

# Charles Rahal

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## Summary

I am an Associate Professor in Data Science and Informatics at the University of Oxford, where I work with colleagues at the Demographic Science Unit (and form part of the Senior Management Board). I am a Co-Investigator at the ESRC funded Centre for Care. I act as the Local Network Lead Co-ordinator for the UK Reproducibility Network (as part of the steering of Reproducible Research Oxford), and I previously sat on the University's senior Research Practice Group in this capacity. I am also currently an Honorary Visiting Professor at Peking University. I was previously both a British Academy Postdoctoral Fellow, as well as a Sino-British Visiting Fellow at the University of Hong Kong. I sit on the steering committee of the new Masters in Public Health, and I am also a Researcher at the Gradel Institute of Charity (New College), and a former Non-Stipendiary Fellow (and current Associate Member) at Nuffield College. I provide pro-bono consultancy to the Office for National Statistics, and consult formally as a Research Software Engineer for the Banco de la República. I sit on the admissions committee for the DPhil in Population Health. I previously sat on the admissions committee for MPhil and DPhil candidates in

the Department of Sociology, as well as on the Steering Group there (where I also retain Associate Membership). I also lead the [Metrics and Models](#) research lab and seminar series. I edit the Journal of Social Computing (A-EIC) and ACM Transactions in Social Computing (AE). My training includes degrees, diplomas, and certificates in Computational Econometrics, Economics, Advanced Research Methods, and Investment and Finance. My research mostly focuses on methodological innovations which uncover patterns in large-scale observational data. Methodologically, I am especially interested in model uncertainty, and – naturally – research software/computational methods development. I am motivated by a desire to improve policies and public administration. I have been involved in a large number of successful funding applications (totalling around £12m), and have published in many of the world's leading journals. I predominantly work in Python, Bash and TeX, and take great pride in being able to generate policy impact – having won awards and commendations for contributions to the UK government Covid-19 policy response – all through open, reproducible, and responsible research.

## Academic Positions Held

<b>Peking University:</b> Honorary Visiting Professor (Institute of Population Research)	09/2025- 09/2030
<b>University of Oxford:</b> Researcher at the Gradel Institute of Charity	02/2025-Present
<b>University of Oxford:</b> Associate Member of the Department of Sociology	10/2024-Present
<b>University of Oxford:</b> Associate Professor (Oxford Population Health)	04/2024-Present
<b>Public Knowledge Project:</b> Honorary Academic Associate	12/2023-Present
<b>University of Oxford:</b> Senior Departmental Research Lecturer (Department of Sociology)	09/2022-04/2024
<b>University of Oxford:</b> Associate Member, Nuffield College	01/2021-Present
<b>University of Oxford:</b> Departmental Research Lecturer (Department of Sociology)	09/2019-08/2022
<b>University of Oxford:</b> British Academy Postdoctoral Fellow (Department of Sociology)	01/2018-12/2020
<b>University of Oxford:</b> Non-Stipendiary Research Fellow, Nuffield College	07/2017-12/2020
<b>University of Oxford:</b> Postdoctoral Research Fellow in Data Science and Informatics	07/2016-12/2017
<b>University of Birmingham:</b> Research Fellow (Social Policy)	08/2015-07/2016
<b>University of Birmingham:</b> Visiting Lecturer (Economics and Econometrics)	06/2013-03/2019

## Education

PhD in Computational Econometrics <b>University of Birmingham</b>	BIRMINGHAM, UK. 2011-2016
<ul style="list-style-type: none"><li>• Core courses: Advanced Econometrics, Advanced Microeconomics, Advanced Macroeconomics.</li><li>• Thesis title: 'Computational Econometrics with Applications to Housing Markets'.</li><li>• Visiting PhD student in Agent Based Computational Economics (University of Essex).</li><li>• Examiners: Professor Stephen Hall (external) and Professor Anindya Banerjee (internal).</li></ul>	
Postgraduate Certificate in Advanced Research Methods <b>University of Birmingham (Distinction)</b>	BIRMINGHAM, UK 2014-2015
MSc Economics <b>University of Birmingham (Distinction)</b>	BIRMINGHAM, UK 2010-2011
Graduate Diploma in Economics <b>University of Birmingham (Distinction)</b>	BIRMINGHAM, UK 2008-2009
BSc Investment and Finance <b>University of Reading (First Class Hons)</b>	READING, UK 2005-2008

