

## Professor George Leckie - Curriculum Vitae

### **Office contact information:**

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### **Academic positions:**

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

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

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

2010 – 2013 Assistant Professor: 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:**

2023 – Hub affiliated member of Advanced Quantitative Research in Education,  
Moray House School of Education and Sport, University of Edinburgh

2022 – ADR UK Ambassador *for increasing and improving the use of administrative data in  
academia for research to inform policy*

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

2021 – School Academic Integrity Officer, School of Education, University of Bristol

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

### **Previous positions:**

- 2019 – 2021 School Examinations and Plagiarism Officer, School of Education, University of Bristol
- 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*  
Funded via ESRC studentship (PTA-042-2005-00012) linked to ESRC grant (RES-576-25-5006)
- 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:

- 2024 Nominated in the Bristol Teaching Awards (BTAs) in the award category: Inspiring And Innovative Teaching Award (×2)
- 2023 Longlisted for NCRM Impact Prize for joint with UCAS.
- 2023 A “Top Downloaded Article 2021-2022” in Review of Education.
- 2023 Nominated in the Bristol Teaching Awards (BTAs) in the award category: Outstanding Research Supervision Award
- 2023 Nominated in the Bristol Teaching Awards (BTAs) in the award category: Team award for School of Education Postgraduate Quantitative Methods Teaching Team. *Nomination resulted in shortlisting to final three in university to be selected by the PVC Education and Vice-Chancellor.*
- 2023 A “Top Cited Article 2021-2022” in Review of Education
- 2021 Nominated in the Bristol Teaching Awards (BTAs) in the award category: Inspiring and Innovative Teaching Award (×3); Outstanding Personal Tutoring Award (×1). *Nominations did not result in an award.*
- 2020 Top 10% most cited paper in BERJ 2019
- 2020 Shortlisted and interviewed by ESRC for ESRC Celebrating Impact Prize 2020: ‘Outstanding public policy impact’ category. *Interview did not result in an award.*
- 2019 BERA Public Engagement and Impact Award: Individual prize
- 2019 Top 20 most read paper in British Educational Research Journal 2017-2018
- 2019 Top 10% most cited paper in PLOS ONE 2016
- 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: Outstanding Teaching award. *Nomination did not result in an award.*
- 2017 Royal Statistical Society Frances Wood Medal *for outstanding contribution to Social Statistics*
- 2017 Nominated by University of Bristol for Philip Leverhulme Prize in Sociology and Social Policy. *Nomination did not result in an award.*
- 2012 Runner-up for the Jon Rasbash Prize for Quantitative Social Science
- 2010 Co-author of ‘best paper’ for *Journal of the Royal Statistical Society: Series A (Statistics in Society)*

- 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**

### **Research grants**

(P-I on 3 grants totalling £1 million and Co-I on 12 grants totalling over £7 million; grant funded for 40% of my time during the 14-year period October 2010 - September 2024):

- February 2024 - January 2027 "Parallel Lives" 20 Years On: Identifying the Drivers of Interethnic Contact in the UK. ESRC Standard Grant. **£615,000**. ES/Y005503/1.  
***Co-Investigator (5% FTE)***.
- May 2024 - January 2025 'Effect of parenting engagement on research productivity: A comparison of behaviours and career cost pre- to post-pandemic'  
UKRI ESRC - Innovation & Research Caucus  
***Co-Investigator (not costed) (0.1% FTE)***
- September 2023 - August 2026 Understanding intersectionality: developing intersectional quantitative methods, with applications to health inequalities and social mobility. ESRC Embedding methodological development in social science research: 2022. **£827,000**. ES/X011313/1.  
***Co-Investigator (10% FTE)***.
- January 2022 – December 2026 The role of sample characteristics in the stability of value-added estimates of school effects: sample size, student mobility and sample heterogeneity. The Research Foundation – Flanders (FWO) - Senior research projects fundamental research, **£200,000**. G023823N.  
***Co-Investigator (not costed) (2.5% FTE)***.
- April 2022 – March 2024 The 2020 GCSE and A-level 'exam grades fiasco': A secondary data analysis of students' grades and Ofqual's algorithm.  
ESRC Secondary Data Analysis Initiative, **£299,000**. ES/W000555/1.  
***Principal-Investigator (35% FTE)***.
- October 2018 – March 2022 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.  
***Principal-Investigator (30% FTE)***.
- 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.  
***Co-Investigator (12.5% FTE)***.
- July 2017 – December 2019 Modelling within-individual variation in repeated continuous exposures, MRC-NIHR Methodology Research Programme, **£398,000**. MR/N027485/1.  
***Co-Investigator (2.5% FTE)***.
- 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**.  
***Co-Investigator (not costed)***.
- 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**.  
***Co-Investigator (not costed)***.

- 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.  
***Co-Investigator (5% FTE).***
- 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.  
***Principal-Investigator (60% FTE).***
- 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).***

## Rejected research grants!

February 2025- January 2030	ENDEVOUR: Exploring Neurodivergence in Education: A Longitudinal Mixed-methods Study on its Influences, Impacts, and Contextual Changes. ERC Starter Grant. <b>£1,570,388. Co-Investigator (10% FTE).</b>
December 2023 - August 2024	Effect of parenting engagement on research productivity: A comparison of behaviours and career cost pre- to post-pandemic. UK Research and Innovation and The British Academy Equality Diversity and Inclusion Caucus (EDICa) Flexible Fund. <b>£34,860. Co-Investigator (not costed).</b>
December 2022 - November 2024	Together, Apart: Exploring the Drivers of Intergroup Contact Engagement, ESRC Secondary Data Analysis Initiative, <b>£298,967. R210710. Co-Investigator (2.5% FTE).</b>
May 2021 – April 2025	The role of sample characteristics in the stability of value-added estimates of school effects: sample size, student mobility and sample heterogeneity, The Research Foundation – Flanders (FWO) - Senior research projects fundamental research, <b>£181,000. Co-Supervisor (not costed).</b>
January 2022 – December 2025	Analysing Health Inequalities: Intersectional Multilevel Analyses of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA), Vetenskapsrådet (VR), Swedish Research Council, <b>£850,000. Co-Investigator (20% FTE).</b>
January 2022 – September 2023	Mapping intergenerational mobility as a post-degree outcome. <b>£88,604. Nuffield. Co-Investigator (10% FTE).</b>
September 2021 – August 2025	Strengthening schools to optimise adolescent mental health and mental wellbeing. <b>£2,912,278. MR/V049453/1. MRC Call for Research Programmes - Adolescence, Mental Health and the Developing Mind. Statistical Consultant (5% FTE Years 2-4).</b>
September 2020 – August 2023	Multilevel modelling of linked administrative datasets to inform university accountability, student choice and map social mobility. <b>£292,306. ESRC New Investigator. ES/V00235X/1. Co-Investigator (10% FTE).</b>
March 2020 – February 2022	Conceptualising and modelling educational trajectories and mobilities in neighbourhoods and schools. Nuffield Foundation. <b>£215,362. Co-Investigator (10% FTE).</b>
January 2019 – December 2021	Professional learning in early years evaluation (PLEYE). EEF. <b>£602,660. Statistical Consultant (costed for 5 days).</b>
October 2017 – September 2018	Sociology and Social Policy. Phillippe Leverhulme. <b>£100,000. Prize applicant.</b>
January 2017 – December 2019	Borrowing Strength - A Statistical Tool Kit for Small Area Estimation. ESRC. <b>£825,375. ES/P000940/1. Co-Investigator (10% FTE).</b>
October 2016 – September 2021	M2D2: Multilevel Modelling of Dyadic Data: New Methods, Software and Applications. <b>£1,475,057. ERC Starter Grant. Principal-Investigator (55% FTE).</b>

October 2014 – Centre for Market and Public Organisation (CMPO). **£5,101,741**. ESRC  
September 2019 Centres and Large Grants Outline Competition 2013-14. ES/L005964/1. **Co-  
Investigator (10% FTE)**.

