

Curriculum Vitae of Lindsey Macmillan

Personal Details

Name: Prof. Lindsey Anne Macmillan **Email:** L.Macmillan@ucl.ac.uk
Address: UCL Institute of Education, 20 Bedford Way, London, WC1H 0AL

Academic Positions

Current

2019 - Professor of Economics
Founding Director, Centre for Education Policy and Equalising Opportunities,
UCL Institute of Education
2018 - Research Fellow,
Institute for Fiscal Studies

Previous

2018 -2019 Head of Quantitative Social Science
Department of Social Science, UCL Institute of Education
2016 -2019 Associate Professor (Reader) in Economics
Department of Social Science, UCL Institute of Education
2014-2016 Senior Lecturer in Economics, Quantitative coordinator for Doctoral School
Department of Social Science, UCL Institute of Education
2012-2014 Lecturer in Economics, Quantitative coordinator for Doctoral School
Department of Social Science, UCL Institute of Education
2009-2010 Saguro Seminar Post-doctoral Research Fellow,
Harvard Kennedy School, Harvard University
2005-2007 Research Assistant,
Centre for Market and Public Organisation, University of Bristol

Visits, Visiting Positions and Affiliations

2023 CESifo, Munich, Germany – Research visit, hosted by Professor Ludger Woessmann
2018 Institute for Employment Research, Nuremberg, Germany – Research visit, hosted by
Professor Silke Anger
2016 Harvard University, USA – Research visit, hosted by Professor Bruce Western
2016 University of Melbourne, Australia – Research visit, hosted by Dr Irma Mooi-Reci
2013 Stockholm University, Sweden – Guest Researcher, hosted by Professor Janne
Jonsson

2019- Centre for Analysis of Social Exclusion, London School of Economics – Visiting
Professor
2013-2019 Centre for Analysis of Social Exclusion, London School of Economics - Visiting
Research Fellow
2013-2015 Centre for Public and Market Organisation, University of Bristol – Honorary
Research Associate
2014-2018 Institute of Fiscal Studies – Visiting Research Associate
2012 Implementation Unit, Cabinet Office –Policy Analyst
2009-2012 Institute for Social Change, University of Manchester –Visiting Research Associate

Education

2008-2012 PhD in Economics, University of Bristol, Department of Economics
The intergenerational transmission of worklessness
Supervisors: Professor Paul Gregg and Dr Deb Wilson
Examiners: Professor Simon Burgess and Professor Kjell Salvanes
2007-2008 MSc in Economics and Public Policy (Distinction), University of Bristol
2002-2005 BSc in Economics (2:1), University of Bristol

Research Funding

Principal Investigator (£8.55m)

2022-2025	Nuffield Foundation – Inequalities in access to elite occupations (with Gill Wyness and Catherine Dilnot) - £318,797.70
2020-2021	UKRI Covid-19 Grant – Analysing the impact of Covid-19 on young peoples’ learning, motivation, wellbeing, and aspirations using a representative panel (with Jake Anders, Patrick Sturgis, and Gill Wyness) - £224,070.25
2019-2024	Centre for Education Policy and Equalising Opportunity core funding grant from IOE Faculty of Education and Society, UCL - £7,200,000.00
2019-2020	Social Mobility Commission – analyzing regional disparities in social mobility (with IFS) - £130,000
2018-2020	ESRC Research Grant – Intergenerational income mobility: Gender, Partnerships and Poverty in the UK (with Paul Gregg) – £401,365
2015-2019	ESRC Future Research Leaders grant– Intergenerational worklessness in an international context – £276,540

Co-Investigator (£9.60m)

