

CAROL PROPPER

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Employment

2007 - Professor of Economics, Imperial College Business School (50% time from Oct 2007)
1995 - Professor of Economics of Public Policy, Department of Economics, University of Bristol; 2002-4 Director, CMPO, University of Bristol (50% from Oct 2007).
1993-94 Reader, School for Policy Studies and Department of Economics University of Bristol
1993-94 Senior Economic Advisor to NHS Executive on Regulation of the NHS Internal Market 1993-94 (full time secondment to the Department of Health).
1988-93 Lecturer, School for Policy Studies and Department of Economics University of Bristol
1987-88 Lecturer in Economics, Brunel University
1986-87 Research Fellow, Centre for Health Economics University of York
1983-84 Research Economist, New Zealand Institute of Economic Research
1981-82 Research Officer, Nuffield College Oxford
1977-79 Community Worker, Islington, London

Other current affiliations

1997 ESRC Centre for Analysis of Social Exclusion, London School of Economics (Co-Director 1997-2007).
2004 Visiting Professor, SNF and HEB, University of Bergen
1998 Research Fellow, CEPR

Education

1977 BSc (Hons) Economics and Economic History University of Bristol
1981 MSc in Social Research and Social Policy, Oxford University (SSRC Award, 1979-81)
1982-83 PhD courses, University of Toronto, (Commonwealth Scholarship 1982-3)
1988 PhD in Economics, 1988, University of York (Smith-Kline Award, 1984-5)

Substantive policy advice

2007 Member of the UKCeMGA Health and Adult Social Care Quality Assurance Panel (QAP)
1993-94 UK Government: Senior Economic Advisor to NHS Executive on Regulation of the NHS Internal Market
1999-01 Incentives and Sanctions Group, Department of Health
2000-02 Adding it up Implementation Group Treasury
2003-05 Department of Health Steering Group for Measuring NHS Productivity
1992-97 European Union: ECuity project on health care reform 1992-;
COMAC-HSR Project on equity in healthcare finance and delivery 1992-1994;
Commission expert on Social Protection in Europe (DGV) 1991-3
1983 USAID/Government of Jamaica, Economic Consultant, Tax Reform Project Jamaica

Public service

- 2005- 2009 Economic and Social Research Council: Chair, Research Grants Board and Member of Council
- 2001 Economics and Econometrics Research Assessment Exercise 2001 Panel member
- 2001 Chair, Conference Programme, Royal Economic Society Conference 2001 (Member Programme Committee 1998-2001, Conference Committee 2000-2002)
- 2000-05 Council Member Royal Economic Society
- 1998-01 Chair, Royal Economic Society Committee on Women in Economics
- 1997-00 Member, ESRC Research Grants Board
- 2010 Awarded CBE, Queens Birthday Honours List for services to social sciences
- 2011 Arrow award for best paper published worldwide in health economics.

Editorial responsibilities

Editor, *Economic Journal Conference Supplement 2002*

Editorial Board Member: *Journal of Health Economics, Health Economics, B.E. Journals in Economic Analysis & Policy, Fiscal Studies 2000-2007, Economic Policy 2002-5, EJ Conference Supplement 2001,*.

Referee for journals including *American Economic Review, B.E. Journals in Economic Analysis & Policy, Economic Journal, Economica, Fiscal Studies, Health Economics, Journal of Health Economics, Journal of Human Resources, Journal of Public Economics, Journal of Social Policy, Oxford Bulletin, Social Science and Medicine.*

