

Tim Worrall

<i>Contact</i>	Professor of Economics	☎ +44 (0)131 651 5128
<i>Details</i>	School of Economics	✉ tim.worrall@ed.ac.uk
	The University of Edinburgh	🌐 www.timworrall.com
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Education

1983 PhD in Economics (Labour Contract Theory), University of Liverpool.
 1979 MA in Economics, University of Essex.
 1978 BA in Economics, University of Liverpool.

Employment

2011- Professor of Economics, School of Economics, University of Edinburgh.
 2008-2011 Hallsworth Research Fellow, University of Manchester.
 1996-2008 Professor of Economics, Keele University.
 1990-1996 Lecturer in Economics, University of Liverpool.
 1989-1990 Research Officer, SFB. 178, Institut für Weltwirtschaft, Kiel.
 1987-1989 Research Officer, SFB. 178, Universität Konstanz.
 1986-1987 Temporary Lecturer in Economics, University of Reading.
 1985-1986 Temporary Assistant Professor, University of Western Ontario.
 1983-1985 Junior Research Officer, University of Cambridge.

Publications

Journal Articles

2023. Jonathan P. Thomas and Tim Worrall, “Self-Enforcing Wage Contracts Redux”, *Journal of Institutional and Theoretical Economics*, November, 179, pp.441–469. [doi:10.1628/jite-2023-0039]

2020. Pierre M. Picard and Tim Worrall: “Currency Areas and Voluntary Transfers”, *Journal of International Economics*, November, 127, no. 103390. [doi:10.1016/j.jinteco.2020.103390]

2019. Spiros Bougheas and Tim Worrall: “Portfolio Sales and Signaling”, *Journal of Banking and Finance*, February, 99, pp.182–191. [doi:10.1016/j.jbankfin.2018.12.008]

2018. Jonathan P. Thomas and Tim Worrall: “Dynamic Relational Contracts under Complete Information”, *Journal of Economic Theory*, May, 175, pp.624–651. [doi:10.1016/j.jet.2018.02.004]

2018. Sergey Foss, Vsevolod Shneer, Jonathan P. Thomas and Tim Worrall: “Stochastic Stability of Monotone Economies in Regenerative Environments”, *Journal of Economic Theory*, January, 173, pp.334–360. [doi:10.1016/j.jet.2017.11.004]

2016. Pierre M. Picard and Tim Worrall: “Is a Policy of Free Movement of Workers Sustainable?”, *Scandinavian Journal of Economics*, October, 118(4), pp.718–754. [doi:10.1111/sjoe.12163]