## Peer Reviewed Academic Articles

1. Valdenegro Ibarra, D., Dai, D., Yan, J., and Rahal, C. (2025), 'Introducing RobustiPy: An efficient next generation multiversal library with model selection, averaging, resampling, and explainable artificial intelligence'. Conditionally Accepted at *Patterns*. *arXiv* version: [2506.19958](https://arxiv.org/abs/2506.19958).
2. Zhang, L., Rahal, C. et al. (2026), 'Evaluating Model Predictive Performance in Confirmatory Factor Analysis with Binary Outcomes Using the InterModel Vigorish', *Multivariate Behavioural Research*, forthcoming. *PsyArXiv* version: [osf.io/tv9bd](https://osf.io/tv9bd).
3. Yan, J. and Rahal, C. (2025), 'On the Unknowable Limits to Prediction in Social Systems', *Nature Computational Science*, DOI: [10.1038/s43588-025-00776-y](https://doi.org/10.1038/s43588-025-00776-y). pp. 1-3. *arXiv* version: [arxiv.org/abs/2411.19223](https://arxiv.org/abs/2411.19223).
4. Muggleton, N., Rahal, C., and Reeves, A., (2025), 'Capitalising on a Crisis: A computational analysis of corporate elites across all 5 million British firms'. *Journal of Computational Social Science*, 8(2), pp. 1-29. *arXiv* version: [arxiv.org/abs/2502.09383](https://arxiv.org/abs/2502.09383).
5. Domingue, B., Rahal, C. [et al.], (2025), 'InterModel Vigorish (IMV): A novel approach for quantifying the predictive accuracy of binary outcomes', *Plos One*, *arXiv* version: [doi.org/10.31235/osf.io/gu3ap](https://doi.org/10.31235/osf.io/gu3ap).
6. Rahal, C. and Mohan, J., (2024), 'The Role of the Third Sector in Public Health Provision: Evidence from 25,338 heterogenous procurement datasets', *Journal of the Royal Statistical Society, Series A*, pp.1-22. *SocArXiv* version: [doi.org/10.31235/osf.io/t4x52](https://doi.org/10.31235/osf.io/t4x52).
7. Domingue, B. [et al, including Rahal, C.] (2024), 'The InterModel Vigorish as a lens for understanding (and quantifying) the value of item response models for dichotomously coded items', *Psychometrika*, pp.1-21. *PsyArXiv* version: [doi.org/10.31234/osf.io/q3djt](https://doi.org/10.31234/osf.io/q3djt).
8. Newman, S.J., Schulte, K., Morellini, M.M., Rahal, C., and Leasure, D., (2024), 'Offshoring Emissions through Used Vehicle Exports', *Nature Climate Change*, 14(3), pp. 1-4. *arXiv* version: [arxiv.org/abs/2402.13807](https://arxiv.org/abs/2402.13807)
9. Rahal, C., Verhagen, M., and Kirk, D., (2022), 'The Rise of Machine Learning in the Academic Social Sciences', *AI & Society*, pp. 1-3. *SocARxiv* version: [osf.io/gydve](https://osf.io/gydve).
10. Aburto, JM. [et al, including Rahal, C.], (2022), 'Quantifying impacts of the COVID-19 pandemic through life expectancy losses: A population-level study of 29 countries', *International Journal of Epidemiology*, 51 (1), pp. 63-74. *medRxiv* version: [10.1101/2021.03.02.21252772v5](https://doi.org/10.1101/2021.03.02.21252772v5).
11. Mills, M. C. and Rahal, C., (2021), 'Population Studies at 75 Years: A scientometric review', *Population Studies*, 7, pp. 7-25. *OSF* version: [ehy3w\\_v1](https://osf.io/ehy3w_v1).
12. Block, P. [et al, including Rahal, C.], (2020), 'Social network-based distancing strategies to flatten the Covid-19 curve in a post-lockdown world', *Nature Human Behaviour*, 4, pp. 588-596. *arXiv* version [2004.07052](https://arxiv.org/abs/2004.07052).
13. Mills, M. C. and Rahal, C., (2020), 'The GWAS Diversity Monitor tracks diversity by disease in real time', *Nature Genetics*, 52 (3), pp. 242-243. Impact Factor: 41.38. Accompanying dashboard: [gwasdiversitymonitor.com](https://gwasdiversitymonitor.com).
14. Rahal, C., (2019), 'Tools for Transparency in Central Government Spending', *International Journal of Population Data Science*, 4 (4), pp. 1-9. *SocArXiv* version: [9c7m2](https://osf.io/9c7m2).
15. Mills, M. C. and Rahal, C., (2019) 'The Scientometrics of Genome Wide Association Studies', *Communications Biology*, 2 (3), pp. 1-13. Citation Count: 391.
16. Rahal, C., (2018), 'The Keys to Unlocking Public Payments Data', *Kyklos*, 71 (2), pp. 310-337.
17. Reeves, A., Friedman, S., Rahal, C. and Flemmen, M., (2017), 'The Decline and Persistence of the Old Boy: Private Schools and Elite Recruitment 1897 to 2016', *American Sociological Review*, 82 (6), pp. 1139-1166. Awarded 2018 Prize for Best Article, European Academy of Sociology. *OSF* version: [y54cd\\_v1](https://osf.io/y54cd_v1).
18. Tropf, F. [et al, including Rahal, C.], (2017), 'Hidden Heritability due to Heterogeneity Across Seven Populations', *Nature Human Behaviour*, 1 (10), pp. 757-765. Impact Factor: 29.9.
19. Rahal, C., (2016), 'Housing Markets and Unconventional Monetary Policy', *Journal of Housing Economics*, 32, pp. 67-80.
20. Rahal, C., (2015), 'A Guide to the StatFact EViews Add-in', *Computational Economics*, 48 (1) pp.1-6.