2022-2025	UKRI Productivity Call – Diversity and Productivity from Education to Work (with Claire Crawford) - £1,634,799
2022-2023	UKRI Covid-19 Grant – COSMO wave 2 (with Jake Anders) - £1,902,131.96
2021-2022	UKRI Covid-19 Grant – COSMO wave 1 (with Jake Anders) - £2,809,579.13
2021-2022	UKRI Covid-19 Grant – Student to degree mismatch: the role of schools, and the impact of disruption from Covid-19 (with Gill Wyness) - £223,322.26
2021-2022	Nuffield Foundation – The medium term impact of the Covid-19 pandemic on pupils’ with SEND education (with Asma Benhenda) - £75,902.89
2021-2024	NIHR – The Special Study – Special Educational Needs Support To Improve Child Health (with Ruth Gilbert) - £2,137,057.15
2019-2020	Social Mobility Commission – downward mobility (with Luke Sibieta) - £108,000
2019-2021	Nuffield Foundation – The relationship between 16-19 subject and qualification choices and university outcomes (with Catherine Dilnot) - £112,543
2017-2019	Nuffield Foundation – Undermatch in Higher Education: Prevalence, Drivers and Outcomes (with Gill Wyness) – £224,486
2014-2016	University of Bristol Widening Participation Research Fund – Removing barriers: Financial Transparency, peer effects and prior attainment RCT (with Simon Burgess) – £99,843
2014-2017	ESRC Research Seminars Competition – Child Poverty and Social Mobility: Lessons for Research and Policy – funding for nine speakers for seminar series (with Paul Gregg) - £30,000
2013-2016	ESRC research grant – Lifetime economic mobility: Understanding mobility within and across generations (with Paul Gregg) – £247,749
2013-2016	Education Endowment Fund Evaluation Grant – Evaluating ‘Chess in Schools’ RCT (with John Micklewright) – £32,340

Other funding

2017-2020	Nuffield Foundation – Social policies and distributional outcomes in a changing Britain (with Polly Vizard, John Hills, Tania Burchardt, Kitty Stewart and Abigail McKnight) – £10,000
2013	SUNSTRAT (Social Stratification Dynamics – Inter and intragenerational processes) Guest Research Program – travel and accommodation to visit Stockholm University for two weeks - £3,500
2012-2014	Nuffield Foundation, Joseph Rowntree Foundation and Trust for London – Social Mobility in a Cold Climate (with Jo Blanden, John Hills and Ruth Lupton) – £40,000

2008-2012 ESRC 1+3 Research Studentship, Department of Economics, University of Bristol – fees, living costs and quantitative methods stipend - £80,000

Awards and Appointments

- 2023** Treasurer, Scottish Economic Society Council
2020 Council Member, Scottish Economic Society Council
2018 Outstanding recent contribution to the science of the NCDS for the paper:
Blanden, J., Gregg, P. and **Macmillan, L.** (2013) “Intergenerational Persistence in Income and Social Class: The Impact of Within-Group Inequality” *Journal of the Royal Statistical Society: Volume A* Vol. 176(2) pp. 541-563.
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Research (authorship in alphabetical order)

Publications – H-index: 29. Citations: 3428 (as of Apr 2024)

- 2023** Anders, J., Jerrim, J., and **Macmillan, L.** (2023) ‘Socioeconomic inequality in young people’s financial capabilities’ *British Journal of Educational Studies*, Vol. 71(6), 609-635
- 2023** Dilnot, C., **Macmillan, L.**, and Wyness, G. (2023) ‘The path increasingly travelled: Vocational entry qualifications, socioeconomic status and university outcomes’ *British Educational Research Journal*, Vol. 49(6), 1142-1160.
- 2023** Anders, J., Dilnot, C., **Macmillan, L.**, and Wyness, G., (2023) ‘Grade Expectations: How well can past performance predict future grades?’ *Education Economics*, Vol. 31(4), 397-418.
- 2022** Anders, J., **Macmillan, L.**, Sturgis, P., and Wyness, G., (2022) ‘Inequalities in late adolescents’ educational experiences and wellbeing during the Covid-19 pandemic’ *Oxford Review of Education*, Vol 49(5), 620-642
- 2022** **Macmillan, L.**, and Tominey, E. (2022) “Parental Inputs and Socio-Economic Gaps in Child Development” *Journal of Population Economics*, Vol. 36, 1513-1543.
- 2021** Campbell, S., **Macmillan, L.**, Murphy, R., and Wyness, W. (2021) “Matching in the Dark: Inequalities in Student to Degree Match” *Journal of Labor Economics*. Vol. 40(4), 807-850
- 2020** Burgess, S., Dickson, M. and **Macmillan, L.** (2020) “Do Selective Schooling Systems Increase Inequality?” *Oxford Economic Papers*, Vol 72(1), 1-24
- 2019** Gregg, P., **Macmillan, L.** and Vittori, C. (2019) “Intergenerational income mobility: Access to top jobs, the low-pay no-pay cycle, and the role of education in a common framework” *Journal of Population Economics*, Vol. 32. 501-528
- 2018** Burgess, S., Chande, R., Dilnot, C., Kozman, E., **Macmillan, L.** and Sanders, M., (2018) “Role models, mentoring and university applications – evidence from a crossover randomized controlled trial in the United Kingdom” *Journal of Widening Participation and Lifelong Learning* Vol 20(4), pp. 58-80
- 2018** Burgess, S., Crawford, C. and **Macmillan, L.** (2018) “Access to Grammar Schools by Socio-Economic Status” forthcoming in *Environment and Planning Series A: Economy and Space* <https://doi.org/10.1177/0308518X18787820>
- 2018** Gregg, P., Jerrim, J., **Macmillan, L.**, and Shure, N. (2018) “Children in jobless households across Europe: Evidence on the association with medium- and long-term outcomes” *Journal of Poverty and Social Justice*, Vol. 26(3), pp.335-358
- 2017** Jerrim, J., **Macmillan, L.** Micklewright, J., Satwell, M. and Wiggins, M. (2017) “Does teaching children to play chess improve their educational attainment? Evidence from a randomized control trial in England” *Journal of Human Resources*, Vol 53(4), pp. 993-1021.
- 2017** Gregg, P., Jonsson, J.O., **Macmillan, L.** and Mood, C. (2017) “The Role of Education for Intergenerational Income Mobility: A comparison of The United States, Great Britain and Sweden” *Social Forces* Vol. 96 (1), pp 121-152.
- 2017** Friedman, S. and **Macmillan, L.** (2017) “Is London Really the Engine-Room? Migration, Opportunity Hoarding and Regional Social Mobility in the UK” *National Institute Economic Review* Vol. 240, pp R58-R72.