2012. Spiros Bougheas and Tim Worrall, “Cost Padding and Regulated Monopolies”, *International Journal of Industrial Organization*, July, 30(5), pp.331–341. [doi:10.1016/j.ijindorg.2011.12.001]
2007. Jonathan P. Thomas and Tim Worrall, “Limited Commitment Models of the Labour Market”, *Scottish Journal of Political Economy*, November, 54(5) pp.750–773. [doi:10.1111/j.1467-9485.2007.00440.x]
2007. Jonathan P. Thomas and Tim Worrall, “Unemployment Insurance under Moral Hazard and Limited Commitment: Public vs. Private Provision”, *Journal of Public Economic Theory*, February, 9(1) pp.151–181. [doi:10.1111/j.1467-9779.2007.00302.x]
2002. Jonathan P. Thomas and Tim Worrall, “Gift-giving, Quasi-credit and Reciprocity”, *Rationality and Society*, August, 14(3) pp.307–351. [doi:10.1177/1043463102014003003]
2002. Ethan Ligon, Jonathan P. Thomas and Tim Worrall, “Informal Insurance and Limited Commitment: Theory and Evidence from Village Economies”, *Review of Economic Studies*, January, 69(1), pp.209–244. [doi:10.1111/1467-937X.00204]
2000. Ethan Ligon, Jonathan P. Thomas and Tim Worrall, “Mutual Insurance, Individual Savings and Limited Commitment”, *Review of Economic Dynamics*, April 3(2), pp.216–246. [doi:10.1006/redy.1999.0081]
1994. Brian Hillier and Tim Worrall, “The Welfare Implications of Costly Monitoring in Credit Markets”, *Economic Journal*, March, 104(423), pp.350–362. [doi:10.2307/2234755]
1994. Jonathan P. Thomas and Tim Worrall, “Foreign Direct Investment and the Risk of Expropriation”, *Review of Economic Studies*, January 60(1), pp.81–108. [doi:10.2307/2297878]
1990. Jonathan P. Thomas and Tim Worrall, “Income Fluctuation and Asymmetric Information: An Example of a Repeated Principal-Agent Model”, *Journal of Economic Theory*, August, 51(2), pp.367–390. [doi:10.1016/0022-0531(90)90023-D]
1990. Tim Worrall, “Debt with Potential Repudiation”, *European Economic Review* July, 34(5), pp.1099–1109. [doi:10.1016/0014-2921(90)90025-T]
1988. Jonathan P. Thomas and Tim Worrall, “Self-Enforcing Wage Contracts”, *Review of Economic Studies*, October, 55(4), pp.541–554. [doi:10.2307/2297404]
- Book Chapters* 1995. Brian Hillier and Tim Worrall, “Asymmetric Information, Investment Finance and Real Business Cycles” in *The New Macroeconomics: Imperfect Markets and Policy Effectiveness*, H. Dixon and N. Rankin (eds.), Cambridge University Press, pp.245–272, October.
1989. Tim Worrall. “Labour Contract Theory”, in *The Economics of Missing Markets, Information and Games*, F.H. Hahn (ed.), Oxford University Press, pp.336–359, June.
- Book Reviews* 2001. Organisations with Incomplete Information: Essays in Economic Analysis: A Tribute to Roy Radner, edited by M. Majumdar, *Economic Journal*, June, 111(472) F550–552.
1998. The Economics of Contracts: A Primer, B. Salanie, *Economica*, November, 65(260), pp.617–618.

- Working Papers* 2022. Francesco Lancia, Alessia Russo and Tim Worrall: “Optimal Sustainable Intergenerational Insurance”. Centre for Economic Policy Research, Discussion Paper, No. 15540, January.
- Media Coverage* 2016. “Watch Out for Winners and Losers: Odds-Implied Brexit Sentiment and FTSE Returns” with Costas Milas (University of Liverpool) and Robert Zymek (University of Edinburgh), London School of Economics, British Politics and Policy Blog, 22 June, Bloomberg, Cecile Vannucci, 20 June, The Times, Hamish Macdonell, 21 June.
2014. “Economists Count Cost of Scottish Opinion Polls” with Costas Milas (University of Liverpool), Real Time Economics, Wall Street Journal, 11 April; London School of Economics, British Politics and Policy Blog, 25 April.
- Work in Progress* “Intergenerational Insurance” with Francesco Lancia (a' Foscari University of Venice) and Alessia Russo (University of Padua).
“Mutual Insurance with Persistence”.
“Optimal Rotating Savings and Credit Associations” with Ethan Ligon (University of California at Berkeley).
- Citations* The ISI Web of Knowledge/Scopus show over 600 citations for the published articles listed below of which over 125 are in blue ribbon (discipline’s top eight) journals. Google Scholar shows circa 3,250 citations. Articles are cited and discussed in the core graduate text of Sargent and Ljungqvist, *Recursive Macroeconomic Theory* (MIT Press, 2004). The most cited article is “Informal Insurance and Limited Commitment: Theory and Evidence from Village Economies”, which has over 150 citations. The paper “Income Fluctuation and Asymmetric Information: An Example of a Repeated Principal-Agent Model” is ranked in the top 1% of the most highly cited papers by recursive impact factor.