## Invitations to Resubmit

21. Rahal, C., Knight, J., L'Esperance, V., Mills, M., and Clarke, P. (2025), 'Voting Patterns, Mortality, and Health Inequalities in England: A replication and extension of Smith and Dorling (1996)'. Revisions requested at *BMJ Public Health*. Preprint available on *medRxiv*: <https://doi.org/10.1101/2024.06.26.24309517>.

## In Progress

22. Rahal, C. and Yan, J. (2026), 'The Rise of the Machines'. In Progress.
23. Rahal, C. [et al.], (2025), 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research'. Extended abstract available on request, replication materials at [github.com/crahal/seeds](https://github.com/crahal/seeds).
24. Muggleton, N., Reeves, A., Rahal, C. [et al.], (2025), 'Health by Wealth: An analysis of 19m probate records in the United Kingdom, 1855-1992'. Pre-submission approval at *Nature*.
25. Wang, P., Rahal, C., [et al.], (2025), 'The InterModel Vigorish for Machine and Deep Learning', in progress for conference proceedings.
26. Willinsky, J. [et al, including Rahal, C.], (2024), 'Representation of and Networks within Open Journal Systems in the Global South', Public Knowledge Project collaboration.
27. Valdenegro, D., Petrillo, M., Rahal, C. [et al.], (2024), 'The Cost of Care: Estimating structural inequalities in the cost of providing unpaid social care'. Under review at *Health Economics*. *arXiv* version: 2411.10314.
28. Rahal, C. [et al.], (2024), 'GWAS Diversity by Funder'.
29. Kanopka, K. [et al., including Rahal, C.], (2023), 'Bookmaking for Categorical Responses: Extending the InterModel Vigorish to Quantify the Performance of Polytomous Item Response Models'. Available on request.
30. Newman, S. J., Rahal, C. [et al.], (2023), 'Inequatlities in the Creation of Air Pollution: Observational evidence from 392m emissions tests'. In preparation.
31. Chasalow, K., Rahal, C., Verhagen, M., and Mills, M.C., (2022), 'The Anatomy of Interdisciplinarity'. In progress.
32. Rahal, C., Reeves, A., and Tropf, F., (2020), 'The Legacy of Longevity: Persistent inequalities in UK life expectancy 1500-2016'. In progress.
33. Rahal, C. (2019), 'A Grid Based Approach to Analysing Spatial Weighting Matrix Specification', *SocArXiv*, [doi.org/10.31235/osf.io/nt2yq](https://doi.org/10.31235/osf.io/nt2yq).
34. Rahal, C. and Barassi, M., (2017), 'Random Factor Composition and Diffusion Index Forecast Performance'. Available on request.