- 2017 Gregg, P., **Macmillan, L.** and Vittori, C. (2017) “Moving Towards Estimating Lifetime Intergenerational Economic Mobility” *Oxford Bulletin of Economics and Statistics*, Vol. 79 (1), pp. 79-100, DOI: 10.1111/obes.12146
- 2016 Crawford, C., Gregg, P., **Macmillan, L.**, Vignoles, A., and Wyness, G. (2016b) “Higher Education, Career Opportunities and Intergenerational Inequality” *Oxford Review of Economic Policy* Vol. 32 (4), pp. 553-575
- 2016 Crawford, C., **Macmillan, L.** and Vignoles, A. (2016a) “When and Why do Initially High Attaining Poor Children Fall Behind?” *Oxford Review of Education* Vol. 43 (1), pp. 88-108.
- 2016 Blanden, J. and **Macmillan, L.** (2016) “Educational inequality, educational expansion and intergenerational mobility” *Journal of Social Policy*, Vol. 45 (4), pp.589-614.
- 2015 Jerrim, J and **Macmillan, L.** (2015) “Income Inequality, Intergenerational Mobility and the Great Gatsby Curve: Is Education the Key?” *Social Forces* Vol. 94 (2). pp. 505-533
- 2015 **Macmillan, L.**, Tyler, C. and Vignoles, A. (2015) “Who gets the top jobs? The role of family background and networks in recent graduates’ access to high status professions” *Journal of Social Policy* Vol. 44(3) pp.487-515
- 2014 **Macmillan, L.** (2014) “Intergenerational Worklessness in the UK and the Role of Local Labour Markets” *Oxford Economic Papers* Vol. 66(3) pp. 871-889.
- 2013 Blanden, J., Gregg, P. and **Macmillan, L.** (2013) “Intergenerational Persistence in Income and Social Class: The Impact of Within-Group Inequality” *Journal of the Royal Statistical Society: Volume A* Vol. 176(2) pp. 541-563.
- 2012 Gregg, P., **Macmillan, L.** and Nasim, B. (2012) “The impact of the Fathers’ Job Loss during the 1980s Recession on their Child’s Educational Attainment and Later Labour Market Outcomes” *Fiscal Studies* Vol. 33(2) pp.237-264
- 2010 Gregg, P. and **Macmillan, L.** (2010) “Family income and Education in the Next Generation: Exploring income gradients in education for current cohorts of youth” *Longitudinal and Life Course Studies* Vol. 1(3) pp.259-280
- 2007 Blanden, J., Gregg, P. and **Macmillan, L.** (2007) “Accounting for intergenerational Income Persistence: Non-cognitive Skills, Ability and Education” *The Economic Journal* Vol. 117 (519) pp. C43-C60