Grants and Awards

- 2024 Leverhulme Trust Fellowship, Intergenerational Insurance (55k).
- 2015-2022 Economic and Social Research Council, Co-investigator (one of nine from Edinburgh), Credit and labour market foundations of the macroeconomy, (John Hardman-Moore, Principal Investigator, £6 million).
- 2006-2007 Royal Economic Society, November 2006 - April 2007: An evaluation of the performance of UK research in economics (24k).
- 2004-2006 Economic and Social Research Council, Co-investigator, Self-enforcing and dynamic relational contracts (Jonathan Thomas, Principal Investigator, 151k).
- 2001-2003 Department for International Development, Co-investigator (one of three from Keele), The effects of macro-financial liberalisation policies on micro-household savings and credit behaviour in developing countries (Peter Lawrence, Principal Investigator, 125k).
- 1998-1999 Leverhulme Trust Fellowship, Quasi-credit in LDCs (15k).
- 1998 Keele Research Incentive Scheme, 1999: Quasi-credit and LDCs (5k).

External Research Talks

Invited Talks

2024: Durham University, January.
 2017: Umeå University, Sweden, February.
 2015: Heriot-Watt University, November. University of Hull, February.
 2014: University of Manchester, September; Money, Macro, Finance Conference, Durham University, September.
 2013: University of Liverpool, November; University of Oslo, September; Yonsei University, Seoul, Korea, June; York Game Theory Symposium, University of York, June.
 2012: Workshop on macroeconomic applications of dynamic games and contracts, Stony Brook University, New York, July; Keele University, February; University of Strathclyde, Glasgow, February; City University of London, January.
 2011: Durham University, October.
 2010: Transnationality of Migrants (TOM) Workshop on Frontiers of Migration Research, Bamberg, July; University of Dundee, March.
 2009: University of Surrey, November; Workshop on the theory and empirics of risk sharing, Gremaq, Toulouse School of Economics, October; Regional Studies Research Network Workshop on Geographical localisation, intersectoral reallocation of labour and unemployment differentials, Rimini, May.
 2008: University of Warwick, November; 2nd Workshop in applied microeconomics, University of St Andrews, September.
 2007: Canadian Macroeconomic Study Group, Ottawa, November; Durham University, November; Workshop on risk sharing, Toulouse School of Economics, September; University of Bristol, May; University of Sheffield, May.
 2006: University of California at Berkeley, March; University of Manchester, February.
 2004: Queen's University Belfast, May; University of Birmingham, May.
 2003: Durham University, November; Game Theory Workshop, University of Nottingham, April; University of Newcastle, April.
 2002: Birkbeck College London, March; University of Surrey, February.
 2000: South Bank University, May; University of Nottingham, May.
 1999: University of Birmingham, November; Department of Agricultural Resource Economics, University of California at Berkeley, April.
 1997: Durham University, April.
 1996: University of Liverpool, June; University of Loughborough, May; Institute for Empirical Macroeconomics at the Federal Reserve Bank of Minneapolis, Minnesota, April.
 1995: University of Manchester, April.
 1994: Summer Research Workshop on New Macroeconomics, University of Warwick, July; University of Sheffield, April; Keele University, February.
 1993: University of Aberystwyth, May; University of Exeter, November; University of Salford, January; 1st Summer School in Economic Theory at La Sorbonne, Paris, April; Centre for Operations Research and Economics at the University of Louvain-la-Neuve, Belgium, April.