October 2012 – GLOBAL GOOD : The Effectiveness of Good Policy and Good Governance:  
September 2017 A Global Analysis. ERC Synergy Grant. **£14,830,720**. **Co-Investigator (5%  
FTE)**.

**Consultancy:**

2022-23 Crime and Policing Analysis Unit, Home Office Science, £21,000, *Co-investigator*

2021 Crime and Policing Analysis Unit, Home Office Science, £41,500, *Co-investigator*

2017 Crime and Policing Analysis Unit, Home Office Science, £45,000, *Co-investigator*

2008-09 National Assessment Agency, *Co-investigator*



**Other grants and travel funds:**

2023-2027	ESRC ADR UK PhD Studentship at University of Bristol: Educational research using linked administrative data, £96,000
2018	School of Education Travel Fund, £1,500 per application
2016 - 2018	DfE National Pupil Database User Group, £5,000, <i>Co-organiser</i>
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 2029: Education Unit of Assessment: Candidate publications.**

- Prior, L, and **Leckie, G.** Student mobility: extent, impacts, and predictors of a range of movement types for secondary school students in England. *British Educational Research Journal*. *Forthcoming*. DOI: 10.1002/berj.3807.
- Heck, R., Reed, T., **Leckie, G.** (2022). Incorporating Student Mobility in Studying Academic Growth in Math: Comparing Several Alternative Multilevel Formulations. *School Effectiveness and School Improvement*. *Forthcoming*.
- Gallo Cordoba, B., **Leckie, G.**, Browne, W. J. (2022). Decomposing ethnic achievement gaps across multiple levels of analysis and for multiple ethnic groups: A mediation approach. *Sociological Methodology*. *Forthcoming*.
- French, R., Sariaslan, A., Larsson, H., Kneale, D. & **Leckie, G.** Estimating the importance of families in modeling educational achievement using linked Swedish administrative data. *Journal of Research on Educational Effectiveness*. *Forthcoming*.
- Leckie, G.** and Prior, L. A Comparison of Value-Added Models for School Accountability. *School Effectiveness and School Improvement*. DOI: 10.1080/09243453.2022.2032763. *Forthcoming*
- Prior, L., Jerrim, J., Thomson, D., **Leckie, G.** (2021). A review and evaluation of secondary school accountability in England: Statistical strengths, weaknesses, and challenges for 'Progress 8' raised by COVID-19. *Review of Education*. *Forthcoming*. DOI: <http://doi.org/10.1002/rev3.3299>.
- Prior, L. J., Goldstein, H., **Leckie, G.** School value-added models for multivariate academic and non-academic outcomes: Exploring implications for performance monitoring and accountability. *School Effectiveness and School Improvement*. *Forthcoming*. DOI: 10.1080/09243453.2021.1919719.

## **Research Excellence Framework 2021: Education Unit of Assessment: Publications**

UOB Education Unit of Assessment (UOA) was overall ranked second in the country in terms of outputs.

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 (11 on 13 point scale). This article was also submitted by University of Oxford – Education.*

**Leckie, G.**, Browne, W., Goldstein, H., Merlo, J., Austin, P. (2020). Partitioning variation in multilevel models for count data. *Psychological Methods*, 25(6):787-801. DOI: 10.1037/met0000265. *Scored 4\* in internal review (12 on 13 point scale).*

**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 4\* in internal review (11 on 13 point scale).*

**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 4\* in internal review. Winner of 2018 BERJ Editors’ Choice Award. Top 20 most read paper in British Educational Research Journal 2017-2018. Scored 4\* in internal review (11 on 13-point scale).*

**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. *Among the top 10% most downloaded papers published in 2018 and 2019. Scored 4\* in internal review (12 on 13-point scale).*

## **Research Excellence Framework 2021: Other Universities and Units of Assessments: Publications**

### **University of Bristol – Education**

**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 UOB internal review (12 on 13-point scale).*

### **University of Bristol - Geography and Environmental Studies.**

Zhang, N., Wang, W., Harris, R., & **Leckie, G.** (2020). Analysing inter-provincial urban migration flows in China: A new multilevel gravity model approach. *Migration Studies*, 8, 19-42. DOI: 10.1093/migration/mny026.

### **University of Oxford – Education**

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 UOB internal review (11 on 13-point scale).*

### **University of Southampton - Social Work and Social Policy**

Brunton-Smith, I., Sturgis, P., & **Leckie, G.** (2018). 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. *Top 20 most read paper in Criminology 2017-2018.*

### **The London School of Economics and Political Science - Mathematical Sciences**

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.

### **The London School of Economics and Political Science - Social Work and Social Policy**

Brunton-Smith, I., Sturgis, P., & **Leckie, G.** (2018). 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. *Top 20 most read paper in Criminology 2017-2018.*

### **The University of Bath - Psychology, Psychiatry and Neuroscience**

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.

### **The University of Essex - Public Health, Health Services and Primary Care**

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.

### **The University of Surrey - Sociology**

Brunton-Smith, I., Sturgis, P., & **Leckie, G.** (2018). 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. *Top 20 most read paper in Criminology 2017-2018.*

### **University of the West of England, Bristol - Allied Health Professions, Dentistry, Nursing and Pharmacy**

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.

**University of the West of England, Bristol - Social Work and Social Policy**

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.

**Research Excellence Framework 2021: Education and Mathematical Sciences Unit of Assessments (UoAs): Submitted 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 pieces of research (co-authored a fourth) and was involved in impact work leading to eight of the 10 sources to corroborate impact. Scored 4\* in faculty-level internal review. Scored 4\* in actual REF 2021 according to school-level internal review official results and feedback.*

**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 pieces of research and was involved in impact work leading to four of the 10 sources to corroborate impact. Scored 4\* in faculty-level internal review. Scored 4\* in actual REF 2021 according to school-level internal review official results and feedback.*

**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.

**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.

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: Other Universities and Units of Assessments:  
Publications**