Major Research Grants

- 'The private medical insurance market in the UK' (with A K Maynard), Health Promotion Research Trust, £55,000, 1986-87
- 'The distributional consequences of changes in health care policy', ESRC, £34,000, 1990-91
- 'Purchasers, Providers and Contracts' (with W Bartlett), ESRC, £101,000, 1993-95
- 'Poverty Transitions' (with S Burgess), ESRC, £87,000, 1994-96
- 'An Investigation of Equity in the Distribution of Healthcare for Arthritis' (with G Davey-Smith), Nuffield Provincial Hospital Trust, £59,000, 1996-97
- 'Private Welfare' (with John Hills), Joseph Rowntree Foundation, £77,000, 1996-8
- 'Emergency admissions to hospital: an econometric analysis' (with B Croxson), Anglia and Oxford NHS RDD, £49,000, 1997
- 'Can Action by the NHS prevent Diabetic Eye Disease in the Socially Disadvantaged? (with G Davey-Smith and others). South and West NHS RDD, £93,000, 1998-9.
- 'Boundaries of the State' (with S Burgess, P Grout, I Jewitt, and I Tonks) Leverhulme Trust, £913,000, 1998-2003.
- 'Poverty Dynamics in Britain' (with S Burgess) ESRC £110,000, 1999-2001
- 'Private Medical Insurance in the UK' (with H Rees) ESRC £34,000, 1999
- 'Boundaries of the State II' (with S Burgess, P Grout, and I Tonks) Leverhulme Trust, £2m, 2001-2007.
- 'Examination of Poverty, readiness to learn and family circumstances' (with P Gregg and others), Department of Education, £260,000, 2001- 2003
- Centre for the Analysis of Social Exclusion (CASE, London School of Economics) ESRC (with J Hills, A Power, K Kiernan) £2.5m, 2002-2007
- 'Evaluation of Team Based Pay in the UK Civil Service' (with S Burgess), Evidence Based Policy Fund, UK Treasury, £170,000, 2002-2004.
- 'Neighbourhood Effects' (with S Burgess, K Jones, R Johnson) ESRC £240,000, 2002 - 2004

Centre for Market and Public Organisation (CMPO) ESRC Centre Competition (with S Burgess et al) ESRC £1m, 2004 – 2009, ESRC £4.4m 2009-2013.

'Socio-Economic Inequalities in Childhood Outcomes' (with P Gregg at al). ESRC Large Grants Competition £3.9m, 2006-2011.

'Competition in Health Care'. Department of Health £0.5m, 2007-2010. Extension 2010-2011 £140K.

Current teaching

Graduate public economics; graduate health economics; PhD and MSc dissertation supervision.

Refereed articles

Burgess, S, Propper, C, Ratto, M, Scholder, S, Tominey, E. Smarter Task Assignment or Greater Effort: What Makes a Difference in Team Performance (2010), *Economic Journal* Volume 120, Issue 547, 968-989.

Propper, C and Van Reenen, J (2010) "Can Pay Regulation Kill? Panel Data Evidence on the Effects of Labour Markets on Hospital Performance" *Journal of Political Economy* Volume 118, Number 2, 222-273.

Propper, C, Sutton, M, Whitnall, Windmeijer, F. (2010) Incentives and Targets in Hospital Care: Evidence from a Natural Experiment, *Journal of Public Economics*, 94, 318-335.

Johnston, D, Propper, C and Shields, M (2010). Comparing Subjective and Objective Measures of Health: Evidence from Hypertension for the Income/Health Gradient, *Journal of Health Economics* 28(3).

Atkinson, A, Burgess, S, Croxson, B, Gregg, P, Propper, C Tominey E. (2009) Evaluating the impact of Performance related Pay for Teachers in the UK, *Labour Economics* 16 (3).

Janke, K, Propper, C, Henderson J. (2009). Do current levels of air pollution kill? The impact of air pollution on population mortality in England. *Health Economics*

Monstad, K, Propper, C, Salvanes, S. (2008). The Impact of Education on fertility. *Scandinavian Journal of Economics* 110(4)

Burgess, S, Propper, C, Johnson, D, Wilson, D. (2008). The transition of pupils from primary to secondary school in England. *Transactions of the Institute of British Geographers* 33 (3): 388-403.

Propper, C, Halonen, M. (2008). Competition and Decentralisation in Government Bureaucracies. *Journal of Economic Behaviour and Organisation* 67:903–916.

Propper, C, Sutton, M, Whitnall, C., Windmeijer, F. (2008). Did targets and terror reduce waiting times for hospital care in England, *The BE Journal of Economic Analysis and Policy*, Issue 8, 2, Paper 5.

Burgess, S, Propper, C, Gregg, P, Washbrook, E, (2008). Maternity Rights and Mother's return to work. *Labour Economics* 15: 168-201

Burgess, S, Propper, C, Gossage, D, (2008). Competition and Quality: Evidence from the NHS Internal Market 1991-99. *Economic Journal* 118:138-170

Rigg, J, Propper, C, Burgess, S, (2007). Child Health: Evidence on the roles of Family Income and Maternal Mental Health from a UK birth cohort. *Health Economics* 16 (11): 1245-1269

Burgess, S, Bolster, A, Propper, C, Johnston, R, Jones, K, Sarker, R, (2007). Neighbourhoods, Households and Income Dynamics: A semi-parametric investigation of Neighbourhood Effects. *Journal of Economic Geography* 7:1-38.