## Selected High Profile Policy Work

35. Wagner, S., Rahal, C. [et al.], (2024), 'The SHAPE of Impact', *British Academy* and the *Academy of Social Sciences*. ISBN: 978-0-85672-686-6, pp. 1-104.
36. Bezuidenhout, L. [et al, including Rahal, C.], (2021), 'An Inquiry into Reproducibility and Research Integrity: Written Evidence', Response submitted to the *House of Commons Science and Technology Committee*, pp. 1-13.
37. Mills, M.C., Akimova, E. and Rahal, C., (2020), 'Face masks and coverings for the general public: Behavioural knowledge, effectiveness of cloth coverings and public messaging', *Royal Society SET-C/British Academy*, pp. 1-27.
38. Mills, M.C., Rahal, C., Brazel, D., Yan, J., and Gieysztor, S. (2021), 'COVID-19 vaccine deployment: behaviour, ethics, misinformation and policy strategies', *Royal Society SET-C/British Academy*, pp.1-35.

## Selected Funding Awards

- '20 Years of the UK-Biobank' (Co-I with Prof. M.C. Mills) c. £51,783  
UK Biobank Limited 06/2023-present
- Analysing REF2021 Impact Case Studies (Co-I with Prof. M.C. Mills et al.) £144,975  
British Academy and the Academy of Social Sciences 01/2023-09/2023
- Improving Access to and use of Organisation-level Data on the Third Sector and Civil Society (Co-I with Professor John Mohan et al.) £684,578  
Research Grants (Strategic). Economic and Social Research Council 10/2022-03/2025
- GWAS Diversity by Funder (Project Manager/Co-I with Prof. M.C. Mills et al.) £22,440  
ESRC Impact Acceleration Account Stage 3, University of Oxford 07/2022-03/2023
- Summer Institute in Computational Social Science (Co-I with Prof. R. Kashyap) £4,900  
Teaching Development and Enhancement Project, University of Oxford 07/2022-07/2022

- ESRC Centre for Care (Co-I with Prof. S. Yeandle et al.)  
ESRC Large Centres Competition c. £10m  
09/2021-12/2026
- Demographic Science and COVID-19 in the UK (Co-I with Prof. J.B. Dowd et al.)  
UAS John Fell Fund, University of Oxford £49,981  
06/2020-12/2021
- The Social Data Science of Healthcare Supply  
British Academy Postdoctoral Fellowship, University of Oxford £333,899  
01/2018-12/2020
- The Fertility Challenge (Co-I with Prof. M.C. Mills and Dr. F. Tropf)  
ESRC Impact Acceleration Award £49,962  
01/2018-12/2018
- Ear-time with the Cabinet (Co-I with Dr. P. Serôdio and Prof. D. Stuckler)  
ESRC Kick-start Impact Acceleration Award, University of Oxford £7,500  
01/2018-12/2019
- Computational Econometrics with Applications to Housing Markets  
ESRC 1+3 Quota PhD Studentship c. £105,000  
09/2010-8/2014

## Awards

- Sino-British Visiting Fellowship Award, University of Hong Kong. 01/2026-02/2026
- Award for Excellence Scheme 2021/22, University of Oxford. 06/2022
- O<sup>2</sup>RB Excellence in Impact Awards, ESRC IAA (co-recipient). 11/2021
- 2018 Prize for Best Article, European Academy of Sociology (co-recipient). 09/2018
- Award for Excellence Scheme 2017/18, University of Oxford. 03/2018
- College winner of Michael K. O'Rourke prize (best PhD publication). 06/2015
- 2015 Midlands Regional Business School Colloquium: Best paper award. 06/2015