**University of Bristol: Geography**

**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.

**University of Oxford: Education**

**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.



## **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 31/01/2023):**

Citations 4110

H-index 35

Articles 215

**Overton Impact metrics (at 12/12/2022):**

Documents	84 (26 in Key Sources)
Articles	19

### Articles in peer reviewed journals:

89. Melianova, E., Morris, T., **Leckie, G.**, Manley, D. Local Government Spending and Mental Health: Untangling the Impacts Using a Dynamic Modelling Approach. *Social Science and Medicine*. *Forthcoming*
88. Evans, C., **Leckie, G.**, Subramanian, S. V., Bell, A., Merlo, J. A Tutorial for Conducting Intersectional Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA). *SSM - Population Health*. *Forthcoming*.
87. **Leckie, G.** & Maragkou, K. (2024). Student Sociodemographic and School Type Differences in Teacher-Predicted vs. Achieved Grades for University Admission. *Higher Education*. *Forthcoming*. 10.1007/s10734-024-01217-x.
86. Mattsson, H., Gustafsson, J., Prada, S., Jaramillo-Otaya, L., **Leckie, G.**, Merlo, J., & Rodriguez-Lopez, R. Mapping socio-geographical disparities in the occurrence of teenage maternity in Colombia using multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA). *International Journal for Equity in Health*. *Forthcoming*.
85. Kent, H., Kirby, A., Hogarth, L., **Leckie, G.**, Cornish, R., & Williams, H. School to Prison Pipelines: Associations between school exclusion, neurodisability, and age at first conviction in male prisoners. *Forensic Science International: Mind and Law*. *Forthcoming*.
84. Purdam K., Tronsco, P., A Morales-Gomez, **Leckie, G.** Local Geographic Variations in Young Children's Primary School Readiness - A Multilevel Analysis of the Development Gaps in England. *Child Indicators Research*. *Forthcoming*.
83. **Leckie, G.**, Parker, R., Goldstein, H., & Tilling, K. Mixed-effects location scale models for joint modeling school value-added effects on the mean and variance of student achievement. *Journal of Educational and Behavioral Statistics*. *Forthcoming*.
82. Pillinger, R, Steele, F., **Leckie, G.**, & Jenkins, J. A dynamic social relations model for multi-group longitudinal dyadic data with continuous or ordinal responses. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*. *Forthcoming*.
81. Prior, L., & **Leckie, G.** School differences on whether and where students apply to university. *British Journal of Sociology of Education*, *Forthcoming*.  
<https://doi.org/10.1080/01425692.2023.2244177>.
80. Kent, H.; Kirby, A.; **Leckie, G.**; Cornish, R.; Hogarth, L.; & Williams, W. Looked after children in prison as adults: Life adversity and neurodisability. *Journal of Prisoner Health*. DOI: 10.1108/IJPH-08-2022-0051.
79. Rodriguez -Lopez, M., **Leckie, G.**, Kaufman, J. S., & Merlo, J. Multilevel modeling for measuring interaction of effects between multiple categorical variables: An illustrative application using risk factors for preeclampsia. *Paediatric and Perinatal Epidemiology*. DOI: 10.1111/ppe.12932. *Top 10% of papers published by downloads, among work published in journal during 2022, up to 12 months after publication*.
78. Prior, L, & **Leckie, G.** Student mobility: extent, impacts, and predictors of a range of movement types for secondary school students in England. *British Educational Research Journal*. *Forthcoming*. DOI: 10.1002/berj.3807.

77. Heck, R., Reed, T., & **Leckie, G.** (2022). Incorporating Student Mobility in Studying Academic Growth in Math: Comparing Several Alternative Multilevel Formulations. *School Effectiveness and School Improvement*, 33(4), 516-543.
76. Gallo Cordoba, B., **Leckie, G.**, & Browne, W. J. (2022). Decomposing ethnic achievement gaps across multiple levels of analysis and for multiple ethnic groups: A mediation approach. *Sociological Methodology*, 52(2), 162-192.
75. French, R., Sariaslan, A., Larsson, H., Kneale, D. & **Leckie, G.** Estimating the importance of families in modeling educational achievement using linked Swedish administrative data. *Journal of Research on Educational Effectiveness*. *Forthcoming*.
74. **Leckie, G.**, & Prior, L. (2022). A Comparison of Value-Added Models for School Accountability. *School Effectiveness and School Improvement*, 33(3), 431-455.. DOI: 10.1080/09243453.2022.2032763.
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### Articles under review in peer reviewed journals:

- Bell, A., Holman, D., Evans, C., **Leckie, G.** Extending intersectional Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA) for longitudinal data, with application to mental health trajectories in the UK. *Revise and resubmit.*
- Browne, W., J., Charlton, C., Price, T., Leckie, G., & Steele, F., Optimising the use of simulation methods in multilevel sample size calculations. *Revise and resubmit.*
- Evans, C., Borrell, L., N., Bell, A., Holman, D., Subramanian, S. V., **Leckie, G.** Clarifications on the MAIHDA Approach for Estimating Inequalities in an Intersectional Framework: A response to Wilkes and Karimi (2023). *Submitted.*
- Kent, H., Magner-Parsons, B., **Leckie, G.**, Dular, T., Lusiandari, A., Hogarth, L., Williams, H., & Kirby, A. Profiles of vulnerability for suicide and self-harm in UK prisoners: Neurodisability, mood disturbance, substance use, and bullying. *Revise and resubmit.*
- Merlo, J., Öberg, J., Khalaf, K., Perez Vicente, R., & **Leckie, G.** Geographic and sociodemographic differences in statin dispensation after acute myocardial infarction in Sweden — A register based prospective cohort study applying analysis of individual heterogeneity and discriminatory accuracy (AIHDA) for basic comparisons of healthcare performance. *Revised and resubmitted.*
- Prior, L., & **Leckie, G.** Student intersectional sociodemographic and school variation in GCSE final grades in England following COVID-19 examination cancellations. *Revise and resubmit.*
- Prior, L., Evans, C., Merlo, J., & **Leckie, G.** Sociodemographic inequalities in student achievement: An intersectional multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA). *Revise and resubmit.*

### Articles in preparation for peer reviewed journals:

Baker, W., Knight, C., & **Leckie, G.** Food banks in schools in England

Feldman Bright, Buckley, C., Purshouse, R., Holman, D. Kilian, C., Bell, A., **Leckie, G.**, Mulia, N.  
An intersectional analysis of alcohol consumption in the US: MAIHDA with a skewed outcome.

Kenny, D, Parker, R, & **Leckie, G.** Extended Social Relations Model.

Rodriguez, M., **Leckie, G.**, Merlo, J. Intersectional Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA) for ordinal outcomes, with application to low birthweight.

Sandhu, S., **Leckie, G.**, Tilling, K. & Hughes, R. Linear mixed-effects model selection: A comparison of information criteria with prediction criteria.

Sandhu, S., **Leckie, G.**, Tilling, K., & Hughes, R. Studying dynamics of mandibular growth spurt for individuals with Class I and Class II skeletal growth patterns: An application of the superimposition by translation and rotation (SITAR) model to longitudinal growth data.

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

- Evans, C., **Leckie, G.**, Subramanian, S. V., Bell, A., Merlo, J. A Tutorial for Conducting Intersectional Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA). *SocArXiv*. Since published in *SSM - Population Health*.
- Leckie, G.**, and Prior, L. (2021). A Comparison of Value-Added Models for School Accountability: arXiv: 2107.09410 [stat AP]. Since published in *School Effectiveness and Improvement*.
- Prior, L., Jerrim, J., Thomson, D., **Leckie, G.** (2021). A review and evaluation of secondary school accountability in England: Statistical strengths, weaknesses, and challenges for 'Progress 8'. arXiv:2104.06299 [stat.AP]. Since published in *Review of Education*.
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- 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 [stat AP]*. Since published in the *British Educational Research Journal*.
- 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*.
- Burton-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.,** & 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*.
- 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*.
- 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)*.
- 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*.

**Articles in working paper series prior to appearing in Encyclopaedias:**

**Leckie, G.** (2019). Cross-classified multilevel models, arXiv: 1907.02569 [stat ME]. *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 [stat ME]. *Since published in SAGE Research Methods Foundations series.*

**Leckie, G.** (2019). Multiple membership multilevel models, arXiv:1907.04148 [stat ME]. *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:

- Baker, W., Knight, C. & **Leckie, G.** Feeding Hungry Kids: Food Banks in Schools in England. Bristol Working Papers in Education Series. Bristol Working Papers in Education Series. Working Paper: 01/2024.
- Bell, A., Holman, D., Evans, C., **Leckie, G.** Extending intersectional Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy (MAIHDA) for longitudinal data, with application to mental health trajectories in the UK. SocArXiv.
- Leckie, G.**, & Maragkou, K. (n.d.). Student Sociodemographic and School Type Differences in Teacher-Predicted vs. Achieved Grades for University Admission. SocArXiv. Retrieved from [osf.io/preprints/socarxiv/u3mz9](https://osf.io/preprints/socarxiv/u3mz9).
- Leckie, G.**, & Maragkou, K. (2023). Student Sociodemographic and School Type Differences in Teacher-Predicted vs. Achieved Grades for University Admission. Bristol Working Papers in Education Series. Working Paper: 04/2023.
- Prior, L. & **Leckie, G.** (2023). An investigation of student intersectional sociodemographic and school variation in GCSE final grades in England in 2020. Bristol Working Papers in Education Series. Working Paper: 01/2023.
- Prior, L. & **Leckie, G.** (2023). School differences on whether and where students apply to university. Bristol Working Papers in Education Series. Working Paper: 01/2023.
- Prior, L., Evans, C., Merlo, J., **Leckie, G.** (2022). Sociodemographic inequalities in student achievement: an intersectional multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA) with application to students in London, England. arXiv:2211.06321 [cs.CY].
- Prior, L., Evans, C., Merlo, J., **Leckie, G.** (2022). Sociodemographic inequalities in student achievement: an intersectional multilevel analysis of individual heterogeneity and discriminatory accuracy (MAIHDA) with application to students in London, England. Bristol Working Papers in Education Series. Working Paper: 06/2022.
- Leckie, G.**, Parker, R., Goldstein, H., Tilling, K. (2021). Multilevel models with random residual variances for joint modelling school value-added effects on the mean and variance of student achievement: arXiv: 2110.02079 [stat AP].
- Goldstein, H., **Leckie, G.**, Prior, L. (2020). Providing educational accountability for Local Authorities based upon sampling pupils within schools: moving away from simplistic school league tables. arXiv:2002.09897 [stat AP].
- Koster, J., **Leckie, G.**, Aven, B., and Charlton, C. Methods and Software for the Multilevel Social Relations Model: A Tutorial, arXiv: 1907.13629 [stat AP].
- Kwong, A., Maddalena, J., Croft, J., Heron, J., and **Leckie, G.** (2019). Childhood Trauma and Trajectories of Depressive Symptoms Across Adolescence. medRxiv. DOI: <https://doi.org/10.1101/19002519>.
- Leckie, G.**, Prior, L., Goldstein, H. (2019). The implications of Labour's plan to scrap Key Stage 2 tests for Progress 8 and secondary school accountability in England. arXiv: 1911.06884 [stat AP].



## Research summaries in briefings, newsletters, blogs:

- Leckie, G.,** Prior, L. (2024). Progress 8 cannot be calculated for 2025 and 2026, and any proxy measure is likely to be a poor substitute. *Policy Briefing 144*: Feb 2024.
- Leckie, G. (2022).** A celebration of Harvey Goldstein's lifetime contributions: Memories of working with Harvey Goldstein on educational research and statistics. *Journal of the Royal Statistical Society Series A*, 185(3), 758-762.
- Leckie, G.,** and Goldstein, H. (2020). Progress 8 school league tables punish and reward the wrong schools. *BERA's Research Intelligence magazine*, 143.
- Harron, K., **Leckie, G.,** Browne, W., Carpenter, J., Steele, F., & Cole, T. (2020). Professor Harvey Goldstein at 80. *Significance*, 17(1), 41-41.
- Leckie, G.,** Prior, L., Goldstein, H. (2019). School accountability by Progress 8: A critique of Conservative and Labour proposals. SoE Blog post. 23/01/2020.
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- 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.
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- 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.
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- Leckie, G.,** & Goldstein, H. (2012). School league tables: Are they any good for choosing schools? *Graduate School of Education Research Briefing No. 3*.
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- 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.
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## **Book chapters:**

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- Leckie, G.** (2020). Multilevel Models for Continuous Responses. *SAGE Research Methods Foundations series*. DOI: 10.4135/9781526421036883656. *Invited flagship entry (10,000 words)*.
- Browne, D. T., **Leckie, G.**, & Jenkins, J. M. (2018). Understanding Couple and Family Dynamics Through Dyadic Methodology. In Fiese, B. H. (Ed.) *APA handbooks in psychology. APA Handbook of Contemporary Family Psychology: Foundations, methods, and contemporary issues across the lifespan*, American Psychological Association, Volume 1, Chapter 19, 335-352.
- 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 1507-1512.
- 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 4533-4537.
- 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.
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### **Statistical software packages:**

Charlton, C.M.J., Michaelides, D.T., Parker, R.M.A., Cameron, B., Szmaragd, 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.

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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., Szymaragd, 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., Szymaragd, 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 48<sup>th</sup> 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.

**Newsletter entries:**

**Leckie, G.** (2022). Professor George Leckie. SIG members in the spotlight. EARLI SIG 18 Educational Effectiveness and Improvement Newsletter. December 2022.

**Obituaries:**

**Leckie, G.** (2023) Harvey Goldstein. Oxford Dictionary of National Biography.

Browne, W., & **Leckie, G.** (2020). Obituary Harvey Goldstein, 1939-2020. *Journal of the Royal Statistical Society: Series A*

### **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](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](http://www.heacademy.ac.uk/assets/York/documents/ourwork/inclusion/ethnicity/EDA_Quantitative_Report_March08.pdf)

### **Online data visualizations:**

**Leckie, G.,** & Northern Powerhouse Partnership (2020). Fairer Secondary School League Table 2019.  
URL: [fairerschoolsindex.org](http://fairerschoolsindex.org)

**Leckie, G.,** & Northern Powerhouse Partnership (2019). Fairer Secondary School League Table 2018.  
URL:  
<https://www.arcgis.com/apps/webappviewer/index.html?id=495809156e7f425a845e112d3152e6ab>

**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:**

September 2023 - January 2023	UCAS <i>Expert advisor on multilevel analysis of UCAS data.</i>
April-July 2023	UCAS <i>Expert advisor on multilevel analysis of UCAS data.</i>
February 2023	UCAS <i>Expert advisor on multilevel analysis of UCAS data research report.</i>
May 2022	Home Office <i>Expert advisor on “Exploring the geospatial relationships of police investigation outcomes” research report.</i>
May 2022	Department for Education <i>Expert advisor on multilevel analysis presented in “Children’s social care: Drivers of Activity” research report.</i>
2020	Home Office <i>Expert advisor on multilevel analysis of rape offences.</i>
2017 - 2018	World Bank <i>Expert advisor on school value-added modelling project</i>
2016	RAND Europe <i>External reviewer for joint RAND and DfE project</i>
2015	RAND Europe <i>External reviewer for joint RAND and DfE project</i>
2015	Centre for Appearance Research at the University of the West of England <i>Statistical advisor on two randomised controlled trials</i>
2014	RAND Europe <i>External reviewer for joint RAND and DfE project</i>
2014	School of Business & Economics, Catholic University of Portugal <i>Expert advisor on multilevel modelling</i>
2013	The National Center for Educational Achievement (NCEA) / ACT testing company <i>Expert advisor and reviewer for value added models report</i>
2013	Pearson UK and Department of Education, University of Oxford <i>Expert advisor and reviewer for ‘Rater Effects – use of multilevel modelling to monitor raters’ project</i>
2012	Ofqual and Department of Education, University of Oxford <i>Stability of rater effects</i>
2009	Department of Health grant held by School of Education, University of Birmingham <i>Multilevel modelling of doctors’ interview scores</i>



- 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*

**Interviewed on radio:**

- 2023 BBC Radio 4 Analysis “What makes a good school?” Interviewed by Branwen Jeffreys. Other interviewees included Andreas Schleicher, Director for the Directorate of Education and Skills, OECD and founder of Programme for International Student Assessment (PISA) and Natalie Perera, chief executive of the Education Policy Institute. <https://www.bbc.co.uk/programmes/m001rgyw>
- 2019 Heart radio (pre-recorded interview)
- 2019 Love sport radio (live interview)
- 2019 BBC Radio 4 World at One (invited to live interview, declined as I was abroad).

**Other radio coverage:**

- |      |   |
|------|---|
| 2020 | Look North (Progress 8 research with Northern Powerhouse Partnership was discussed as a news item). |
| 2019 | Talk Radio (Lucy Powell MP discusses Progress 8 research)   |
| 2012 | BBC Radio 4 Analysis  |
| 2008 | BBC Radio 4 The Learning Curve  |



**Interviewed for newspaper coverage:**

November 2023    Interviewed by Chief Reporter Samantha Booth for Schools Week article.

October 2023    Interviewed by Grainne Hallahan for Times Educational Supplement (Tes) Magazine article.