Propper, C, Damiani, M, Leckie, G, Dixon, J (2007). The impact of patients' socioeconomic status on the distances travelled for hospital admissions in the English NHS. *Journal of Health Services Research and Policy* 12, 3: 153-159.

Burgess, S, Wilson D, Propper, C, (2007). The impact of school choice in England: implications from the economic evidence. *Policy Studies*, 28 (2): 129 -143.

Johnston, R, Propper, C, Jones, K, Burgess, S, Region, (2007). Local Context and Voting at the 1997 General Election in England. *American Journal of Political Science* 51 (3): 640-654.

- Propper, C, Burgess, S, Bolster, A, Leckie, G, Jones, K, Johnston, R (2007). The impact of neighbourhood on the income and mental health of British social renters. *Urban Studies* 44 (2): 393-416
- Aassve, A, Burgess, S, Propper, C, Dickson M (2006). Employment, Family Union, and Childbearing Decisions in Great Britain. *Journal of Royal Statistical Society A* (4): 781-804
- Burgess, S, Propper, C, Wilson, D (2006). Extending Choice in English Health Care: The implications of the economic evidence. *Journal of Social Policy* 35 (4):537-557.
- Burgess, S, Dickson, M, Propper, C (2006). The Analysis of Poverty Data with Endogenous Transitions. *Fiscal Studies* 27 (1):75- 98.
- Burgess, S, Gardiner, K, Propper, C (2006). School, family and county effects on adolescents' later life chances. *Journal of Family and Economic Issues* 27 (2): 155-184.
- Propper, C, (2005). Why Economics is Good for your Health, *Health Economics* 14 (10): 987-998.
- Jones, K, Bolster, A, Johnston, R, Burgess, S, Propper, C, Sarker, R, (2005). Why Economics is Good for your Health: Evidence for the UK. *Social Science and Medicine* 61 (10): 2065-2083.
- Propper, C, Eachus, J, Chan, P, Pearson, N, Davey Smith, G, (2005). Access to health care resources in the UK: the case of care for arthritis. *Health Economics* 14:391-406.
- Gregg, P, Washbrook, E, Propper, C, Burgess, S (2005). The Effects of a mother's return to work decision on child development in the UK. *Economic Journal* 115: F48-80.
- Damiani, M, Dixon, J, Propper, C, (2005). Mapping Choice in the NHS: Analysis of Routine data *British Medical Journal* 330, 7486: 284.
- Johnston, R, Propper, C, Burgess, S, Sarker, R, Bolster, A, Jones, K, (2005). Spatial Scale and the Neighbourhood Effect: Multinomial Models of Voting at Two Recent British General Elections *British Journal of Political Science*.
- Johnston, R, Burgess, S, Propper, C, Sarker, R, Bolster, A, Jones, K, (2005). A missing level in the analysis of British voting behaviour: the household as a context as shown by analyses of a 1992-1997 longitudinal survey. *Electoral Studies* 24: 201-225.
- Propper, C, Burgess, S, Green, K, (2004). Does Competition between hospitals improve the quality of care? Hospital death rates and the NHS Internal Market. *Journal of Public Economics* 88: 1247-1272
- Burgess, S, McConnell, B, Propper, C, Wilson, D, (2004). Girls Rock, Boys Roll: An Analysis of the Age 14-16 Gender Gap in English Schools. *Scottish Journal of Political Economy* 51(2): 209-229.
- Johnston, R, Jones, K, Burgess, S, Propper, C, Sarker, R, Bolster A, (2004). Scale, Factor Analysis & Neighbourhood Effects. *Geographical Analysis* 36, (4): 350-368.
- Aassve, A, Propper, C, Burgess, S, (2003). Income and the transitions to Marriage and Divorce amongst Young Americans. *Journal of Population Economics*, 16(3): 455- 475.
- Bachmann, M, Propper, C, Eachus, J, Hopper, CD, Davey Smith, G, Frankel, S, Pearson, N, Williams, S Tallon D, Frankel, S, (2003). Socioeconomic inequalities in diabetes complications, control, attitudes and health service use: evidence from the Somerset and Avon survey of health: a cross-sectional study. *Diabetic Medicine*, 20(11): 921-929.
- Propper, C, Wilson, D, (2003) The Use and Usefulness of Performance Measures *Oxford Review of Economic Policy* 19 (2): 250-267.
- Burgess, S, Propper, C, Rees, H, Shearer, A (2003). The Class of '81: The effects of early-career unemployment on subsequent unemployment experiences *Labour Economics* 10(3): 291- 311.
- Aassve, A, Burgess, S, Chesher, A, Propper, C. (2002) Transitions to marriage of young Americans. *Journal of Applied Econometrics* 17(1): 1 – 23.
- Propper, C, Croxson, B, Shearer, A. (2002) Waiting times for hospital admissions: the impact of GP fundholding. *Journal of Health Economics* 21: 227-252.
- Propper, C, Green, K .(2001) A larger role for the private sector in financing UK health care: The arguments and the evidence. *Journal of Social Policy* 30: 685-704.