- Conference* 2021: Royal Economic Society, Belfast, April.
- Talks* 2019: European Meeting of the Econometric Society, Manchester, August.
 2017: National Bureau of Economic Research Summer Institute, Boston, July; Society for Economic Dynamics, Edinburgh, June; Society for the Advancement of Economic Theory, Faro, June.
 2016: Theoretical Research in Development Economics conference, Duke University, April.
 2015: Society for the Advancement of Economic Theory, Cambridge, UK, July.
 2012: Journées d'Économie Publique Louis-André Gérard-Varet, Marseilles, June.
 2011: European Trade Study Group, Copenhagen, September; Society for Economic Dynamics, Ghent, July; Society for the Advancement of Economic Theory, Faro, June; Econometric Society Winter Meetings, Denver, January.
 2009: Society for Economic Dynamics, Istanbul, July; Canadian Economic Association, Toronto, May.
 2008: Society for Economic Dynamics, Massachusetts Institute of Technology, July.
 2006: European meeting of the Econometric Society, Vienna, August; European Economic Association, Vienna, August; Canadian Economic Association, Montreal, May; Royal Economic Society, Nottingham, April.
 2005: Society for Economic Dynamics, Budapest, June.
 2004: European Economic Association, Madrid, August.
 2003: European meeting of the Econometric Society, Stockholm, August; Game Theory Workshop, University of Nottingham, April.
 2001: European meeting of the Econometric Society, Lausanne, August.
 1999: European meeting of the Econometric Society, Santiago de Compostela, August.
 1995: 7th World Congress of the Econometric Society, Tokyo, August.
 1993: Royal Economic Society, York, April.
 1990: 6th World Congress of the Econometric Society in Barcelona, August.
 1986: European meeting of the Econometric Society, Budapest, August.
 1985: 5th World Congress of the Econometric Society in Cambridge, Massachusetts, August.
 1984: European meeting of the Econometric Society, Madrid, August.

Honourary and Visiting Positions

<i>Honorary Positions</i>	2012-2021. Member, Network in Applied and Theoretical Economics. 2011-2013. Honorary Fellow, University of Manchester. 2008-present. Senior Fellow, Rimini Centre for Economic Analysis. 1996-1998 and 2001-2004. Honorary Fellow, University of Liverpool.
<i>Visits</i>	2013. Centre for the Study of Equality, Social Organisation and Performance, University of Oslo, Norway, September; Department of Economics, Yonsei University, South Korea, June 2012. Department of Agricultural Resource Economics, University of California at Berkeley, April-May. 2011. Department of Economics, University of Vienna, December; RECent (Center for Economic Research), Department of Political Economy, University of Modena and Reggio Emilia, May. 2006. Department of Agricultural Resource Economics, University of California at Berkeley, February-April. 1996. Institute for Empirical Macroeconomics, Federal Reserve Bank of Minneapolis, April. 1992. Centre for Operational Research and Economics, Louvain-la-Neuve, April.

Teaching Experience

<i>Current Courses</i>	Asset Pricing (level 11, circa 30 students); Introductory Financial Economics (level 8, circa 350 students).
<i>UG Courses</i>	Corporate Finance; Econometrics; Economics of Asymmetric Information; Game Theory; Intermediate Finance; International Economics; Introductory Economics; Labour Economics; Management Science; Managerial Economics; Mathematical Economics; Microeconomics; Modelling the Financial Crisis; Options and Futures; Quantitative Methods.
<i>PG Courses</i>	Contract Theory; Corporate Finance; Game Theory; Financial Mathematics; Financial Instruments; Asset Pricing; Microeconomics; Regulatory Economics; Topics in Economic Theory. Research Methods in Mathematical Economics and Microeconomics.
<i>UG Supervision</i>	Areas supervised: Charitable giving; Competition policy; Economics of climate change; Economics of gambling; Economics of marriage; Economics of sport; Tax non-compliance; Deregulation; Migration; Social networks; Inequality; Housing markets.
<i>PG Supervision</i>	Topics include: Calendar effects; Credit default swaps; Executive compensation; Financial distress; Capital structure; Mergers & acquisitions; Real estate investment trusts; Transfer pricing; Third order price discrimination; Consumption and house prices; Portfolio management; Risk-sharing and migration; Credit cycles; SIR model; Microfinance institutions.

