

## Curriculum Vitae

**Cathal O'Donoghue**

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## 1. EDUCATION

### Education and Professional Qualifications

- Executive Education Program (Promoting Economic Development in Rural Areas), Boston College, 2012
- MPA, Warwick Business School, 2007-2010
- Chartered Scientist, 2010. The Science Council (UK), 2010.
- Executive Education Program (Agribusiness), Harvard Business School, 2007
- Advanced Diploma (Management), Leeds Business School, 2006.
- Ph.D. (Social Statistics and Economics of Social Policy), London School of Economics, UK, 2001 (Examiners: Prof. Sir A.B. Atkinson, Prof. H. Joshi, Supervisors: Prof. Jane Falkingham, Dr. Celia Phillips).
- Chartered Statistician, Royal Statistical Society, London, 1998.
- M.A. (Economics), University College, Dublin, Ireland, 1994.
- M.Sc. (Applied Statistics), Wolfson College, Oxford University, UK, 1993.
- B.Sc. (Mathematics and Statistics), University College, Cork, Ireland 1992.

### Academic Awards

- Distinguished Contribution to Public Policy Award, Agricultural Economics Society, 2015
- Barrington Medal, Statistical and Social Inquiry Society of Ireland, 2005/2006.
- London School of Economics - ESRI Fellowship 1995-1999.
- Oxford University - Prendergast Bursary 1993.
- University College, Cork - College Scholar 1989-1992, Undergraduate College Scholarship 1990, Irish Life Scholarship in Statistics 1990-1992.

## 2. EMPLOYMENT

### Employment

- Head, Rural Economy and Development Programme, Teagasc, Athenry, Ireland, 2010-.
- Chief Executive, Commission for the Economic Development of Rural Areas, 2012-2013
- Head, Rural Economy Research Centre, Teagasc, Athenry, Ireland, 2005 – 2010
- Senior Principal Economist, Teagasc, Athenry, Ireland, 2005 –
- Director, Economics of Social Policy Research Unit, NUI, Galway, 2003 - 2005
- Lecturer, Dept. of Economics, National University of Ireland, Galway 2002-05
- Research Officer, Dept. of Applied Economics, Univ. of Cambridge, 1996-2001
- Lecturer, Faculty of Economics and Politics, University of Cambridge, 2000-2001
- Lecturer, Downing and St. Catharine's Colleges, Cambridge, 1997-2001
- Statistician. Department for Education and Employment, London, 1995-1996.
- Research Assistant. Economic and Social Research Institute, Dublin, 1993-1995.
- Student Actuary, Irish Life Assurance, Dublin 1990-1992.

**Adjunct Appointments**

- Professor of Policy Modelling (Extraordinary-Adjunct), University of Maastricht, 2013 -
- Professor (Adjunct), University College, Dublin, 2012 –
- Professor (Adjunct), Discipline of Economics, National University of Ireland, Galway, 2012 -

**Other Teaching**

- Visiting Professor, Graduate Program in Economics, University of Turin 2004-5
- Visiting Professor, European Doctoral Program in Public Policy, University of Maastricht 2005-

**Research Impact**

- Top 6% Global Repec rankings of Economists – 7<sup>th</sup> highest of Irish based Economists (February 2015) - <http://ideas.repec.org/top/top.person.all.html>
- Top 3.5% globally in Repec rankings of Economists in terms of paper downloads in the past 12 months (February 2014) - <http://ideas.repec.org/top/top.person.downloads.html#pod4>
- Google Scholar 2044 Citations (Ever); 412 (2014); h-index 27.

**Academic Affiliations**

- Research Fellow, IZA Bonn, 2002-
- Research Associate Department of Applied Economics, ULB, Brussels, 2001-.
- Hon. Research Associate, Microsimulation Unit, DAE, Cambridge Univ. 2002-
- ICER Research Fellow, University of Turin, 2002-.
- Research Fellow, Centre for Household, Income, Labour and Demographic Economics (CHILD), 2004-.
- Sage Research Fellow, London School of Economics, 2002 -.