- Propper, C, (2001). Expenditure on health care in the UK: A review. *Fiscal Studies* 22: 151-184.
- Propper, C Rees, H (2001) The demand for private insurance in the UK: A Cohort Analysis. *Economic Journal* 111 (471): 180-C200
- Croxson, B, Perkins, A, Propper, C, (2001) Do Doctors Respond to Financial Incentives: UK family Doctors and the GP Fundholder Scheme. *Journal of Public Economics* 79: 375-398.
- Propper, C, (2000) The Demand for Private health care in the UK. *Journal of Health Economics* 19 (6): 855-876.
- Propper, C, van Doorslaer, E, et al, (2000). Equity in the Delivery of Health Care in Europe and the US. *Journal of Health Economics* 19 (5): 553-584.
- Burchardt, T, Propper, C, (1999). Does the UK have a private welfare class? *Journal of Social Policy* 28 (4): 643-665.
- Propper, C, Wagstaff, A, et al (1999). Redistributive effect, progressivity and differential tax treatment: Personal income taxes in 12 OECD countries). *Journal of Public Economics* 72 (1): 73-98.
- Propper, C, Wagstaff, A, et al, (1999). The redistributive effect of health care finance in twelve OECD countries *Journal of Health Economics* (18): 291-314.
- Propper, C, Wagstaff, et al, (1999). A Equity in the finance of health care: some further international comparisons. *Journal of Health Economics* (18): 263-290.
- Eachus, J, Chan, P, Pearson, N, Propper, C, Davey-Smith, G, (1999). An additional dimension to health inequalities: disease severity and socio-economic position. *Journal of Epidemiology and Community Health* 53, 603-611.
- Propper, C, Wilson, D, Soderlund, N, (1998). The effects of regulation and competition in the NHS internal market: the case of GP Fund-Holder prices. *Journal of Health Economics* 17 (6): 645-674.
- Burgess, S, Propper, C, (1998). Early Health Related Behaviours and their Impact on Later Life Chances: Evidence from the US. *Health Economics* 7(5): 381-400
- Soderlund, N, Propper, C, (1998). Competition in the NHS internal market: An overview of its effects on Hospital Prices and Costs. *Health Economics* 7, 187-197.
- Propper, C, van Doorslaer E et al (1997). Income-related inequalities in health: some international comparisons. *Journal of Health Economics* 16, 93-112.
- Propper, C, (1996). Market structure and prices: the responses of hospitals in the UK National Health Service to Competition. *Journal of Public Economics* 61, 307-335
- Propper, C, (1995). The disutility of time spent on NHS waiting lists, *Journal of Human Resources* 30 (4): 677-701.
- Propper, C, (1995). Do we need an Of health? *British Medical Journal* 6995 (310): 618-9
- Propper, C, (1995). Agency and incentives in the NHS internal market. *Social Science and Medicine*, 40 (12): 1683-1690.
- Propper, C, (1995). Regulatory reform of the NHS internal market. *Health Economics* 4 (2): 77-83
- Propper, C, (1994). Equity in the NHS: A review of the evidence. *Economic and Social Review* 25 (4): 343-365.
- Propper, C, (1993). Constrained Choice Sets in the UK demand for private medical insurance. *Journal of Public Economics* (51): 287-307.
- Propper, C, (1993). A cell based approach to modelling public expenditure, *Health Economics* 2, (2):
- Propper, C, Upward, R, (1992). Need, Equity and the NHS: The distribution of health care expenditure 1974-87, *Fiscal Studies* 13 (2): 1-21.
- Propper, C, Wagstaff, A, van Doorslaer, E, et al, (1992). Equity in the finance of health care; some international comparisons. *Journal of Health Economics* 11, 361-387.
- Propper, C, Wagstaff, A, van Doorslaer, E, et al, (1992). Equity in the delivery of health care; some international comparisons *Journal of Health Economics* 11, 389-411.
- Propper, C, O'Donnell, O, (1991). Equity and the distribution of NHS resources. *Journal of Health Economics*, 10, 1-20.

