

CALUM WEBB

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METHODS TRAINING/SKILLS

General Linear Regression Models
Mediation and Moderation Analysis
Factor Analysis
Statistical Reliability & Validity Testing
Measurement Invariance Testing
Structural Equation Modelling
Latent Growth Curve Modelling
Cluster Analysis
Multilevel Modelling
Advanced Spatial Regression Analysis
Multiple Imputation Methods for Missing Data
Social Network Analysis
Iterative Mixed Methods Design
Mixed Methods Case Study Design
Coproduct and Participatory Research Design
Research Ethics and Integrity

PROGRAMMING

5 Years Experience in **R**
6 Years Experience in **Mplus**
7 Years Experience in **SPSS**
6 Years Experience in **STATA**

CITATION STATISTICS

Number of publications: 18
(2 forthcoming)
Citations since 2018: 133
h-index: 5
i10-index: 3

SELECT PUBLICATION

Webb, C. & Bywaters, P. (2018)
Austerity, rationing and inequity: trends
in children's & young peoples' services
expenditure in England between 2010
and 2015. *Local Government
Studies*.

Sociologist and data scientist working in the field of poverty and child welfare inequalities. I co-founded the AI in Housing, Welfare, and Social Care network at the University of Sheffield and am now starting a programme of work with public sector and industry partners looking at the procurement, commissioning, co/production, and use of predictive analytics and 'AI' in social work.

I teach many of the statistics and quantitative methods that are used in research from a critical sociological and social policy perspective. I specialise in research using advanced quantitative methods, integrated mixed methods, and coproduction, but I also build data insight apps for research, impact and communication. I'm most interested in coproduced & participatory quantitative research as an emerging field.

EDUCATION

The University of Sheffield Oct. 2015 - Jul. 2019
PhD Sociology

Thesis: Constructing a reliable and valid measure of multidimensional poverty.
Awarded without corrections. ESRC White Rose Scholarship.

The University of Sheffield Oct. 2014 - Oct 2015
MA Social Research Methods
Distinction

Dissertation: Children's outcomes and labour market activation: the potential of structural equation modelling and multivariate statistics for evidence based policy making. ESRC White Rose Scholarship.

The University of Sheffield Oct. 2011 - Sept. 2014
BA(Hons) Sociology
First Class

RELEVANT EMPLOYMENT

The University of Sheffield Feb 2015 - Present
Research Associate & University Teacher

- Co-founded the Artificial Intelligence in Housing, Welfare, and Social Care Network (ai-hows.sheffield.ac.uk).
- Published journal articles in high impact journals, with one article (Webb & Bywaters 2018) being in the top 1% of articles shared online.
- Impact case study co-author.
- Developed the Child Welfare Inequalities Project App (www.cwip-app.co.uk) and the Mapping Overlaps Gadget (<https://webb.shinyapps.io/MappingOverlapsGadget/>) to consolidate and visualise local data.
- Worked in partnership with Sheffield City Council using national survey data to develop a policy learning tool for anti-poverty policy design.
- Led analysis of children's services expenditure data in England and quantitative mixed methods lead for English case studies on the £0.55million Nuffield Foundation funded research project.
- Led analysis of survey data for the Family Rights Group's Care Crisis Review.
- Consultant methodologist for £0.26million research project analysing systemic drivers of demand in child protection.
- Developed the Anti-Poverty Practice Guide for Social Work with the British Association of Social Workers.

FUNDING AWARDS & PROJECTS

2019

Knowledge Exchange, the University of Sheffield
 AI in Housing, Welfare, and Social Care Extending
 Participation Funding
 £1,470 PI

iHuman, Sheffield
 Shaping the next generation of AI-enhanced social
 housing and social care systems (seed funding)
 £4,800 Co-I

The University of Sheffield Higher Education Impact
 Fund
 The Child Welfare Inequalities Project App (CWIP
 App)
 £9,981 PI

Sheffield University Students' Union
 Understanding the needs of Chinese students on
 postgraduate taught programmes
 £1,000 PI

Nuffield Foundation (Supplementary Grant)
 Re-analysing the CWIP quantitative data set using
 multilevel modelling
 £35,400 Co-I

2018

Crook Public Service Fellowship
 Care Proceedings in England: The Case for Clear
 Blue Water
 RA