## Newspaper coverage:

- 2024 Has Nick Gibb won the education battle  
<https://schoolsweek.co.uk/has-nick-gibb-won-the-education-battle/>
- 2024 Times Educational Supplement (Tes) Magazine: What: Is the end nigh for Progress 8- and if not, should it be  
<https://www.tes.com/magazine/analysis/general/the-end-of-progress-8>  
*Article followed telephone interview with journalist Grainne Hallaban.*
- 2023 Times Educational Supplement (Tes) Magazine: What schools need to know about the KS4 performance data  
<https://www.tes.com/magazine/analysis/secondary/ks4-performance-data-gcses-2023-analysis>  
*Article followed telephone interview with journalist Grainne Hallaban.*
- 2020 Northern Echo, Times Educational Supplement, Telegraph & Argos, Yorkshire Post
- 2019 Bristol Post, Daily Express, Financial Times, 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:**

- |      |  |
|------|--|
| 2019 | BBC website, Chronical Live, Ekklesia, FE news, 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:**

July 2021	DfE funded NPD User Group meeting (1 day), Online <i>Co-organiser with Dave Thomson</i>
January 2020	DfE funded NPD User Group meeting (1 day), London <i>Co-organiser with Dave Thomson</i>
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:

- September 2019 School accountability in crisis - holding the judges to account  
British Educational Research Association (BERA) 2019 Annual Conference  
*Joint coordinator with Terry Wrigley and Tom Perry*
- 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  
4<sup>th</sup> ESRC Research Methods Festival, Oxford  
*Coordinator and chair*

**Organised meetings and conference sessions:**

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 school-level seminars:**

- October 2022      Dennis Sherwood: ‘The Great Grading Scandal’  
Bristol Conversations in Education. School of Education, University of Bristol.  
*Organiser*
- November 2020    Frank Norris: ‘Why the Co-op is involved in the academy programme’  
Bristol Conversations in Education. School of Education, University of Bristol.  
*Organiser*
- November 2019    Andreas Soteriades: ‘An interactive pre-inspection tool for Further Education  
and Skills inspectors’  
Bristol Conversations in Education. School of Education, University of Bristol.  
*Organiser*
- 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*

**Organised CMM-level seminars:**

- October 2023      Dr Koen Aesaert, Tenure track Professor, Educational Effectiveness and Evaluation, Faculty of Psychology and Educational Sciences, KU Leuven. ‘The impact of measurement error in student prior achievement on predicted school effects in school value-added models’  
*Organiser*
- February 2023    Dr David Bartram, Associate Professor of Sociology, University of Leicester. ‘Inequality and life satisfaction: For a longitudinal analysis, what do we get by addressing multiple levels?’  
*Organiser*
- January 2022      Andy Bell, Sheffield Methods Institute

### Keynote conference presentations:

- April 2022 International Multilevel Modelling conference, Utrecht.
- October 2020 'Multilevel Modelling of longitudinal data'. Harvey Goldstein Memorial Lecture. 2020 SLLS conference. *Online as physical meeting in Vilnius cancelled due to COVID-19.*
- June 2020 International symposium on school value-added in Chile. Santiago. *Cancelled due to COVID-19.*
- 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.' 2<sup>nd</sup> 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:**

May 2024	UWE
December 2023	Methodological issues in epidemiology and population research, Lund University.
November 2023	Workshop on administrative data for public policy research GS5, Faculty of Education, University of Cambridge
June 2023	Advanced Quantitative Research in Education, Moray House School of Education and Sport, University of Edinburgh, Edinburgh.
May 2023	Education Policy Institute, London.
April 2023	Administrative data for education research: building bridges using the GRADE data sharing project, Royal Economics Society Annual Conference, Glasgow.
May 2022	KU Leuven
May 2021	Harvey Goldstein Memorial Talk, Royal Statistical Society, Online. <a href="https://www.youtube.com/watch?v=yrYcCCwMUvc">https://www.youtube.com/watch?v=yrYcCCwMUvc</a>
March 2021	Northern Powerhouse Partnership 'Education Data' Meeting, Online. Other speakers included Amanda Spielman, Chief Inspector, Ofsted and Dave Thomson, Chief Statistician, FFT.
June 2020	Lewisham. <i>Cancelled due to COVID-19.</i>
March 2020	Manchester. <i>To be rescheduled due to COVID-19.</i>
February 2020	Department of Statistics, York
January 2020	Wolverhampton
October 2019	Catherine Peckham Symposium/Otto Wolff Lecture 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
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 <sup>th</sup> 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<sup>th</sup> 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 3<sup>rd</sup> 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:**

November 2023	ADR UK Conference 2023, Birmingham
September 2022	EARLI Special Interest Group 18 Educational Effectiveness Conference, Freiburg
October 2020	Society for Longitudinal and Life Course Studies (SLLS). Vilnius. <i>Withdrew due to COVID-19.</i>
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	16 <sup>th</sup> 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:**

May 2024	CHET seminar, School of Education, University of Bristol
May 2024	SoE Research Celebration Event, School of Education, University of Bristol
July 2023	Centre for Multilevel Modelling session, Research Workshop, School of Education, University of Bristol
September 2017, 2018, 2019, 2020, 2021, 2022	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:**

- |               |  |
|---------------|--|
| April 2022    | Member of judging panel for Young Researcher's Award at the International Multilevel Modelling Conference, Utrecht 2022. |
| November 2019 | Workshop: Modelling Within-Individual (or Group) Variation – Developments & Applications, Bristol                        |
| 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     | 4 <sup>th</sup> ESRC Research Methods Festival, Oxford   |

**Conference session chair:**

November 2023    ADR UK Conference 2023 - Invitation to chair a parallel session. Declined.

## Videos and podcasts:

- 2020 Video recorded seminar  
'Harvey Goldstein memorial lecture: Multilevel modelling of longitudinal data'  
<https://www.youtube.com/watch?v=yrYcCCmMUvc>  
*Speaker*
- 2020 BERA Podcast recorded seminar  
'The importance of adjusting for pupil sociodemographics in Progress 8 and school accountability in England'  
<https://www.bera.ac.uk/media/a-study-of-progress-8-and-school-accountability-in-england>  
*Speaker*
- 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](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:**

May 2022	Associate Professor Koen Aesaert, Centre of Educational Effectiveness and Evaluation, KU Leuven (2 days)
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:**

October 2023	Tenure Track Professor Koen Aesaert, Centre of Educational Effectiveness and Evaluation, KU Leuven (1 week)
October 2023	Tom van Ransbeeck, Centre of Educational Effectiveness and Evaluation, KU Leuven (1 week)
September 2022	Dr Beatriz Gallo Cordoba, Research Fellow, Monash University (2 days) <i>Cancelled due to visa difficulties.</i>
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)



## **TEACHING**

### **International multilevel modelling workshops:**

- April 2024 Introduction to Multilevel Modelling Using Stata (2 days)  
SPHeRE PhD Programme in Population Health and Health Services Research  
(PHHSR)  
Royal College of Surgeons in Ireland (RCSE); Dublin, Ireland  
*Course Instructor*
- May 2023 Introduction to Multilevel Modelling Using MLwiN, R, or Stata (2 days)  
SPHeRE PhD Programme in Population Health and Health Services Research  
(PHHSR)  
Royal College of Surgeons in Ireland (RCSE); Dublin, Ireland  
*Course Instructor*
- March 2021 Introduction to Multilevel Modelling Using Stata (2 days)  
SPHeRE PhD Programme in Population Health and Health Services Research  
(PHHSR)  
Royal College of Surgeons in Ireland (RCSE); Dublin, Ireland  
*Course Instructor*
- 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)  
Unit for Social Epidemiology, Lund University, 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:

January 2024	UK Health Security Agency (2 days) <i>Course Instructor</i>
2023	Selected advanced topics in Multilevel Modelling Using R and Stata, Advanced Quantitative Research in Education, Moray House School of Education and Sport, University of Edinburgh
2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2021, 2022, 2023, 2024	Multilevel Modelling (2 days) Royal Statistical Society, London <i>Course Instructor with Harvey Goldstein (2008-2019) and William Browne (2021-)</i>
2021 (×2), 2022 (×2), 2023 (×2), 2024 (×2)	Introduction to Multilevel Modelling Using MLwiN, R, or Stata (3 days) University of Bristol <i>Course Instructor with William Browne</i>
2021	Introduction to Multilevel Modelling Using MLwiN, R, or Stata (3 days) Home Office, London <i>Course Instructor with William Browne</i>
2010, 2011, 2012, 2013, 2014, 2015, 2016 (×2), 2017 (×2), 2018 (×2), 2019 (×2), 2020	Introduction to Multilevel Modelling Using MLwiN (3 days) University of Bristol <i>Course Instructor with William Browne, Harvey Goldstein, Kehryn Jones, Fiona Steele, Richard Parker, and Rebecca Pillinger</i>
September 2015	Advanced multilevel modelling using Markov chain Monte Carlo (MCMC) ESRC National Centre for Research Methods (NCRM), University of Southampton (3 days) <i>Course Instructor with William Browne</i>
September 2014	eBook Writing in Stat-JR (2 days) University of Bristol <i>Teaching Assistant for William Browne</i>
July 2014	Modelling Longitudinal Data using the Stat-JR package (2 days) St Catherines College, University of Oxford <i>Course Instructor with William Browne</i>
2012, 2014	Advanced Multilevel Modelling Using Markov Chain Monte Carlo (MCMC) (3 days) University of Bristol <i>Course Instructor with William Browne, Paul Clarke, Harvey Goldstein, Kehryn Jones, Fiona Steele</i>

April 2013

Multilevel Modelling of Discrete Responses (3 days)

University of Bristol

*Course Instructor with William Browne, Kelynn 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*

## **LEMMA 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/>.

## **Other Multilevel modelling online training materials**

2021 ESRC NCRM online training materials: Professor William Browne, Professor George Leckie. (2021) Cross Classified Models. National Centre for Research Methods online learning resource. Available at <https://www.ncrm.ac.uk/resources/online/all/?main&id=20773>



## **PhD teaching:**

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

## **PhD students:**

- 25 2024-2028 Tomirs Gilazh  
ADRUK PhD Studentship  
Secondary data analysis of linked educational administrative data  
ESRC funded SWDTP Advanced Quantitative Methods Pathway student  
*First supervisor*
- 24 2023-2027 Adam Coates  
'A cognitive diagnostic investigation of inequality in mathematics mastery.'  
Department of Education, University of Bath  
ESRC funded SWDTP Advanced Quantitative Methods Pathway student  
*Second supervisor*
- 23 2023-2027 Diego Maury Romero  
'How can we teach tomorrow's adults the knowledge, skills, and attitudes needed to tackle global issues and intercultural situations? A Multilevel Modelling Secondary Data Analysis of PISA 2018 'Global Competence' Assessments'  
School of Education, University of Bristol  
ESRC funded SWDTP Advanced Quantitative Methods Pathway student  
*First supervisor*
- 22 2023-2027 Tom Van Ransbeeck  
'The role of sample characteristics in the stability of value-added estimates of school effects: sample size, student mobility and sample heterogeneity'  
*KU Leuven*  
*External supervisory committee member*
- 21 2023-2027 Rachael Wood  
School of Mathematics, University of Bristol  
*EPSRC CDT Compass student*  
*First supervisor but student changed projects and therefore supervisors prior to starting formally.*
- 20 2022-2026 Ainur Muratkyzy  
*SoE student*  
Kazakhstan scholarship  
*Second supervisor*
- 19 2021 – 2025 Ekaterina Melianova  
'Government Spending and the Two-Way Causation between Socioeconomic Status and Health in the UK: A Multilevel Structural Equations Modelling Approach'  
School of Geographical Sciences, University of Bristol  
*ESRC funded SWDTP Advanced Quantitative Methods Pathway student*  
*Second supervisor*
- 18 2021 – 2025 Shuxin (Serene) Liu  
'A Study of the Boundaries between the Roles and Responsibilities of Local Governments and the Private Sector in Public Service Systems for Preschool Education in China'  
*SoE student*  
*First supervisor*

- 17 2021 – 2025 Kyra Hidding  
 ‘The role of sample characteristics in the stability of value-added estimates of school effects: sample size, student mobility and sample heterogeneity’  
*KU Leuven*  
*External supervisory committee member.*  
*Student withdrew.*
- 16 2020 – 2024 Oby Bridget Azubuike  
 ‘Open to all, accessible by few: Access barriers to Higher Education (HE) in Nigeria and the role of parental perceptions of HE’  
 School of Education, University of Bristol  
*ESRC funded SWDTP Advanced Quantitative Methods Pathway student*  
*First supervisor*
- 15 2020 – 2024 Andrea Becsek  
 School of Mathematics, University of Bristol  
*EPSRC CDT Compass student*  
*Joint second supervisor*  
*Student withdrew.*
- 14 2020 – 2024 Hope Kent  
 School of Psychology, College of Life and Environmental Sciences  
 University of Exeter  
*ESRC funded SWDTP Advanced Quantitative Methods Pathway student*  
*Second supervisor*
- 13 2019 – 2023 Victoria Bowen  
 School of Education, University of Bristol  
*Second supervisor*
- 12 2019 – 2023 Megan Attwood  
 The Anxious Mind Under Threat - Examining the interplay between anxiety, working memory and emotion regulation as determinants of academic performance  
 School of Experimental Psychology, University of Bristol  
*ESRC funded SWDTP Psychology Pathway student*  
*Third supervisor on successful application but did not subsequently supervise the student.*
- 11 2018 – 2022 Rhiannon Moore  
 School of Education, University of Bristol  
*ESRC funded SWDTP Advanced Quantitative Methods Pathway student*  
*Second supervisor*
- 10 2017 – 2023 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*
- 9 2016 – 2019 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*

- 8 2016 – 2019 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*
- 7 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*
- 6 2015 – 2020 Merve Demiralp  
The C-test as a Second Language Proficiency Estimate and Screening Test in Turkish: An Argument-based Validation Study  
Graduate School of Education, University of Bristol  
*Funded by Turkish Ministry of Education*  
*Second supervisor*
- 5 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*
- 4 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*
- 3 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*
- 2 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*
- 1 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:**

- November 2021 Laura Zieger, UCL IOE  
'Essays on the psychometric and statistical properties of the Programme for International Student Assessment'
- 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 internal examiner:**

- Spring 2023      Jing Zhang, School of Education, University of Bristol  
‘China’s university English teachers’ language assessment literacy in the digital age’
- October 2022    Jeongeun Park, School of Education, University of Bristol  
‘A longitudinal examination of occupational aspirations in middle childhood and adolescence
- June 2019        Suh Keong Kwon, School of Education, University of Bristol  
‘The impact of visual cues on second language listening comprehension process and performance: An eye-tracking study’
- August 2016     Lei Zhang, Graduate School of Education, University of Bristol  
‘School and Teacher Effectiveness of Senior High Schools in Western China’

**PhD viva panels as independent chair:**

May 2021          Emily Eyles, School of Geographical Sciences, University of Bristol

December 2019    Emily Eyles, School of Geographical Sciences, University of Bristol



**PhD upgrade panels as external examiner:**

- April 2023 Jennifer Richardson, School of Geographical Sciences, Neag School of Education, University of Connecticut  
*Reader for dissertation proposal and attendee of proposal defence*
- March 2017 Amy Sweet, School of Geographical Sciences, University of Bristol  
*Second examiner*
- May 2014 Dillon Browne, Ontario Institute for Studies in Education, University of Toronto  
*Second examiner*

