EARLI Special Interest Group 18 Educational Effectiveness, Zurich,
Switzerland
Course Instructor

- June 2012 Multilevel Modelling Using Stata (2 days)
 Organisation for Economic Co-operation and Development (OECD), Paris,
 France
Course Instructor
- May 2012 Introduction to Multilevel Modelling Using Stata (2 days)
 HRB PhD Scholars Programme in Health Services Research
 Royal College of Surgeons in Ireland (RCSE), Trinity College Dublin, and
 University College Cork; Dublin, Ireland
Course Instructor
- May 2010 Multilevel Modelling Using MLwiN (4 days)
 University of Cincinnati, Ohio, US
Course Instructor with Dr SV Subramanian
- December 2007 Multilevel Analysis (3 days)
 Katholieke Universiteit, Brussels, Belgium
Course Assistant for Kehryn Jones

UK-based multilevel modelling workshops:

- 2008, 2009,
 2010, 2011,
 2012, 2013,
 2014, 2015,
 2016, 2017,
 2018, 2019 Multilevel Modelling (2 days)
 Royal Statistical Society, London
Course Instructor with Harvey Goldstein
- 2010, 2011,
 2012, 2013,
 2014, 2015,
 2016 (×2), 2017
 (×2), 2018 (×2),
 2019 (×2) Introduction to Multilevel Modelling Using MLwiN (3 days)
 University of Bristol
*Course Instructor with William Browne, Harvey Goldstein, Kehryn Jones, Fiona Steele,
 Richard Parker, and Rebecca Pillinger*
- September 2015 Advanced multilevel modelling using Markov chain Monte Carlo (MCMC)
 ESRC National Centre for Research Methods (NCRM), University of
 Southampton (3 days)
Course Instructor with William Browne
- September 2014 eBook Writing in Stat-JR (2 days)
 University of Bristol
Teaching Assistant for William Browne
- July 2014 Modelling Longitudinal Data using the Stat-JR package (2 days)
 St Catherines College, University of Oxford
Course Instructor with William Browne
- 2012, 2014 Advanced Multilevel Modelling Using Markov Chain Monte Carlo (MCMC) (3
 days)
 University of Bristol
*Course Instructor with William Browne, Paul Clarke, Harvey Goldstein, Kehryn Jones,
 Fiona Steele*

- April 2013 Multilevel Modelling of Discrete Responses (3 days)
University of Bristol
Course Instructor with William Browne, Kehyn Jones, Fiona Steele and Rebecca Pillinger
- 2011, 2013 ‘Bring your own data’ Research Workshop in Multilevel Modelling using
MLwiN (3 days)
University of Bristol
*Course Instructor with William Browne, Kehyn Jones, Fiona Steele, Rebecca Pillinger and
Mark Lyon Amos*
- April 2011 Introduction to Multilevel Modelling in Stata (2 days)
Queen's University, Belfast
Course Instructor with Fiona Steele and Mark McCann
- 2010, 2011 Longitudinal Data Analysis: Multilevel Modelling and Structural Equation
Modelling Approaches (2 days each)
University of Bristol
Course Instructor with Fiona Steele, Kate Tilling and Jon Heron
- 2007, 2008, 2009 Various Multilevel Modelling in MLwiN Workshops (3 days)
University of Bristol
Course Assistant for Kehyn Jones, Jon Rasbash and Fiona Steele
- June 2007 Multilevel Analysis: Practical Applications (10 days)
Essex Summer School, University of Essex
Course Assistant for Kehyn Jones

Multilevel modelling online training materials:

- Leckie, G.** (2010). Introduction to Multilevel Modelling - Stata Practical. LEMMA VLE Module 5, 1-45. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2010). Multilevel Models for Binary Responses - Stata Practical. LEMMA VLE Module 7, 1-55. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2010). Multiple Regression - Stata Practical. LEMMA VLE Module 3, 1-43. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2010). Regression Models for Binary Responses - Stata Practical. LEMMA VLE Module 6, 1-42. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2013). Cross-Classified Multilevel Models - Concepts. LEMMA VLE Module 12, 1-60. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2013). Cross-Classified Multilevel Models – Stata Practical. LEMMA VLE Module 12, 1-52. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2013). Multiple Membership Multilevel Models - Concepts. LEMMA VLE Module 13, 1-61. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2013). Multiple Membership Multilevel Models – Stata Practical. LEMMA VLE Module 13, 1-45. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.