- Propper, C, O'Donnell, O, (1991). Reply: Equity and the delivery of UK NHS resources. *Journal of Health Economics*, 10, 247-249.
- Propper, C, Bosanquet, N, (1991). Charting the grey economy in the 1990s. *Policy and Politics* 19, (4): 269-281.
- Propper, C. (1990) Contingent valuation of time spent on NHS waiting lists. *Economic Journal* 100, 400: 193-200.
- Propper, C, (1989). Econometric estimation of the demand for private health insurance in England and Wales, *Applied Economics*, 21, 777-792.
- Propper, C, Breakwell, G, Harrison, B, (1984). Attitudes towards the unemployed: Effects of threatened identity, *British Journal of Social Psychology* 23, (1): 87-88.
- Propper, C, Breakwell, G, Harrison, B, (1984). Explaining the psychological effects of unemployment for young people: the importance of specific situational factors. *British Journal of Guidance and Counselling* 12, (2): 132-140.

Books, edited books and book chapters

- Propper, C and Leckie, G (2011) Increasing competition between providers in health care markets: the economic evidence in Glied, Sherry and Smith Peter (eds) *The Oxford Handbook of Health Economics*. OUP: Oxford.
- Propper, C, Le Grand, J, Smith, S (2008). *The Economics of Social Policy* 4rd Edition. London: Macmillan
- Propper, C, Alcock, P, May, M, Rowlinson, K (eds) (2008) Efficiency, Equity and Choice in *The Students Companion to Social Policy (3rd edn)* Oxford: Blackwell.
- Propper, C, Burgess, S, Wilson, D, McConnell, B, (2007) 'The impact of school choice on sorting by ability and socio-economic factors in English secondary education. Cited in: P Peterson and L Woessman (eds), *Schools and the equal opportunity problem*, MIT Press
- Propper, C, Wilson, D, (2006) The use of performance measures in health care systems in Jones, A (ed) *The Elgar Companion to Health Economics*. London: Edward Elgar. 2nd edition under preparation.
- Cullis, J, Jones, P, Propper, C. (2000) Waiting Lists *Handbook of Health Economics* (eds.) A Culyer and J Newhouse, North Holland.
- Propper, C, Burgess, S. (1999) Poverty in Britain. Cited in: P Gregg and J Wadsworth (ed.) *State of Working Britain*, Manchester, MUP.
- Propper, C, Burgess, S, (1997) Young Americans and Poverty 1979-91 Cited in: P Gregg (ed.) *Jobs, Wages and Poverty: Patterns of Persistence and Mobility in the New Flexible Labour Market*. London: Centre for Economic Performance LSE.
- Propper, C, Bartlett, W (1997) Competition, Contracts and NHS Trusts. Cited in R Flynn and G Williams (Eds.) *Contracting for Health*. OUP.
- Propper, C, (1997) Efficiency, Equity and Choice. Cited in P Alcock and M May (Eds.) *The Students Companion to Social Policy*. Blackwell.
- Propper, C, (1995) Regulation and the NHS. Cited in A Harrison (ed.) *Health Care UK 1994/5*. London. Kings Fund.
- Propper, C, (1995) For richer, for poorer, in sickness and in health: the lifetime distribution of health care. Cited in J Falkingham and J Hills (Eds.) *The Dynamic of Welfare*. London: Harvester Wheatsheaf.
- Propper, C, (1994) *Quasi-Markets: the Emerging Findings* (joint editor, and joint author of Introduction and Conclusion). Bristol. SAUS, University of Bristol July. 7
- O'Donnell, O, Propper, C, Upward, R, (1993) Equity in the Delivery and Finance of Health Care in Britain. Cited in: van Doorslaer, A Wagstaff and F Rutten (Eds.) *Equity in the Finance and Delivery of Health Care: An International Perspective*. Oxford. OUP.