**PhD upgrade panels as internal examiner:**

March 2023	Chengcheng Ma, School of Education, University of Bristol <i>First examiner</i>
March 2019	Chengcheng Ma, School of Education, University of Bristol <i>First examiner</i>
January 2018	Merve Demiralp, School of Education, University of Bristol <i>First examiner</i>
May 2017	Duygu Cavda, Graduate School of Education, University of Bristol <i>Second examiner</i>
February 2017	Suh Keong Kwon, Graduate School of Education, University of Bristol <i>First examiner</i>
May 2014	Lei Zhang, Graduate School of Education, University of Bristol <i>Second examiner</i>
June 2012	Rebecca Pillinger, Graduate School of Education, University of Bristol <i>Second examiner</i>
November 2011	Toni Price, Graduate School of Education, University of Bristol <i>Second examiner</i>

**PhD annual progress meeting panel:**

- |                |   |
|----------------|---|
| April 2024     | Xiaohang Feng, School of Education, University of Bristol.<br><i>First examiner</i>                                   |
| August 2017    | Adrian Sayers, Musculoskeletal Research Unit, University of Bristol. External panel member.<br><i>Second examiner</i> |
| September 2015 | Adrian Sayers, Musculoskeletal Research Unit, University of Bristol. External panel member.<br><i>Second examiner</i> |
| August 2014    | Bobby Stuijtzand, School of Experimental Psychology, University of Bristol<br><i>Second examiner</i>                  |

**EdD viva panels as internal examiner:**

March 2020

Kim Ying Lim, School of Education, University of Bristol  
'A mixed methods approach to understanding the relationship between computing students' approaches to learning and academic performance for different entry pathways'

**EdD viva panels as independent chair:**

April 2023          Bonnie McGlynn, School of Education, University of Bristol

February 2022      Tim (Edgar) Chow, School of Education, University of Bristol

**EdD teaching:**

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

**EdD Hong Kong dissertation supervision:**

2020	Pui Shan (Carol) Sze <i>Second supervisor (Second supervisor: Bruce Macfarlane)</i>
2020	Gloria Tsz Yim Leung <i>Second supervisor (Second supervisor: William Browne)</i>
2017 – 2020	May Lo Chew Me <i>First supervisor (Second supervisor: Liz Washbrook)</i>
2017	Pui Shan (Carol) Sze <i>Brief period of first supervision before permanent supervisor could be found</i>

## MSc teaching:

May 2022	Educational Effectiveness (one lecture) KU Leuven Guest lecture
2016/17, 2017/18, 2018/19, 2019/20, 2020/21, 2021/22, 2022/23	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, 2019/20, 2020/21, 2021/22, 2022/23	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, 2006/07, 2007/08	MSc Introduction to Microeconomic Methods (5 one-hour tutorials) Department of Economics, University of Bristol <i>Unit tutor</i>
2005/06, 2006/07, 2007/08	MSc Quantitative Methods in Economics (10 one-hour tutorials repeated 3 times) Department of Economics, University of Bristol <i>Unit tutor</i>



**MSc dissertation supervision:**

2022/23	Diego Maury Romero, School of Geography, University of Bristol
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:**

2022/23	8 students
2021/22	9 students
2019/20	1 student
2017/18	19 students

## **ACADEMIC LEADERSHIP AND CITIZENSHIP**

### **External professional activities: International**

March 2024	Approach to collaborate with Education and Training Evaluation Commission (ETEC) in Saudi Arabia. <i>Declined.</i>
February 2024	Invited to join editorial board member at China Finance Review International. <i>Declined.</i>
February 2024	Invited to join editorial board member at Scientific Reports. <i>Declined.</i>
January 2024	Invitation to Participate in the QS Global Academic Survey: Invitation via nomination made by University of Auckland
December 2023	In-person meeting joint with Professor Sally Thomas with visiting academic Associate Professor Michiyo Nishino, Centre for Education in Liberal Arts and Sciences, Osaka Sangyo University, Japan
November 2023	Invited respondent to Times Higher Education's Global Academic Reputation Survey <i>selected based on record of research publication. Declined.</i>
June 2023	Invited to join editorial board as associate editor at Frontiers in Pediatrics. <i>Declined.</i>
May 2023	Invited to join editorial board at Future in Educational Research. <i>Declined.</i>
March 2023	Member of shortlisting and interview panels for PhD position on grant held by KU Leuven.
February 2023	Invited to join editorial board as associate editor at Frontiers in Public Health. <i>Declined.</i>
January 2023	Email discussion with Research Director EsadeEcPol Center for Economic Policy in Spain about school value-added analyses.
November 2022	Invited respondent to Times Higher Education's Global Academic Reputation Survey <i>selected based on record of research publication. Declined.</i>
October 2024 – September 2029	Methodological advisor on ERC Consolidator grant: Understanding Trajectories of Wealth Accumulation and Their Variability.
June 2022	One-to-one discussion with Dr Susana Claro, Education Quality Agency, Chile about the methodological design of the Chilean school performance tables and accountability system. <i>Cancelled.</i>
June 2019	One-to-one 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**

May 2024	Invitation to speak at “The Schools & Academies Show”, London ExCeL”. <i>Declined.</i>
April 2024	Invited research participant in a “School Accountability Study” by University of Sheffield.
February 2024	Invited steering group member of NIHR HSDR study. <i>Declined.</i>
February 2024	Discussion with Henri Murison, Director of Northern Powerhouse Partnership, Sarah Mulholland, and Frank Norris, advisor.
December 2023	Oral evidence quoted seven times in House of Lords Education for 11–16 Year Olds Committee Report of Session 2023–24 “Requires improvement: urgent change for 11–16 education”
December 2023	Invited member of ESRC ADR UK Fellowships funding panel
November 2023	Invited reviewer of ESRC ADR UK Fellowships proposals
October 2023	Advisor on ERC Starter grant application.
June 2023	Invited mentor on Laura Tinner Wellcome Trust Early Career Fellowship.
June 2023	Invited presentation of teacher predicted A-level grades research to UCAS
June 2023	Invited oral evidence given to House of Lords Committee on Education for 11 to 16 Year Olds with reference to Progress 8 accountability measure, its effectiveness, and implications to changes to it.
April 2023	Invited participant of UKRI ESRC Data Services of the Future workshop. <i>Declined due to other commitments.</i>
February 2023	Discussion with James Zuccolo at Education Policy Institute (EPI).
February 2023	ESRC ADR-UK NPD Training Consultation.
January 2023	Discussion with Carolyn Wong at UCAS.
January 2023	Invited written peer review comments on Department for Education methodological outline report
January 2023	Invited mentor on ESRC ADR-UK fellowship. <i>Declined due to other commitments.</i>
December 2022	Invited member of Scientific Committee for Office for National Statistics organised Conference on Administrative Data Research, on behalf of ADR UK. <i>Declined due to other commitments.</i>
November 2022	Invited attendee at "UK LLC Workshop - Understanding DWP, HMRC and National Pupil Database data requirements for the longitudinal community. <i>Declined due to other commitments.</i>