- Internal Ph.D. Examining*
2020. Sean Ferguson (Edinburgh), Essays on the selection and design of information structures.
2016. Ibrahim Inal (Edinburgh), Essays on beliefs and knowledge.
2014. James Best (Edinburgh), Social learning, cooperation, asset markets and human capital.
2013. Nicholas Myers (Edinburgh), Trade costs and national borders.
2006. Petar Bozhinov (Keele), Constant relative risk aversion and rent-seeking games.
2005. Ji-Tian Jeng (Keele), Bayesian aggregative games.
2002. Clare Kelly (Keele), Consumption smoothing in the short-run: effects of uncertainty and imperfect capital markets.
2001. Fabiano Vergari (Keele), Finance and development; an analysis of the role of equity markets and the banking sector in developed and lesser-developed countries.
- Doctoral Supervision*
- Sikandar Singh Soin (Data Analyst, Ministry of Justice): Two Models of Institutional Design in Crime and Education, PhD, University of Edinburgh, 2022 (passed with revisions).
- Pongpalin Yingchoncharoen (Lecturer, Thammasat University, Thailand): Growth and Inequality, MRes, University of Edinburgh, 2018.
- Aodi Tang (Economist, UBS): Essays on Contracting for Experimentation, PhD, University of Edinburgh, 2018 (passed with minor revisions).
- Sareh Vosooghi (Assistant Professor, KU Leuven, Belgium): Essays on Information and Transboundary Problems in Environmental and Resource Economics, PhD, University of Edinburgh, 5 September 2016 (passed with minor revisions).
- Rongyu Wang (Lecturer, Shandong University of Arts, China): Games of Incomplete Information, PhD, University of Edinburgh, 1 August 2016 (passed without revisions).
- Vasco Filipe de Figueiredo Alves (Lecturer in Economics, University of Birmingham): Essays in Strategic Queuing, PhD, University of Edinburgh, 29 January 2016 (passed with minor revisions).
- Michael King: (Lead, Analysis and Evaluation Team, National Physical Laboratory, London): A Rationale for Tying Merchants' Membership of Platforms Serving Independent Markets, PhD, University of Manchester, 2011 (passed with minor revisions).
- Ioannis Lazopoulos (Senior Lecturer in Economics, University of Surrey): Debt Contracts and Bank Runs, PhD, Keele University, 2006 (passed without revisions, awarded with commendation).
- Alex Dickson (Reader in Economics, University of Strathclyde, Glasgow): On Strategic Marshallian Analysis: Shapley and Shubik meet Marshall and Cournot, PhD, Keele University, 2005 (passed with minor revisions, awarded with commendation).
- Svetlana Andrianova (Associate Professor in Economics, University of Leicester): Essays on Collusion, Corruption and Reforms, PhD, London South Bank University, 2001 (passed without revisions).
- Other Examining*
- 2008-2012. Chief Examiner for Corporate Finance, Institute of Financial Services, ifs University College, currently, The London Institute of Banking & Finance.

Service to the Discipline

Journal Service

Guest Editor, *Games*, Special Issue on Contract Theory, 2013. Contributors include: Oliver Hart, Joel Watson, Xiaojian Zhao.

Associate Editor, *Quantitative and Qualitative Analysis in Social Sciences*, 2006-2011. Refereeing for: *American Economic Review*, *The Economic Journal*, *Econometrica*, *International Economic Review*, *Journal of Economic Theory*, *Journal of the European Economic Association*, *Journal of Political Economy*, *Quarterly Journal of Economics*, *Review of Economic Studies*.