Book chapters

- 2011 Blanden, J. and **Macmillan, L.** (2011) “Recent developments in Intergenerational mobility” in *The State of Working Britain*, P.Gregg and J. Wadsworth (eds.)
- 2007 Gregg, P. and **Macmillan, L.** (2007) “Social Mobility - Access to education and skills: the first step in the ladder of achievement” in *The Politics of Aspirations* Social Market Foundation

Reports

- 2020 **Macmillan, L.** and Sibieta, L. (2020) “Changing gears: understanding downward social mobility” Social Mobility Commission
- 2020 Carneiro, P., Cattan, S., Dearden, L., van der Erve, L., Krutykova, S. and **Macmillan, L.** (2020) “The long shadow of deprivation: differences in opportunities across England” Social Mobility Commission
- 2017 Friedman, S., Laurison, D. and **Macmillan, L.** (2017) “Social Mobility, the Class Pay Gap and Intergenerational Worklessness: New Insights from the UK Labour Force Survey” Social Mobility Commission
- 2016 Jerrim, J., **Macmillan, L.**, Micklewright, J., Satwell, M., and Wiggins, M. (2016) “Chess in Schools” Education Endowment Fund.
- 2014 Greaves, E., **Macmillan, L.** and Sibieta, L. (2014) “Lessons for London schools for attainment gaps and social mobility” Social Mobility and Child Poverty Commission

- 2014** Crawford, C., **Macmillan, L.** and Vignoles, A. (2014) “Progress made by high-attaining children from disadvantage backgrounds” Social Mobility and Child Poverty Commission
- 2013** **Macmillan, L.** and Vignoles, A. (2013) “Mapping the occupational destinations of new graduates” Social Mobility and Child Poverty Commission
- 2012** **Macmillan, L.** (2012) “The cost of youth unemployment” Commission on Youth Unemployment
- 2012** Gregg, P., Harkness, S., and **Macmillan, L.** (2012) “Poverty: The role of Institutions, Behaviours and Culture” Joseph Rowntree Foundation
- 2012** Britton, J., Gregg, P., **Macmillan, L.** and Mitchell, S. (2012) “The Early Bird: Preventing Young People from Becoming another NEET statistic” Tomorrow’s People
- 2009** **Macmillan, L.** (2009) “Social mobility and the Professions” The Panel for Fair Access to the Professions
- 2007** Blanden, J., Gregg, P., Machin, S. and **Macmillan, L.** (2007) “Intergenerational Mobility in Britain: Summary” DWP Select Committee, House of Commons
- 2006** Gregg, P., Harkness, S., and **Macmillan, L.** (2006) “Welfare to work policies and child poverty” Joseph Rowntree Foundation

Working papers

- 2020** Anders, J., Dilnot, C., **Macmillan, L.**, & Wyness, G. (2020). “Grade Expectations: How well can we predict future grades based on past performance?” (No. 20-14). Centre for Education Policy and Equalising Opportunities, UCL Institute of Education.
- 2020** Gregg, P., & **Macmillan, L.** (2020). “Intergenerational joblessness across Europe: the role of labour markets, education and welfare generosity” (No. 20-11). Centre for Education Policy and Equalising Opportunities, UCL Institute of Education.
- 2020** Campbell, S., **Macmillan, L.**, Murphy, R., & Wyness, G. (2020). “Matching in the Dark? Inequalities in student to degree match” (No. 20-01). Centre for Education Policy and Equalising Opportunities, UCL Institute of Education.
- 2019** **Macmillan, L.**, & Tominey, E. (2019). “Parental inputs and socio-economic gaps in early child development.” IZA Discussion Paper No. 12792, Available at SSRN: <https://ssrn.com/abstract=3495769>
- 2017** Belfield, C., Crawford, C., Greaves, E., Gregg, P., and **Macmillan, L.** (2017) “Intergenerational income persistence within families” IFS Working Paper 17/11, Institute of Fiscal Studies.
- 2017** Burgess, S., Crawford, C. and **Macmillan, L.** (2017) “Assessing the role of grammar schools in promoting social mobility” DSS Working Paper 17/09, UCL Institute of Education
- 2015** Blanden, J., Gregg, P., Greaves, E., **Macmillan, L.** and Sibieta, L. (2015) “Understanding the improved performance of disadvantage pupils in London” CASE SPCC Working Paper 21, London School of Economics
- 2013** **Macmillan, L.** (2013) “The role of non-cognitive and cognitive skills, behavioural and educational outcomes in accounting for the intergenerational transmission of worklessness” DQSS Working Paper 13/01, UCL Institute of Education