Nuffield Foundation
 Care Crisis Review
 RA

Nuffield Foundation
 Identifying and understanding the link between
 system conditions and welfare inequalities in
 statutory children's social care services
 £263,652 Consultant

2015

Innovation, Impact and Knowledge Exchange (IIKE)
 Collaborative R&D Award
 Developing a policy learning tool for anti-poverty
 policy design and assessment.
 £12,722 Co-I, RA

Nuffield Foundation
 Identifying and Understanding Inequalities in Child
 Welfare Intervention Rates (Child Welfare
 Inequalities Project)
 £557,705 RA

2014

ESRC 1+3 White Rose DTC PhD Scholarship
 Constructing a Valid and Reliable Multidimensional
 Measure of Poverty
 PI

VOLUNTEER WORK

City of Sanctuary
 Feb 2015 - Present

Database Developer and Analyst

Responsible for the creation, maintenance, and analysis
 of a database of refugee support service data collected
 by City of Sanctuary in Sheffield, which manages more
 than 1,000 service user records across eight services.

TEACHING (AFHEA)

2019-2020 The University of Sheffield

Module Convener
 Quantitative Research and Fundamental Statistics
 (MSc)

2018-2019 The University of Sheffield

Module Convener
 How to Lie with Statistics (Level 3, BA)
 Module Convener
 Statistics for Occupational Psychologists (MSc)

2017-2018 The University of Sheffield

Module Convener
 How to Lie with Statistics (Level 3, BA)
 Teacher
 Doing Quantitative Social Research (Level 2, BA)
 Teacher
 Introduction to Quantitative Research (MA)

RECENT CONFERENCE PAPERS

2019

Research in Practice: Link Officer's Annual Meeting
 2019
 The Child Welfare Inequalities App.

European Conference for Social Work Research
 2019

Does social work reinforce inequalities? Findings
 from the Child Welfare Inequalities Project.

2017

Sociological Studies Annual Postgraduate Research
 Conference: Branching Out.
 Presenter: 'Where the Axe Falls: Trends in Children's
 and Young Peoples' Services Expenditure in
 Austerity'.

2016

Sociological Studies PGR Annual Conference:
 Breaking Boundaries.
 Researching concepts quantitatively: The use of
 latent variable modelling for measuring
 multidimensional poverty.

Leeds Centre for Interdisciplinary Childhood & Youth
 Research (LCYR): Child and Youth poverty: contexts,
 concepts and consequences
 Complex Inequality & Education Policy: The case of
 the 'North-South divide' in School Results in
 England.

PUBLICATIONS

2019

BASW & CWIP (**Webb, C.**, Boahen, G. & Morris, K.). (2019) The Anti-Poverty Practice Guide for Social Work. British Association of Social Workers. 4th September 2019. <https://www.basw.co.uk/what-we-do/policy-and-research/anti-poverty-practice-guide-social-work>

Webb, C. & Thomas, R. (2019) The Child Welfare Inequalities App. www.cwip-app.co.uk

Mason, W., Morris, K., **Webb, C.**, Daniels, B., Featherstone, B., Bywaters, P., Mirza, N., Hooper, J., Brady, G., Bunting, L., Scourfield, J. (2019). Investigating child welfare inequalities: a multisite mixed methods case study. Journal of Mixed Methods Research. <https://doi.org/10.1177/1558689819857972>

Sen, R., **Webb, C.** (2019) Exploring the potential of Restorative Practice and FGCs to reduce rates of social work intervention. Children and Youth Services Review. 106, 104458 <https://doi.org/10.1016/j.childyouth.2019.104458>

Webb, C. (2019) The Troubled Families Programme: What kinds of projects does DCLG policy incentivise? Unpublished Confidential Briefing Paper.

2018

Bywaters, P., Scourfield, J., **Webb, C.**, Morris, K., Featherstone, B., Brady, G., Jones, C., Sparks, T. (2018) Paradoxical evidence on ethnic inequities in child welfare: Towards a research agenda. Children and Youth Services Review. <https://doi.org/10.1016/j.childyouth.2018.11.042>

Trowler, I., supported by White, S., **Webb, C.**, Leigh, J. T. (2018) Care Proceedings in England: The Case for Clear Blue Water. The University of Sheffield, Crook Public Service Fellowship.