- Leckie, G.** (2013). Three-Level Multilevel Models - Concepts. LEMMA VLE Module 11, 1-47. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G.** (2013). Three-Level Multilevel Models – Stata Practical. LEMMA VLE Module 11, 1-52. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G., & Bell, A.** (2013). Cross-Classified Multilevel Models – MLwiN Practical. LEMMA VLE Module 12, 1-60. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G., & French, R.** (2013). Three-Level Multilevel Models – MLwiN Practical. LEMMA VLE Module 11, 1-56. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G., Morris, T., Steele, F.** (2016). Multilevel Modelling of Repeated Measures Data - MLwiN Practical. LEMMA VLE Module 15, 1-79. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G., Morris, T., Steele, F.** (2016). Single-level and Multilevel Models for Ordinal Responses - Stata Practical. LEMMA VLE Module 9, 1-46. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Leckie, G., & Owen, D.** (2013). Multiple Membership Multilevel Models – MLwiN Practical. LEMMA VLE Module 13, 1-48. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Szmaragd, C., & **Leckie, G.** (2011). Introduction to Multilevel Modelling - R Practical. LEMMA VLE Module 5, 1-42. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Szmaragd, C., & **Leckie, G.** (2011). Multilevel Models for Binary Responses - R Practical. LEMMA VLE Module 7, 1-56. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Szmaragd, C., & **Leckie, G.** (2011). Multiple Regression - R Practical. LEMMA VLE Module 3, 1-54. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.
- Szmaragd, C., & **Leckie, G.** (2011). Regression Models for Binary Responses - R Practical. LEMMA VLE Module 6, 1-45. URL: <http://www.bristol.ac.uk/cmm/learning/online-course/>.

PhD teaching:

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|---|--|
| 2015, 2016, 2017, 2018 | Multilevel Modelling Using Stata: A second course (2 days) ESRC South West Doctoral Training Centre, Advanced Quantitative Methods Pathway <i>Unit leader</i> |
| 2012, 2013, 2014, 2015, 2016, 2017, 2018 | Multilevel Modelling Using Stata: An introduction (2 days) ESRC South West Doctoral Training Centre, Advanced Quantitative Methods Pathway <i>Unit leader</i> |
| 2012 (×2), 2013, 2014, 2015, 2017 | Review of Linear Regression Using Stata (2 days) ESRC South West Doctoral Training Centre, Advanced Quantitative Methods Pathway <i>Unit leader</i> |

2011, 2012, 2013, 2014, 2015, 2016, 2017 Introduction to Stata (2 days)
ESRC South West Doctoral Training Centre, Advanced Quantitative Methods
Pathway
Unit leader

November 2007 PhD Stata for Economics and Econometrics Research Students (8 two-hour
tutorials)
Department of Economics, University of Bristol
Unit leader

PhD students:

2019 – 2023 Megan Attwood
The Anxious Mind Under Threat - Examining the interplay between anxiety,
working memory and emotion
School of Experimental Psychology, University of Bristol
ESRC funded SWDTP Psychology Pathway student
Second supervisor

2018 – 2022 Rhiannon Moore
School of Education, University of Bristol
ESRC funded SWDTP Advanced Quantitative Methods Pathway student
Second supervisor

2017 – 2021 Sabah Arshad
Impact of Conditional Cash Transfer Program on Girls enrolment and
attainment level: Evidence from Pakistan
School of Education, University of Bristol
UoB scholarship
Second supervisor

2016 – 2020 Alex Kwong
Examining gene x environmental interactions for psychiatric disorders: A
multilevel modelling approach
School of Geographical Sciences, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Second supervisor

2016 – 2020 Satpal Sandhu
Analysis of longitudinal craniofacial growth data to examine growth trajectories
and pattern, factors influencing the growth, and to develop growth prediction
model.
Graduate School of Education, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Joint first supervisor

2015 – 2019 Beatriz Gallo Cordoba
Statistical modelling of ethnic achievement gaps in Colombia
Graduate School of Education, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
First supervisor