## Selected Academic and Policy Presentations

1. 'Rising Life Expectancy Narrowed Health Inequalities in England and Wales'  
Invited Seminar, London Universities Population Seminar, London School of Economics 04/2026
2. 'Am I Destined to Be Me?'  
Invited Seminar, Methods Hub, University of Hong Kong 02/2026
3. 'A Computational Reconstruction of Wealth, Status, and Mortality Gradients'  
Invited Seminar, Population Hub, University of Hong Kong 01/2026
4. 'Introducing RobustiPy: The next generation of model uncertainty software'  
Keynote Talk, International Conference on Social Computing, Fudan University 12/2026
5. 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research'  
Invited Seminar, Max Plank Institute for Demographic Research 11/2025
6. 'Artificial Intelligence for Healthcare'  
Invited workshop leader, 11th IARU-ALH Annual Conference, Peking University 10/2025
7. 'Advances in Artificial Intelligence for Lifespan Inequalities'  
International Conference in Computational Social Science, Institute of Analytical Sociology 07/2025
8. 'Computational Approaches to Life Span Inequalities'  
Oxford Population Health Summer Symposium, Oxford 07/2025
9. 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research'  
European Consortium of Sociological Research (Methods Section), Barcelona 09/2024
10. 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research'  
International Conference on Social Computing, Hong Kong University of Science and Technology 08/2024
11. 'Publishing Academic Social Science and the Generation of Impact'  
Invited Roundtable Panel Member, University of Sheffield 03/2024
12. 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research'  
Computational and Classical Social Science Reading Group, University of Oxford 03/2024

13. 'Open, Reproducible, and Responsible Social Science' 03/2024  
Invited Seminar, Warwick Business School, University of Warwick
14. 'Inequalities in Health by Wealth' 03/2024  
Invited Seminar, Department of Sociology, University of Zurich
15. 'On the Responsible use of Pseudo-Random Number Generators in Scientific Research' 11/2023  
Oxford | Berlin Autumn School on Open and Responsible Research
16. 'Adventures in Open and Reproducible Social Science' 08/2023  
Invited Seminar, Methods Hub, University of Hong Kong
17. 'The Legacy of Longevity: Persistent inequalities in UK life expectancy 1500-2016' 07/2023  
Invited Seminar, Beijing, Hong Kong, Macao and Taiwan Population Aging Summer Camp.
18. 'Armchair Auditing: What could possibly go wrong?' 07/2023  
Invited Research Talk, Data Science for Governance, Office for National Statistics.
19. 'Adventures in Open and Transparent Social Science' 06/2023  
Invited Research Visit, Jinhe Centre for Economic Research, Xi'an Jiaotong University.
20. 'The Legacy of Longevity: Persistent inequalities in UK life expectancy 1500-2016' 06/2023  
Invited Seminar, Institute for Social and Economic Research, University of Essex.
21. 'Adventures in Open and Transparent Social Science' 05/2023  
Department of Social Policy and Intervention, University of Oxford.
22. 'GWAS Diversity by Funder' 03/2023  
Invited Seminar, link23 and Genomics England.
23. 'Open and Reproducible Research with Semi-Structured Data' 11/2021  
Invited Seminar, Department of Sociology, Oxford.
24. 'The Legacy of Longevity: Persistent inequalities in UK life expectancy 1500-2016' 02/2020  
Invited Seminar, Nuffield College, Oxford.
25. 'The Legacy of Longevity: Persistent inequalities in UK life expectancy 1500-2016' 09/2019  
Invited Seminar, Center for Research in Economics and Statistics, Paris.
26. 'Government Procurement Data for Public Policy Making' 10/2018  
British Academy Workshop: Realizing the Promise of Big Data.
27. 'Public Procurement from the Private Sector' 06/2018  
International Conference for Administrative Data Research, Queen's University, Belfast.
28. 'The Architecture of Genome Wide Association' 06/2018  
Departmental Seminar Series, Department of Sociology, University of Oxford.
29. 'A Big Data Approach to Inequalities in Real Estate Markets' 01/2017  
Invited Seminar, Huddersfield Business School, University of Huddersfield.
30. 'Exact and Approximate Methods for Public Payments' 09/2016  
Data for Policy, University of Cambridge.
31. 'Generating Public Payments Databases for Charity Funding Analysis' 03/2016  
ESRC Charity Data Dive, Manchester Central Library.
32. 'A Grid Based Approach for Spatial Weighting Matrix Specification' 02/2016  
Econometrics Seminar, Department of Economics, University of Birmingham.
33. 'Computational Forecasting with FRED' 01/2016  
Royal Economic Society PhD Meeting, University of Westminster.
34. 'Computational Forecasting with FRED' 12/2015  
Computational and Financial Econometrics (CFE) Network, University of London.
35. 'Computational Forecasting with FRED' 12/2014  
Inaugural PhD Economics Conference 2014, University of Leicester.
36. 'Real Estate Forecasting with Big Data', 11/2014  
Birmingham Means Business, Birmingham Town Hall, ESRC Festival of Science.