Refereeing for other journals: *American Economic Review: Insights*, *Berkeley Electronic Journal of Theoretical Economics*, *Bulletin of Economic Research*, *Canadian Journal of Economics*, *Computational Economics*, *Ecological Economics*, *Economics Bulletin*, *Economic Inquiry*, *Economica*, *Economics: The Open-Access, Open-Assessment E-Journal*, *Economics Letters*, *Economic Theory*, *Education Economics*, *Ekonomia*, *Environmental and Resource Economics*, *European Economic Review*, *European Journal of Finance*, *European Journal of Political Economy*, *FinanzArchiv / Public Finance Analysis*, *International Journal of Finance and Economics*, *Games and Economic Behavior*, *International Journal of Industrial Organization*, *International Sociology*, *International Tax and Public Finance*, *Journal of Development Economics*, *Journal of Development Studies*, *Journal of Economic Behavior and Organization*, *Journal of Economic Dynamics and Control*, *Journal of Economic Surveys*, *Journal of Institutional and Theoretical Economics*, *Journal of International Economics*, *Journal of Labor Economics*, *Journal of Monetary Economics*, *Journal of Money, Credit and Banking*, *Journal of Pension Economics and Finance*, *Journal of Population Economics*, *Journal of Transport Economics and Policy*, *Managerial and Decision Economics*, *The Manchester School*, *Metroeconomica*, *Oxford Economic Papers*, *Rand Journal of Economics*, *Review of Economic Dynamics*, *Review of Industrial Organization*, *Scandinavian Journal of Economics*, *Scottish Journal of Political Economy*, *Social Problems*, *Southern Economic Journal*, *Stochastic Processes and their Applications*, *Theoretical Economics*.

Book refereeing for: Addison Wesley, Cambridge University Press, Harper-Collins, MIT Press, Pearson Education.

External Examining

B.A. Economics, University of Nottingham, 2017-2019; B.A. Economics, University of Warwick, 2016-2019; M.Sc. Economics, London School of Economics, 2012-2015; B.A. Economics, University of Essex, 2006-2009; B.Sc. and M.Sc. Economics, University of Birmingham, 2005-2009; M.Sc. Economics, University College London, 2003-2007; B.A. and M.A. Economics, University of Leicester, 2002-2005; Postgraduate Certificate in Finance, Birkbeck College London, 2001-2005.

Research Evaluation

Member of the Economics and Econometrics Sub-panel for the UK Research Excellence Framework 2021.

External Reviewing

External Panel Member for Teaching Review of the Business School, University of Aberdeen, November 2022. External Assessor for Periodic Review of the Department of Economics, University of York, April 2017. External Assessor for Chair in Economics, University of Pretoria, May 2011. Member of Research Review Team, Durham Business School, May 2009; External Advisor, Periodic Review, School of Social Sciences, University of Manchester, April 2007; External Assessor, London School of Economics External Study Programme, April 2005.

- Peer Reviewing* Carnegie Trust; British Academy; Economic and Social Research Council; Engineering and Physical Sciences Research Council; Leverhulme Trust; Nuffield Foundation; National Science Foundation, USA; Social Sciences and Humanities Research Council, Canada; The Austrian Science Fund, Austria.
- Congresses* Program Committee Member: Royal Economic Society 2009 Surrey; Royal Economic Society 2008 Warwick; Royal Economic Society 2007 Warwick; Royal Economic Society PhD Presentation Meetings London 2006 and 2007; European Economic Association 2005 Amsterdam; European Economic Association-Econometric Society European Meetings 2004 Madrid; European Economic Association-Econometric Society European Meetings 2003 Stockholm; Local Organizer, Society for Economic Dynamics, Edinburgh, June 2017; Session Organizer, Society for Advancement of Economic Theory Meetings, Paris, June 2013; Session Organizer, Society for Advancement of Economic Theory Meetings, Faro, Portugal, June 2011; Manchester and Society for Advancement of Economic Theory Workshop in Economic Theory, May 2010; Midland Game Theory Workshop, Manchester, June 2009; Workshop on Limited Commitment, Edinburgh, September 2005; Midlands Game Theory Workshop, Keele, May 2004.
- Committee Membership* Elected member of the Royal Economic Society Council, 2016-2021; Member of Scientific Committee (Economics, Econometrics and Statistics) for the Chartered Association of Business Schools Academic Journal Guide, 2013-24. Member of Economic and Social Research Council Peer Review College, 2010-2022. Member of Institute of Financial Services, School of Finance Academic Board 2008-11. Secretary to Conference of Heads of University Department of Economics (CHUDE), 2007-2012 and Steering group member, 2005-2013. Advisor to Steering Group for ESRC International Benchmarking of Economics, 2007-8.
- Ph.D. Examining* 2017. Oscar Nieto-Cerezo (University of Liverpool), On optimal risk and benefit sharing in engineering projects.
 2016. Krzysztof Brzezinski (University of Manchester), Essays on effects of uncertainty on competition among firms and political parties.
 2010. Yuki Kumagai (University of Nottingham), Networks and markets: repeated trade, self-enforcing cooperation under uncertainty and institutional interaction.
 2007. Sinan Lu (University of Nottingham), Capital structure and bankruptcy; Honggang Qiu (University of York), Optimal collusion-proof contracts.
 2005. Saksit Thananittayaudom (University of Nottingham), Essays on imperfect competition, research and development, and financial constraints.
 2001. Cavelle Dawn Creightney (University of Warwick) Essays on intra-household bargaining, risk-sharing, and the optimal balance between private insurance and the welfare state.
 2000. Anna Maria Cristina Menichini (University of York), Costly auditing in models with commitment and no commitment.
 1997. Shirley Jin-Shien Ho (University of Warwick), Asymmetric multistage models of R&D : technology, adoption, contracts and protection.
 1996. Jonathan Rougier (Durham University), Price change and trading volume in a speculative market.