Doctoral Supervision

Completed:

- Stuart Campbell: *Education and Labour market outcomes of A8 Migrants (PhD)*
 Catherine Dilnot: *Subject choice and access to universities and occupations (PhD)*
 Natasha McMaster: *Socio-economic status and subject choice (PhD)*
 Claire Tyler: *Intergenerational transmission of top professions (PhD)*
 Nancy Daza: *Exploring multiple dimensions of social mobility (PhD)*

Current students:

Matthew Van Poortvliet: *The role of social and emotional skills in narrowing the gap (PhD)*

Oliver Anderson: *The long-run effects of educational achievement (PhD)*

Maria Carvajal: *School segregation in Chile (PhD)*

Line Management and Administration**Line management:**

2022-	Claire Tyler, Research Fellow
2021-	Dr Claire Crawford, Associate Professor
2020-	Alice De Gennaro, Research Assistant
2019-	Dr Jake Anders, Associate Professor
2019-	Prof. Gill Wyness, Professor
2019-	Miss Shola Adesanya, Centre Manager
2019-2022	Dr Stuart Campbell, Research Associate
2018-2019	Prof. Lorraine Dearden, Professor
2018-2019	Prof. Ingrid Schoon, Professor
2018-2019	Dr Kirstine Hansen, Associate Professor
2018-2019	Dr Bilal Nasim, Research Associate
2018-2018	Dr Asma Benhenda, Research Associate
2016-2018	Dr Stuart Campbell, Research Associate
2015-2018	Dr Hedvig Horvath, Lecturer in Economics

Career breaks

2021	Maternity leave: July – June (2022)
2017	Maternity leave: Mar – Jan (2018)
2015	Maternity leave: Jan – Sept

Examinations

2023	External examiner: Michael Vallely, University of Glasgow, Glasgow
2023	External examiner: Gustave Kenedi, Sciences Po, Paris
2022	External examiner: Valentina Contreras Silva, London School of Economics
2021	External examiner: Mike Brewer, University of Essex
2020	External examiner: Ashton Brown, University of Cambridge
2019	External examiner: Likun Mao, University of Lancaster
2019	External examiner: Luana Goveia Marx, University of Oxford
2018	Internal examiner: Nuria Mallorqui Rusalleda
2016	Internal examiner: Daniel Uribe

Teaching

2012-	UCL Institute of Education, Department of Social Science
2016-	<i>Impact Evaluation Methods Lecturer –</i>

	25% of total teaching: Before and After, Difference in Difference, Instrumental Variables.
2012-2018	<i>Quantitative methods Coordinator for the Doctoral School</i> – Strategic oversight for provision of quantitative training to doctoral school students. Oversee the provision of the Statistical Advisory Service. Quantitative representative of the MRes and MPhil/PhD programme teams, MSc Economics of Education Exam Board, MRes Exam Board and Doctoral School committee / Research Degrees Exam Board.
2012-2015	<i>Quantitative Analysis III: Advanced Quantitative methods Module Leader</i> – Multivariate regression, panel data models, multi-level modeling, discrete outcome models, selection models. Evaluation average score 2014: 4.8 (N=14), 2013: 4.7 (N=17) – 5 ‘Excellent’ to 1 ‘Poor’
2012-2016	<i>Evaluation Methods and Economic Appraisal Lecturer</i> – 40% of total teaching: Evaluation framework, RCTs, Before and After, Difference in Difference, Instrumental Variables. Evaluation average score: 2013: 4.6 (N=25) – 5 ‘Excellent’ to 1 ‘Poor’.
2014-2016	<i>QStep Computer Skills for Researchers Module Leader</i> – STATA training for researchers including audit trails, data cleaning, merging and reshaping and programming. Evaluation average score: 2014: 5 (N=6) - 5 ‘Excellent’ to 1 ‘Poor’.
2012-2016	<i>Longitudinal Analysis guest lecture</i> – panel data models
2012-2017	<i>Economic Perspectives and Economic Policy guest lecture</i> – education and social mobility
2008-2009	University of Bristol, Department of Economics <i>Introduction to Excel / Introduction to Stata</i> – MSc students in Economics and Finance