November 2022	Written response to ESRC request on guidance on potential training resources for applying to NPD
November 2022	ADR UK Showcase for Ambassadors, London
July 2022 –	ADR UK Ambassador <i>for increasing and improving the use of administrative data in academia for research to inform policy</i>
July 2022	Knowledge exchanged with Education Datalab
June 2022	Discussion with Andrew Boyle Director of Quantitative Research at AlphaPlus and Analysis and Ben Smith Senior Statistician at AlphaPlus about 2020 CAGs.
May 2022	Discussion with Alex Jones Ofsted Director for Insights and Research
May 2022	Discussion with Warwick Mansell around challenges of applying to use DfE NPD, access via ONS SRS, and delays to DfE NPD data release
April 2022	Meeting with UKRI ESRC, MoJ, DfE and academics about ‘Building admin data communities’
February 2022	Invited mentor on Fran Azpitarte ESRC SDAI grant proposal.
February 2022	Meeting with Office for Statistics Regulation (OSR) DfE to discuss “Assessment of Statistics on Key Stage 4 Performance produced by the Department for Education”
February 2022	Meeting with DfE to discuss the multilevel analysis presented in their “Children’s social care: Drivers of Activity” research report.
February 2022	Submitted statement to Education Policy Institute (EPI) consultation report “The Features of Effective School Groups: Measuring pupil inclusion at school-group level”
July 2021- December 2022	ESRC SDAI Project Advisory Board - Does father involvement increase children's Educational attainment at primary school?
April 2021	Invited observer at ADR UK ESRC programme ECHILD Government Stakeholder Meeting, <i>declined as too busy</i>
February 2021	Signatory to letter from Comprehensive Future, backed by 24 well-known academics and educationalists, calls for the grammar school entry test data to be “subjected to the same kind of scrutiny as every public exam”.
June 2020	Submitted written evidence to Education Select Committee on “Left behind white pupils from disadvantaged backgrounds”. <i>Published online September 2020 as LBP0008.</i>
April 2020	Round table discussion on Progress 8 with 15 others. <i>Via Zoom.</i>
April 2020	Submitted statement to Ofqual consultation on ‘GCSE and A level grading proposals for 2020’

2019 - 2021	Member of the WISERD Education Data Lab Steering Group
September 2019	Discussion with Sparx about research collaboration with CMM and potential co-funded PhD studentship
September 2019	Discussion with Ofsted about general research collaboration with UoB and potential PhD studentship
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
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 funding 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 funding 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
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):**

2023	Mentor on application for Wellcome Early-Career Award grant proposal. <i>In development.</i>
2021 –	Academic Integrity Network
2020	Peer reviewer for ESRC grant proposal for SSCM academic
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):**

2024	Member of the BPI Education and Inequalities Research Cluster
2023	Mentor on application for ERC Starter Grant proposal. <i>In development.</i>
2023	Mentor on application for ESRC New Investigator grant proposal.
2022	Member of plagiarism panel for PhD student in the faculty (external to SoE)
2022	Reviewer for ESRC Call to Use Secondary Data to Focus on Global South grant proposal
2022	UPER for ESRC grant proposal
2022	Mentor on application for Early Career Fellowship Leverhulme Trust
2021 –	Member of FSSL School Academic Integrity Officers meetings
2021	Member of plagiarism panel for PhD student in the faculty (external to SoE)
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
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):**

2024	Reviewer of an article for a candidate for the Professor of Social Psychology position
2023/24, 2022/23, 2021/22	Reviewer for annual Staff Review and Development meetings (×5 per year)
2023	Invited member of Special Advisory Group for Nuffield Trust grant led by Cathryn Knight.
2023	Interview panel member for Senior Lecturer in Education's (Digital Technologies) interviews <i>To be readvertised</i>
2023	Mentor on application for ESRC New Investigator grant application
2022	Halfway Initial Service Review for Senior Lecturer
2022	Reviewer for Nuffield grant proposal
2022	Reviewer of study leave applications
2022 –	Mentor to new Senior Lecturer
2021 – 2022	School Academic Integrity Officer
2021	Teaching observation to Pathway 3 staff member
2021	Reviewer for Turing Fellowship proposal
2021	Reviewer for ESRC SDAI grant proposal
2020	Reviewer for ESRC grant proposal Covid-19 open call
2020	Reviewer for ESRC grant proposal
2019	Reviewer for Turing Fellowship proposal
2019 – 2022	School exams officer
2019 – 2021	School plagiarism officer
2019	Member of interview panel for Administrative Staff member
2018	Reviewer for Turing Fellowship proposal
2018 – 2021	Member of the Athena Swan award Working Group
2017 –	MSc Education Pathway Coordinator
2017, 2019	Member of the PhD Annual Programme Review panel

2016	Member of the Finance and Funding Working Group
2015 – 2021	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):**

2023	Chair of interview panel for ESRC ADR UK PhD studentship
2019	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:**

Welcome Trust Early Career Fellowship, 2024

Economic and Social Research Council (ESRC): ADR-UK Fellowships, 2023 (×11)

Economic and Social Research Council (ESRC): New Investigator Grant, 2021

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





**Referee reports for academic promotion:**

Reference for a promotion to Full Professor application at University of Bath, 2023.

Reference for a promotion within the Full Professor scale at University of Southampton, 2023.

Reference for a promotion within the Full Professor scale at University of Southampton, 2022.

Reference for a promotion to Full Professor application at UCL IOE, 2022.

Reference for a promotion to Full Professor application at University of Manchester, 2021. *Declined due to COVID-19*

Reference for a promotion to Full Professor application at University of California, Davis, 2021

Reference for a promotion to Associate Professor application at University of Groningen, 2020

Reference for a promotion to Associate Professor application at UCL IOE, 2018

**Other referee reports:**

Personal references of former PhD students and post docs, 2011-

Book proposal review for Sage, 2019

Book proposal review for Elsevier / Academic Press, 2016

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):**

Workshop on Secondary Analysis of ILSA in Education. October 2022. One-day of four-day workshop.

Performing multivariate meta-analysis in Stata. Gabriela Ortez. April 2022. One-hour webinar.

Latent class analysis using Stata. Meghan Cain. April 2022. One-hour webinar.

Reproducible reporting—Creating customized reports in Word, Excel, and PDF. Gabriela Ortez. April 2022. One-hour webinar.

Machine Learning: Theory and Applications. Doug Steinley. May 2022. 5-day course online.

Applied Measurement Modeling. Patrick Curran & Greg Hancock. May 2022. 5-day course online.

Regression modeling for continuous, binary, and count outcomes. Chris. April 2022. One-hour webinar.

Working with epidemiologic data in Stata. Gabriela Ortez. April 2022. One-hour webinar.

Causal inference for complex observational data. April 2022. Chuck Huber. One-hour webinar.

Introduction to customizable estimation tables webinar. Chuck Huber. March 2022. One-hour webinar.

Bayesian multilevel modeling in Stata webinar. Meghan Cain. February 2022. One-hour webinar.

Bayesian analysis using Stata webinar. Chuck Huber. February 2022. One-hour webinar.

Introduction to survey statistics using Stata. Chuck Huber. February 2022. One-hour webinar.

Longitudinal Structural Equation Modeling. Patrick Curran and Dan Bauer. Online. June 7-11 2021. 5-day course online.

Latent class analysis in Stata. Meghan Cain. 18 May, 2021. One-hour webinar.

Customizable Tables With Stata 17. Chuck Huber. 11 May, 2021. One-hour webinar.

Mediation and Moderation in Stata. Meghan Cain. 23 February, 2021. One-hour webinar.

Multilevel Modeling. Patrick Curran and Dan Bauer. Online. 8-12 June 2020. 5-day course online.

An Introduction to Machine Learning using Stata. Online. 1-2 June 2020.

Structural Equation Modelling. Patrick Curran and Dan Bauer. Online. May 6-8 2020. 3-day course online.

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:**

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 William Browne  
Professor of Statistics  
Centre for Multilevel Modelling  
School of Education  
University of Bristol  
United Kingdom  
william.browne@bristol.ac.uk

Professor Fiona Steele FBA OBE  
Professor of Statistics  
Department of Statistics,  
LSE  
United Kingdom  
f.a.steele@lse.ac.uk

Professor Patrick Sturgis  
Professor of Quantitative Social Science  
Department of Methodology  
LSE  
United Kingdom  
p.sturgis@lse.ac.uk

Professor Anna Vignoles FBA  
Professor of Education  
University of Cambridge  
United Kingdom  
av404@cam.ac.uk