37. 'Forecasting with Factors' 05/2014  
 ESRC Final Year Doctoral Conference, University of Edinburgh.
38. 'Housing Markets and Monetary Policy' 10/2013  
 ESRC Festival of Science, Birmingham Central Library.

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## Administrative Experiences and Academic Citizenship

<b>Academic Service:</b> Conference Chair, International Conference on Social Computing (2026).	01/2026- Present
<b>Academic Service:</b> Committee Member, International Conference on Social Computing (2025).	08/2025-12/2025
<b>Academic Service:</b> Masters in Public Health Advisory Committee, University of Oxford.	06/2025-Present
<b>Academic Service:</b> Associate Editor-in-Chief at the Journal of Social Computing	02/2025-Present
<b>Academic Service:</b> Associate Editor at ACM Transactions in Social Computing	04/2025-Present
<b>Academic Service:</b> Consultant for Banco de la Republica de Colombia	12/2024-Present
<b>Academic Service:</b> ONS Adult Social Care Workforce Methods Advisory Group	01/2024-Present
<b>Committee:</b> DPhil Admissions Committee, Oxford Population Health	12/2023-Present
<b>Committee:</b> Community Project Steering Group, UK Reproducibility Network	11/2023-Present
<b>Committee:</b> Research Practice Group, Univeresity of Oxford	09/2023-05/2024
<b>Academic Service:</b> Local Network Co-ordinator, UK Reproducibility Network	03/2023-Present
<b>Committee:</b> MPhil and DPhil Admissions Committee, Department of Sociology, Oxford	02/2023
<b>Academic Service:</b> Director of Taught Courses, Leverhulme Centre for Demographic Science	09/2022-Present
<b>Member:</b> International Society for Scientometrics and Informatics	09/2021-Present
<b>Committee:</b> Capacity Building Group at the ESRC Centre for Care	01/2022-Present
<b>Committee:</b> Ethics and Data Management Committee at the ESRC Centre for Care	01/2022-Present
<b>Member:</b> Pandemic Sciences Institute, University of Oxford	1/2022-Present
<b>Steering Group:</b> Senior Management Board of the Leverhulme Centre for Demographic Science	01/2021-Present
<b>Co-Convenor:</b> Summer Institute in Computational Social Science (Oxford)	09/2019-09/2022
<b>Steering Group:</b> ESRC, MRC and WT committee for a Population Research Resource	03/2019-09/2020
<b>Steering Group:</b> Department of Sociology, University of Oxford	04/2017-05/2019, 09/2021-09/2022
<b>Local Organizer:</b> ESRC Regional Doctoral Training Centre Conference	06/2014
<b>Local Organizer:</b> Midlands Regional Doctoral Colloquium, University of Birmingham	06/2013
<b>Steering Group:</b> ESRC Doctoral Training Centre, University of Birmingham	09/2012-09/2015
<b>Steering Group:</b> Department of Economics, University of Birmingham	09/2012-09/2015

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## Refereeing Services

International Journal of Forecasting, Economic Modeling, Journal of Housing Economics, Oxford Bulletin of Economics and Statistics, Environmental and Resource Economics, Critical Public Health, Empirical Economics, Voluntary Sector Review, UKRI, ESR, China: An International Journal, PNAS, Computational Economics, Frontiers in Public Health, Communications Biology, Sage Publications, British Academy, Scientific Reports, Financial Stability, Socio-Economic Review, Social Science and Humanities Communicatons, European Society, Economic and Social Research Council, Empirical Economics, BMJ Open, Population Studies, Nature Communications, Wellcome Trust, ZonMwm, Journal of Social Computing, Multivariate Behavioural Research.