Selected presentations

2024	Scottish Economic Society conference, Glasgow, Scotland
2023	European Association Labour Economists conference, Prague, Czech Republic
2023	International Workshop on Applied Economics of Education, University of Catanzaro, Italy
2023	Royal Economic Society conference, Glasgow, Scotland
2022	International Workshop on Applied Economics of Education, University of Catanzaro, Italy
2021	ISER, University of Essex
2021	University of Aberdeen, Scotland
2021	Scottish Economic Society conference, online
2019	European Association Labour Economists conference, Uppsala, Sweden
2019	European Society of Population Economics, Bath
2019	Society of Economics of Household, Lisbon, Portugal
2019	Scottish Economic Society conference, Perth, Scotland
2018	Institute of Employment Affairs, Nuremberg, Germany
2018	Department of Economics, Queens University, Belfast
2018	Workshop for Labour and Family Economics, University of York
2018	International Workshop on Applied Economics of Education, University of Catanzaro, Italy
2016	British Education Research Association, University of Leeds
2016	National Foundation for Education Research
2016	Spring seminar series, Melbourne Institute of Applied Economic and Social Research, University of Melbourne, Australia
2015	Welfare Policy and Analysis Seminar, CASE, London School of Economics

2015	Equal Opportunities, University of Bath and Social Mobility and Child Poverty Commission Seminar Series
2014	ESRC Festival of Social Science, Department for Education
2014	Nuffield College, University of Oxford, external sociology seminar series
2014	Joint education workshop, Stellenbosch University, South Africa and University of Bath
2014	International Workshop on Applied Economics of Education, University of Catanzaro, Italy
2013	Plenary Presentation - RC28 Winter Conference, University of Queensland, Brisbane, Australia
2013	Royal Economic Society annual conference, Royal Holloway University
2012	International workshop on Nordic model challenges in transition from school to work: gender ethnicity and disability, NOVA, Copenhagen, Denmark
2012	University of Kent, Social Policy department external seminar series
2012	Social Change: A Harvard-Manchester Initiative meeting in Sarasota, Florida
2011	University College Dublin, Economics department external seminar series
2011	Irish Society for New Economists Annual conference, Dublin
2011	CASE and DWP Welfare and Policy Analysis Seminar
2011	University of Verona Winter School on Inequality, Canazei, Italy
2009	Department of Work and Pensions Economic Group Summer conference
2009	Social Change: A Harvard-Manchester Initiative Summer School

Reviews

Co-Editor: Education Economics

Reviewer: European Economic Review
American Sociological Review
Labour Economics
Economics of Education Review
Oxford Bulletin of Economics and Statistics
Economica
Education Economics
Social Forces
World Development
Journal of Social Policy
Demography
British Journal of Sociology
Review of Economics of the Household
Sociology of Education
ESRC Research Grants
Nuffield Foundation Research Grants

Selected Courses

2018-2019	Future Leaders Programme, UCL
2018	Secure Data Service training, University of Essex
2017	Information Governance, University College London
2016	Survival Analysis: Modeling time-to-event data, CEMMAP, IFS
2014	Secure Data Service training, University of Essex
2013	Introduction to Doctoral Supervision, Institute of Education
2013	Media training, Institute of Education
2012	Equality and Diversity, Institute of Education

2012	Recruitment and selection, Institute of Education
2011	Winter School on Inequality, University of Verona
2010	Statistics course, Government Department, Harvard University
2010	Advanced Applied Microeconomics, Department of Economics, University of Bristol
2009	Summer School on Inequality, Social Change: A Harvard-Manchester Initiative
2008	Advanced Microeconometrics. Department of Economics, University of Bristol

Referees

Prof. Susan O'Neill (Line Manager)
Head of Department of Learning and Leadership,
20 Bedford Way,
London,
WC1H 0AL
S.ONeill@ucl.ac.uk

Prof. Toby Seddon (Head of Department)
Head of Social Research Institute,
20 Bedford Way,
London,
WC1H 0AL
T.Seddon@ucl.ac.uk