- Propper, C, (1993) Quality, Contracts and Quasi-Markets, Cited in: W Bartlett and J Le Grand (Eds.) *Quasi-Markets and Social Policy*. Houndmills: Macmillan.
- Propper, C, (1993) Is there a case for further regulation of health and social care markets? Cited in: W Bartlett and J Le Grand (eds.) *Quasi-Markets and Social Policy*. Houndmills. Macmillan.
- Propper, C, (1993). Forecasting health expenditure using a micro-simulation model. Cited in R Hancock and H Sutherland (eds.) *Micro-simulation models for public policy analysis: new frontiers*. London: London School of Economics Sticerd Occasional Paper 17
- Propper, C, (1992). *The Economics of Social Policy*. Cited in J Le Grand and R Robinson.3rd Edition. London, Macmillan.
- Propper, C, (1991). Health Insurance Purchase: An Example of Enterprise Culture? (with A Eastwood). Cited in J Hutton et al (eds.) *From the Culture of Enterprise to the Culture of Dependency*. London, Routledge.
- Propper, C, (1990). *The Quality of Life: Perspectives and Policies* (editor with S Baldwin and C Godfrey). London: Routledge
- Baldwin, S, Godfrey, C, Propper, C, (1990). Introduction, (eds.) *The Quality of Life: Perspectives and Policies*. London, Routledge.
- Propper, C, (1990). Whither the Private Health Care Sector? (with Alan Maynard). Cited in: A Culyer, J Posnett and A Maynard (eds.) *Competition in Health Care: Reforming the NHS*. Houndmills: Macmillan.

Articles in professional journals

- Propper, C, (1997).The equity implications of the National Health Service Reforms in the UK, *Focus 18*, 3 University of Wisconsin-Madison.
- Propper, C, Hopkins, A, (1994). Regulation of the market in the new NHS: An overview .Cited in: A Hopkins (ed) *Regulation of the Market in the NHS: Competition and the Common Good*. London: RCP Publications.
- Propper, C, (1993). Incentives in the new UK health care market. *The Economic Review 10* (3): 15-19
- Propper, C, Means, R, (1991). What future for elderly people in the 1990s? *Housing and Planning Review 26-27*
- Propper, C, (1990). The ageing 1990s - good-bye to the WOOPIES and JOLLIES? *Town and Country Planning 59*, (7/8): 212-214.
- Propper, C, (1989). Working for Patients: The Implications of the NHS Review for the Private Sector, *Cardiology Management 2*, (4).
- Propper, C, (1989). Private Health Insurance Purchase, *THS Health Summary 6*, 3.
- Propper, C, (1989). The Private Deal, *Health Service Journal 99*, 5145, 426.
- Propper, C, Breakwell, G, Harrison, B (1982). The Psychological Benefits of YOPS, *New Society 61*, 1036: 494-496.

Reports

- Propper, C, Grout, P, Jenkins A, (2000). A review of benchmarking and its application to the NHS London: Office of Health Economics.
- T Burchardt, T, Hills J, Propper, C (1999). *Private Welfare and Public Policy* .York: Joseph Rowntree Foundation
- Propper, C, (1998) *Who Pays for, Who gets Health Care: Equity in the Finance and Delivery of Health Care in the UK*. Nuffield Provincial Hospitals Trust

- Propper, C, Bosanquet, N, Laing ,W. *Analysis of the Rise in Employment Tribunal Applications*, Department of Trade and Industry
- Bosanquet, N, Laing ,W, Propper, C, (1990). *Elderly Consumers in Britain: Europe's Poor Relations* London: Laing and Buisson.
- Propper, C, Marks, P, (1984). *Domestic, Trans-Tasman and International Air Passenger Forecasts, 1981-1993*. Wellington, New Zealand, Ministry of Transport.
- Propper, C, (1984). *Valuing Human Life: An Economic Evaluation of Current Methodologies*. Wellington: New Zealand National Roads Board, Road Research Unit
- Easton, B, Propper, C, Wilson, (1984). *N Subsidization of Urban Transit Networks: A Theoretical Analysis of the Economic Benefits and a Methodology for Apportioning the Benefits* Wellington: New Zealand Urban Transport Council.