Webb, C., Heneghan, M., Sehmar, P., Morris, K. (2018) Care Crisis Review: Professionals survey results. Family Rights Group.

Webb, C., Heneghan, M., Sehmar, P., Morris, K. (2018) Care Crisis Review: Care-experienced young people and adults survey results. Family Rights Group.

Webb, C., Heneghan, M., Sehmar, P., Morris, K. (2018) Care Crisis Review: Family survey results. Family Rights Group.

Sen, R., Morris, K., Burford, G., Featherstone, B., & **Webb, C.** (2018) 'When you're sitting in the room with two people one of whom... has bashed the hell out of the other': Possibilities and challenges in the use of FGCs and restorative approaches following domestic violence. Children and Youth Services Review. <https://doi.org/10.1016/j.childyouth.2018.03.027>

Webb, C. & Bywaters, P. (2018) Children's Services Spending: Where has the axe fallen? INLOGOV Blog. <https://inlogov.com/2018/02/07/childrens-services-spending-where-has-the-axe-fallen/>

Bywaters, P. & **Webb, C.** (2018) There is clear evidence that links deprivation, expenditure and quality in children's services. Community Care. <http://www.communitycare.co.uk/2018/02/07/clear-evidence-links-deprivation-expenditure-quality-childrens-services/>

Webb, C. & Bywaters, P. (2018) Austerity, rationing and inequity: trends in children's & young peoples' services expenditure in England between 2010 and 2015. Local Government Studies. <https://doi.org/10.1080/03003930.2018.1430028>

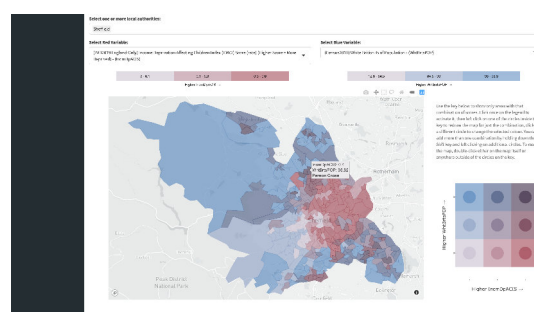
Morris, K., Mason, W., Bywaters, P., Featherstone, B., Daniel, B., Brady, G., Bunting, L., Hooper, J., Mirza, N., Scourfield, J., **Webb, C.** (2018). Social work, poverty, and child welfare interventions. Child & Family Social Work. <https://doi.org/10.1111/cfs.12423>

Mason, W., Mirza, N., & **Webb, C.** (2018) Using the Framework Method to Analyze Mixed-Methods Case Studies. SAGE Research Methods Cases. <https://dx.doi.org/10.4135/9781526438683>

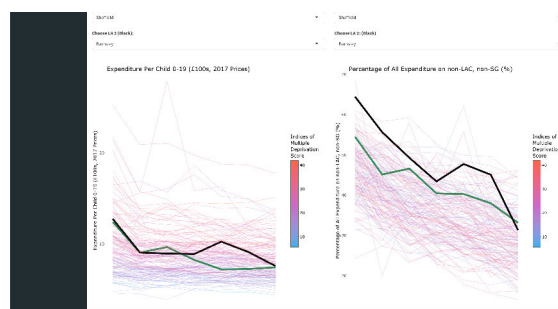
2017

Bywaters, P., Brady, G., Bunting, L., Daniel, B., Featherstone, B., Jones, C., Morris, K., Scourfield, J., Sparks, T., **Webb, C.** (2017). Inequalities in English child protection practice under austerity: A universal challenge? Child & Family Social Work. <https://doi.org/10.1111/cfs.12383>

Bywaters, P., **Webb, C.**, & Sparks, T. (2017). Ofsted ratings do reflect local authority deprivation and spending. Community Care. <http://www.communitycare.co.uk/2017/01/18/ofsted-ratings-reflect-local-authority-deprivation-spending/>



The Mapping Overlaps Gadget (MOG) 2020
<https://webb.shinyapps.io/MappingOverlapsGadget/>



The Child Welfare Inequalities Project App 2019
<https://www.cwip-app.co.uk>