- 2015 – 2019 Merve Demiralp
Graduate School of Education, University of Bristol
Second supervisor
- 2014 – 2018 Nina Zhang
Modelling China’s Interprovincial Migration between 2000 and 2010
School of Geographical Sciences, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Third supervisor
- 2014 – 2018 Gareth Griffith
Investigating inequalities in UK mental health using advanced multilevel
methodologies
School of Geographical Sciences, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Second supervisor
- 2012 – 2016 Dillon Browne
Social disadvantage gets inside the family: Examining bio-psychosocial family
processes as mediators in the emergence of developmental health inequalities
Ontario Institute for Studies in Education, University of Toronto
External supervisory committee member
- 2012 – 2016 Puneet Tiwari
Latent Variable Mixture Models for Heterogeneity in Innovation
School of Economics Finance and Management, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Second supervisor
- 2011 – 2015 Dewi Owen
Measuring Residential Segregation In England And Wales: A Model-Based
Approach
School of Geographical Sciences, University of Bristol
ESRC funded SWDTC Advanced Quantitative Methods Pathway student
Second supervisor

PhD viva panels as external examiner:

- March 2018 Eduardo Lucio, Institute for Social Science Research, The University of
Queensland
‘Extending Imputation Methods for Non-normal Hierarchical Data: An
Application to a Longitudinal Survey in the Philippines’
- June 2016 Dillon Browne, Ontario Institute for Studies in Education, University of
Toronto
‘Social disadvantage gets inside the family: Examining bio-psychosocial family
processes as mediators in the emergence of developmental health inequalities’
- September 2015 Patricio Troncoso, Social Statistics, Cathie Marsh Centre for Census and Survey
Research, School of Social Sciences, University of Manchester
‘Beyond the traditional school value-added approach: Analysing complex
multilevel models to inform external and internal school accountability in Chile’

- January 2014 Tom Macintyre, Centre for Educational Sociology, University of Edinburgh
‘Using and Applying International Survey Data on Mathematics and Science Education’
- January 2014 Will Cook, Social Statistics, Cathie Marsh Centre for Census and Survey Research, School of Social Sciences, University of Manchester
‘Modelling the effects of the inclusion of pupils with additional support needs (ASN) on attainment and attendance in primary schools’

PhD viva panels as chair and internal examiner:

- June 2019 Suh Keong Kwon, School of Education, University of Bristol
- August 2016 Lei Zhang, Graduate School of Education, University of Bristol
‘School and Teacher Effectiveness of Senior High Schools in Western China’

PhD upgrade panels:

- March 2019 Chengcheng Ma, School of Education, University of Bristol
First examiner
- January 2018 Merve Demiralp, School of Education, University of Bristol
First examiner
- May 2017 Duygu Cavda, Graduate School of Education, University of Bristol
Second examiner
- March 2017 Amy Sweet, School of Geographical Sciences, University of Bristol
Second examiner
- February 2017 Suh Keong Kwon, Graduate School of Education, University of Bristol
First examiner
- May 2014 Dillon Browne, Ontario Institute for Studies in Education, University of Toronto
Second examiner
- May 2014 Lei Zhang, Graduate School of Education, University of Bristol
Second examiner
- June 2012 Rebecca Pillinger, Graduate School of Education, University of Bristol
Second examiner
- November 2011 Toni Price, Graduate School of Education, University of Bristol
Second examiner

PhD annual progress meeting panel:

- August 2017 Adrian Sayers, Musculoskeletal Research Unit, University of Bristol. External panel member.
Second examiner

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| September 2015 | Adrian Sayers, Musculoskeletal Research Unit, University of Bristol. External panel member. <i>Second examiner</i> |
| August 2014 | Bobby Stuijtzand, School of Experimental Psychology, University of Bristol <i>Second examiner</i> |

EdD teaching:

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| 2016, 2018 | EdD: Conducting Educational Research: Quantitative Analysis (one lecture) <i>Unit lecturer</i> |
| 2014, 2015 | EdD: Research Methods in Learning, Leadership and Policy (one lecture) <i>Unit lecturer</i> |

EdD Hong Kong dissertation supervision:

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| 2017 – | May Lo Chew Me |
| 2017 | Carol Sze <i>Brief period of supervision before permanent supervisor could be found</i> |

MSc teaching:

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| 2016/17, 2017/18, 2018/19 | MSc Statistics in Education (a.k.a. Introduction to Quantitative Methods for MSc Education Research and PhD students) (50% of the 20 credit unit) <i>Unit lecturer</i> |
| 2015/16, 2016/17, 2017/18, 2018/19 | MSc Multivariate Statistical Methods in Education (a.k.a. Advanced Quantitative Methods in the Social Sciences for MSc Education Research and PhD students) (50% of the 20 credit unit) <i>Unit director and lecturer</i> |
| 2017/18 | MSc Philosophy and Research Design (marking one assignment) <i>Unit tutor</i> |
| 2017/18 | MSc Mathematics and Programming Skills (33% of the 20 credit unit) <i>Unit lecturer</i> |
| 2015/16 | MSc Quality and Improvement in Education (one lecture) <i>Unit lecturer</i> |
| 2012/13, 2013/14 | MRes Quantitative Analysis III (one lecture and one practical) UCL Institute of Education, London <i>Guest lecturer</i> |
| 2011/12 | MSc Regression Analysis in Social Science (2 days) Graduate School of Education, University of Bristol <i>Unit leader</i> |

2005/06, MSc Introduction to Microeconometric Methods (5 one-hour tutorials)
2006/07, Department of Economics, University of Bristol
2007/08 *Unit tutor*

2005/06, MSc Quantitative Methods in Economics (10 one-hour tutorials repeated 3
2006/07, times)
2007/08 Department of Economics, University of Bristol
Unit tutor

MSc dissertation supervision:

2017/18 Fen Qiu, School of Education, University of Bristol
2016/17 Chang Song, Graduate School of Education, University of Bristol
2011/12 Rosa Mann, Graduate School of Education, University of Bristol

Undergraduate teaching:

2017/18 Year 1 - Convincing Stories
Unit tutor (three two-hour seminars)

Masters personal tutor:

2017/18 19 students

External professional activities: International

June 2019 Discussion with Israel Academy of Sciences about school value added models
2018 - 2019 Trinidad and Tobago Department for Education: Advising on school value-added models
2018 - 2019 Sweden Department for Education: Advising on school value-added models
March 2018 Discussions with Bulgarian minister of education and heads of directorates as expert member of World Bank team
2015 Advisor for Slovak Republic National Institute for Certified Educational Measurements: Schools Value-Added Report
2014 Advisor for ICFES Value Added in Higher Education Workshop, Colombian Evaluation Institute, Colombia

External professional activities: National

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| October 2019 | Member of the WISERD Education Data Lab Steering Group |
| August 2019 | Discussion with Education Campaigns Manager at Humanists UK about Progress 8 |
| June 2019 | Office for National Statistics, Working group on Data for Children project |
| May 2019 | Discussion with Director and Chief Economist of Northern Powerhouse Partnership |
| April 2019 | Presentation of Progress 8 research to Emma Hardy MP (Education Select Committee member) at Portcullis house |
| March 2019 | Presentation of Progress 8 research to MPs at private meeting with UK Parliament Education Select Committee |
| March 2019 | ESRC Steered Studentship Assurance Checking virtual panel |
| February 2019 | Office for Standards in Education, Children's Services and Skills (Ofsted) knowledge exchange meeting about potential Ofsted projects and Progress 8 research |
| February 2019 | Discussion with Head of Co-Op Academies about Progress 8 |
| 2018 | Office for Student (OfS) Benchmarking review advisory group |
| October 2018 | Discussion with Headmaster of school in North West about Progress 8 |
| October 2018 | Office for Standards in Education, Children's Services and Skills (Ofsted) knowledge exchange meeting about potential Ofsted projects and Progress 8 research |
| November 2017 | Discussion with DfE regarding proposed research on evaluating competing statistical methods for measuring school performance |
| November 2017 | Discussion with HEFCE regarding proposed research on evaluating competing statistical methods for measuring school performance |
| 2017 | Higher Education Funding Council England (HEFCE) Learning Gain Expert Group |
| 2017 – 2019 | Associate Editor for Journal of the Royal Statistical Society: Series A (Statistics in Society) |
| May 2017 | Economic and Social Research Council (ESRC) commissioning panel for NCRM Phase II Call 2017 |
| 2016 | Discussion with HEFCE regarding incorporating visualisation of statistical uncertainty in their university comparisons website UniStats |
| 2012 – 2014, 2015 – 2019 | Academic member of the Economic and Social Research Council's (ESRC) Peer Review College |