Service to Department/University

<i>Department</i>	<p>Convenor Pre-Honours Examination Board (Edinburgh), 2021-2023. Convenor Honours Examination Board (Edinburgh), 2019-2023. Unit of Assessment REF-coordinator (Edinburgh), 2019- Interim Head of School (Edinburgh), 2017-2018. Deputy Head of School (Edinburgh), 2014-2017. PhD Director (Edinburgh), 2013-2017. Director for Career Development and Capacity Building, MacCaLM Project (Edinburgh), 2015-2018. Member of Local Organizing Committee for the Society for Economic Dynamics Conference in Edinburgh, 2016-2017. Convenor of Postgraduate Board of Studies (Edinburgh), 2016-2017. Member of Teaching and Learning Committee (Edinburgh), 2013-2023. Director of Postgraduate Research (Keele), 2006-2008. Director of Research (Keele), 2005-2008. Head of Department (Keele), 2001-2004. Examinations Secretary (Keele), 2000. Director of Management Science Principal (Keele), 1998-1999. Member of Learning and Teaching Committee (Keele), 1997-2004. Director of Finance Principal (Keele), 1997-1998. Chartered Institute of Management Accountants Liaison Officer (Keele), 1997-1999. Member of Research Committee (Keele), 1996-2008. Seminar Coordinator (Keele), 1996-2000. Postgraduate Admissions Tutor (Liverpool), 1995-1996. Organized Staff-Student Conference (Liverpool), 1994-1995. Undergraduate Admissions Tutor (Liverpool), 1991-1995.</p>
<i>University</i>	<p>Member of Edinburgh Futures Institute Working Group on Politics, Communities and Infrastructure (Edinburgh), 2016-2017. Member of Postgraduate Administration Review Project Board (Edinburgh), 2016-2017. Member of College Postgraduate Studies Committee (Edinburgh), 2013-2017. Member of the Management Board, Research Institute of Public Policy and Management (Keele), 2005-2008. Member of Appointments Panel for Head of Management School (Keele), 2005. Chair of University Plagiarism Committee (Keele), 2004. Member of Quality Assurance Committee for Complementary Studies Programme (Keele), 2004. Member of Appointments Panel for Dean of Faculty (Keele), 2004. Member of Board of the Graduate School of Social Science (Keele), 2001-2004. Member of Senate (Keele), 2001-2004. Member of Management Committee of Graduate School of Social Sciences (Liverpool), 1993-1996.</p>