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## Selected Recent Teaching (and Teaching-related Events)

<b>Convenor</b>	Large Language Modelss for Social Science	29/09-2025
<b>Convenor</b>	Python for Health, Economic, and Social Data Science	29/09-2025
<b>Guest Lecturer</b>	Principles of Statistics (Global Health Science and Epidemiology)	01-2025
<b>Lecturer and Mentor</b>	Summer School in Quantitative Methods for Social Care	09-2024
<b>Convenor</b>	Summer Lecture Series in Demographic Data Science	06/07-2024
<b>Convenor</b>	Introducing Robustify via an open, all day Hackathon	06-2024
<b>Convenor</b>	Realising the Benefits of being Open and Reproducible in Research	06-2024
<b>Convenor</b>	Carpentries Workshop: Git, Command Line Interface, and R	02-2024
<b>Module Co-Designer:</b>	RP02 Open Research Practices, University of Oxford	2023-Present
<b>Co-Convenor/Lecturer:</b>	Ox   Ber Autumn School on Responsible Research, University of Oxford	2021-Present
<b>Convenor:</b>	Life Course Research, University of Oxford	2020-2023
<b>Co-Convenor:</b>	Demographic Analysis, University of Oxford	2020-2023
<b>Convenor:</b>	Replication and Open Social Science, University of Oxford	2019-2020
<b>Lecturer:</b>	An Introduction to Bash for Sociogenomics, University of Oxford (NCRM)	2017

<b>Guest Lecturer:</b>	Advanced Quantitative Methods, University of Oxford	04-2019
<b>Lecturer:</b>	Python for Social Scientists, University of Oxford	2017-2020
<b>Teaching Assistant:</b>	Time Series Econometrics, University of Birmingham	2015-2016
<b>Lecturer:</b>	An Introduction to Econometric Software, University of Birmingham	2013-2016

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## Postgraduate Supervision

Successfully supervised DPhil candidates:	1	Current DPhil candidates:	6 (one incoming)
Successfully supervised MPhil candidates:	5	Current MPhil candidates:	0
Successfully supervised MSc candidates:	24	Current MSc candidates:	0

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## Selected Additional Training

- **AWS:** Certified Machine Learning Professional (Forthcoming: 2026)
  - **AWS:** Certified Cloud Practitioner (Forthcoming: 2026)
  - **Training:** Media Interviews: Method and delivery (Extended) 05/2023
  - **Hanyu Shuiping Kaoshi:** Level 1 (Mandarin) Test 05/2023
  - **Certified Data Carpentries Instructor:** The Data Carpentries (Community Initiative) 06/2022
  - **Secure Research Service Accreditation:** Office for National Statistics 10/2021
  - **Advanced Research Methods:** DPIR Spring School, University of Oxford 04/2019
  - **Coursera:** Data Mining Specialization 12/2018–Present
  - **Course:** Introduction to Data Linkage, Said Business School, University of Oxford 05/2018
  - **Evaluation of Data Linkage:** Said Business School, University of Oxford 05/2018
  - **Introduction to Hospital Episode Statistics:** University of Southampton 04/2018
  - **Coursera:** Genomic Data Science Specialization 02/2018
  - **Coursera:** Python for Informatics Specialization 12/2016
  - **Cemmap MasterClass on Machine Learning:** Institute for Fiscal Studies 05/2016
  - **Essex Workshop on Statistics in Social Sciences:** University of Essex 06/2015
  - **The Science and Art of DSGE Modeling:** University of Surrey 08/2014
  - **London Summer School of Economics:** EC341 (Industrial Organization) 07/2010
  - **Investment Management Certificate:** Unit I, II & III 11/2009
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## Academic Referees

Professor Melinda C. Mills  
 Director, Demographic Science Unit  
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Professor Aaron Reeves  
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