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|-------------|---|
| 2015 – 2016 | Advised Reclaiming Schools website and the Charter for Primary Education on the predictive validity of baseline tests for KS2 scores. |
| 2015 | Member of Sutton Trust Evaluation Framework Advisory group |
| 2014 | Advised The Times and Sunday Times Data Team on Key Stage 4 to Key Stage 5 value-added scores |
| 2014 | Department for Education: Discussion with Professor Kane on teacher effectiveness research |
| 2013 | Department for Education: Development of family indicators in NPD meeting |
| 2013 – 2015 | Member of the Royal Statistical Society's Social Statistics Section committee |
| 2012 – 2014 | Member of Department for Education: 16-19 Bursary Fund Impact Evaluation steering group |
| 2011 | British Academy Policy Forum: League Tables in the Public Sector |
| 2011 – 2015 | Member of the Royal Statistical Society's Professional Development Centre steering committee |

Internal professional activities: University-level (University of Bristol):

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|---------------|--|
| 2016, 2017 | Member of shortlisting and interview panels for Social Science and Community Medicine MRC grant Senior Research Associate position |
| November 2016 | Meeting about Teaching Excellence Framework (TEF) with Pro Vice-Chancellor for Education and Students, University of Bristol |
| 2015 – | Co-Director Centre for Multilevel Modelling, University of Bristol |
| 2016 | Member of mock interview panels for MRC Skills Development Fellowship |
| 2013 – 2015 | Faculty of Social Sciences and Law representative of the Research Data Storage and Management Board (RDSMB), University of Bristol |

Internal professional activities: Faculty-level (Faculty of Social Science and Law, FSSL):

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|------------------------------|---|
| 2014 – 2017 | Mentor on multilevel modelling for ESRC Future Research Leaders: 'Attitudes to Domestic Violence in Low- and Middle-income Countries: A multi-level Approach to Prevention'. Dr LynnMarie Sardinha, Social Policy and International Studies, University of Bristol. |
| 2011, 2012, 2013, 2014, 2016 | Member of the South-West Doctoral Training Centre (SWDTC) 'Advanced Quantitative Methods' (AQM) Pathway PhD student short listing panel |
| 2004 – | Member of Centre for Market and Public Organisation (CMPO) |
| 2015, 2016 | Member of the South-West Doctoral Training Centre (SWDTC) 'Advanced Quantitative Methods' (AQM) Pathway PhD student interview panel |

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| 2014 | Member of interview panels for Lecturer/Senior Lecturer/Reader (×1) positions |
| 2014 | Reviewer for British Academy Postdoctoral Fellowship application |

Internal professional activities: school-level (School of Education, SoE):

| | |
|--------------------|---|
| 2019 – | School Exams officer (Exams, assessment, and plagiarism) |
| 2019 – | Member of interview panel for Administrative Staff member |
| 2018 – | Member of the Athena Swan award Working Group |
| 2017 – | MSc Education Pathway Coordinator |
| 2017, 2019 2016 | Member of the PhD Annual Programme Review panel Member of the Finance and Funding Working Group |
| 2015 – | Member of the Impact Research Committee Working Group |
| 2015 – | Member of the Centre Directors' Research Committee |
| 2014 | GSoE Research Director's workshop 'Research opportunities for post docs and early career fellowships' |
| 2014 | Reviewer for GSoE peer review process: British Academy proposal |
| 2010 – 2012 | Budget holder for e-STAT ESRC grant |
| 2011, 2012, 2014 | Member of PhD upgrade panels (×3) |
| 2011 – | Associate member of Centre for Assessment and Evaluation Research (CAER) |
| 2010 – 2012 | Member of GSoE Quantitative Methods Forum |

Internal professional activities: Centre-level (Centre for Multilevel Modelling, CMM):

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|----------------|---|
| 2018 | Chair of interview panel for Research Associate position |
| 2015 – | Co-Director Centre for Multilevel Modelling, University of Bristol |
| 2014 | Network Public Engagement Co-ordinator for CMM |
| 2010 – 2015 | Fire warden for CMM |
| 2010 – 2014 | Member of CMM interview panels for Research Assistant (×2), Research Associate (×2) positions |
| 2005 – Present | Member of CMM reading group |

Referee reports for research council grant proposals:

Economic and Social Research Council (ESRC): Secondary Data Analysis Initiative, 2017

Economic and Social Research Council (ESRC): NCRM Commissioned Research Projects - Phase II, 2017 (×5)

Economic and Social Research Council (ESRC): Advanced Training Initiative, 2014 (×2)

Economic and Social Research Council (ESRC): Mid-Career Development Fellowships (Open Call), 2011

Economic and Social Research Council (ESRC): Research Grants (Open Call), 2011, 2016

The Leverhulme Trust

National Health Service (NHS) National Institute for Health Research (NIHR) Public Health Research programme

National Science Foundation (NSF): Methodology, Measurement, and Statistics

Netherlands Organisation for Scientific Research (NWO) Social Sciences Board, 2016

Research Council Katholieke Universiteit Leuven, 2012

Research Foundation - Flanders (FWO)

Research Grants Council, Hong Kong

Referee reports for peer reviewed journals:

Annals of Applied Statistics

Assessment in Education: Principles, Policy & Practice

British Educational Research Journal

British Journal of Mathematical and Statistical Psychology

Economics and Human Biology

Effective Education

Evaluation Review

Fiscal Studies

Health Economics

International Journal of Research & Method in Education

International Journal of Social Research Methodology

Journal of Applied Statistics
Journal of Economic Geography
Journal of Educational and Behavioral Statistics
Journal of the Royal Statistical Society: Series A
Journal of the Royal Statistical Society: Series C
Journal of Statistical Software
Methodology
Multivariate Behavioral Research
PLoS ONE
Psychological Methods
Psychometrika
Quality & Quantity
Social Science & Medicine – Population Health
Sociological Methods and Research
Statistics in Medicine
Statistical Methods and Applications

Other referee reports:

Book proposal review for Sage, 2019

Reference for a senior promotion application at UCL IOE, 2018

Book proposal review for Elsevier / Academic Press, 2016

Member of Lisbon Research Workshop on Economics, Statistics and Econometrics of Education Scientific Committee, 2012

Abstract reviewer for British Educational Research Association (BERA) 2011 Annual Conference: Research Methodology in Education SIG

Book chapter review for Sage

Academic reviewer for Economic and Social Research Council's (ESRC) Advanced Quantitative Methods Enhanced Stipend Assessment, 2011

Entry reviews for Encyclopaedia of Quality of Life Research. Springer Reference

Statistical modelling training courses attended (since 2013):

Quantile Regression for Longitudinal and Multilevel Data, Nikos Tzavidis, Bamberg. 10 October 2018.

Mixed Models for Longitudinal Categorical Outcomes. Donald Hedeker. ASA webinar. 16 July 2015.

Multilevel Structural Equation Modeling in R. Paras Mehta. 10th International Multilevel Conference, Utrecht. 7 April 2015.

The Application of Item Response Models using R. Dave Hessen. VI European Congress of Methodology, Utrecht. 22 July 2014.

Structural Equation Modeling with lavaan. Yves Rosseel. VI European Congress of Methodology, Utrecht. 22 July 2014.

Geographically Weighted Modelling. Martin Charlton, Chris Brunsdon and Paul Harris. University of Bristol. 23-24 April 2014.

A 2 Day course on Longitudinal and Incomplete Data. Geert Verbeke and Geert Molenberghs. RSS, London. 26-27 March 2014.

Inference for Clustered Data. Colin Cameron. IFS, London. 11 October 2013.

Simulation Methods. Colin Cameron. IFS, London. 10 October 2013.

Joint Modelling of Repeated Measurement and Event Time Data in Clinical Research. RSS Conference, Newcastle. 2 September 2013.

Affiliations:

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| 2019 | Member of the British Educational Research Association (BERA) |
| 2013 | Fellow of the Higher Education Academy (FHEA) |
| 2011 – 2014 | Research Associate, Department of Economics, University of York |
| 2009 – 2010 | Member of the British Educational Research Association (BERA) |
| 2007 – Present | Fellow of the Royal Statistical Society |
| 2005 – Present | Research Associate, CMPO, Department of Economics, University of Bristol |

Referees:

Professor Harvey Goldstein FBA
Professor of Social Statistics
Centre for Multilevel Modelling, University of Bristol,
35 Berkeley Square, Bristol, BS8 1JA
United Kingdom h.goldstein@bristol.ac.uk

Professor Fiona Steele FBA OBE
Professor of Statistics
Columbia House, Room COL 7.08, Department of Statistics,
London School of Economics, Houghton Street, London, WC2A 2AE, UK
f.a.steele@lse.ac.uk

Professor Patrick Sturgis
Professor of Research Methodology & Director of ESRC National Centre for Research Methods
Social Statistics & Demography, Social Sciences,
University of Southampton, Southampton, SO17 1BJ, UK
p.sturgis@soton.ac.uk

Professor Anna Vignoles FBA
Professor of Education
Faculty of Education, University of Cambridge, 184 Hills Road, Cambridge CB2 8PQ, UK
av404@cam.ac.uk