**Visiting Scholar**

- University of Turin, 2002-2005.
- The London School of Economics, 2002.
- Athens University of Economics and Business, 2000,
- The Swedish Ministry of Finance, 1999,2000,
- The German Institute of Economic Research (DIW), 1997,
- Barcelona Autònoma University, 1998.
- Cornell University, 1997
- University of Rome “Tor Vergata”, 1997-1998,
- DELTA - the economic research laboratory of ENS/EHESS, Paris 1996-2001,

**Membership of Academic Associations**

- International Microsimulation Association
- International Institute for Public Finance
- Association of Public Economic Theory
- European Society of Population Economics
- Society of Labour Economics
- Institute for Fiscal Studies
- Irish Economics Association
- Agricultural Economics Society of Ireland
- European Agricultural Economics Society
- Royal Statistical Society

**Membership of Committees of Academic Associations**

- President, International Microsimulation Association, 2011-2013, 2013-2015
- Board Member, International Microsimulation Association, 2011-2013, 2013-2015
- Board Member, Agricultural Economic Society of Ireland 2009 -
- Irish Environmental Economics Network 2009-2011
- Irish Rural Studies Association 2009-2011
- Sociology Association of Ireland Research Committee 2011-2013
- Agricultural Economics Society Executive Committee 2014-2018

**3. RESEARCH LEADERSHIP**

As my career has progressed, I have spent more and more of my time in strategic leadership and management. While the management of the Rural Economy and Development Programme, which is a medium sized research and knowledge transfer institute, is a relatively large task, I believe my most important contribution has been that of leading change within the Programme. Over my period as Head of Centre and Programme, research funding has increased and publishable output has risen four fold. I have also coordinated a structural change in our surveys department. At the wider national level, I have co-organised and co-authored the Teagasc foresight consultation exercise and report for the Agri-food sector in Ireland.

Within the research community, I also sit on the boards of 3 national societies and am a member of the advisory board of a number of projects and research centres (see below).

**Strategic**

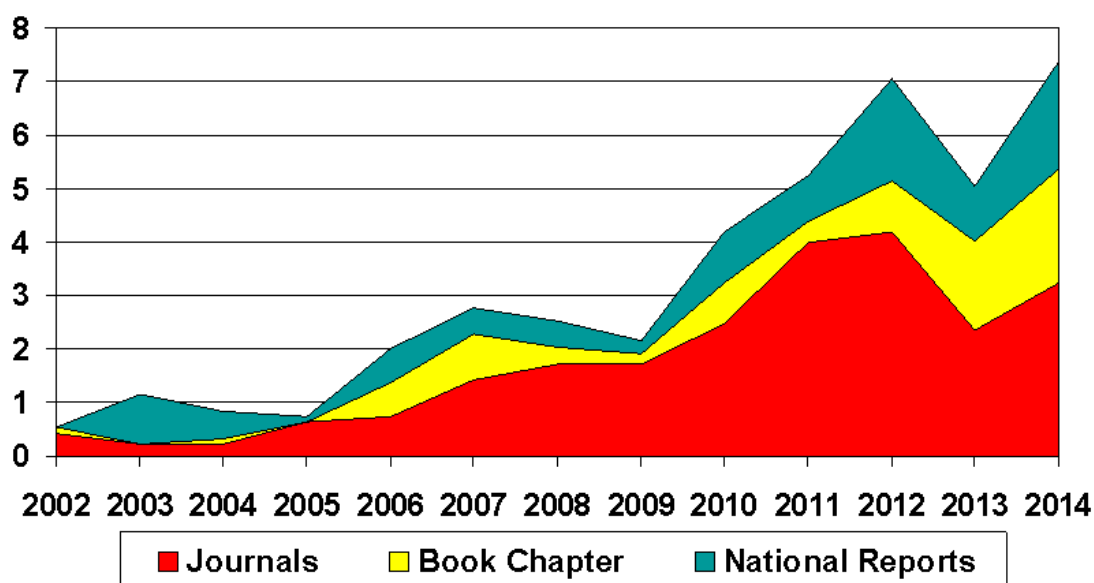
- Chairman, Agri-Food Business and Rural Development Programme, Teagasc-UCD Agricultural Alliance.
- Board Member, Agricultural Economics Society of Ireland
- Board Member, Irish Rural Studies Association
- Board Member, Irish Environmental Economics Network
- Member of Organising Committee Teagasc 2030 Foresight and co-author of report

- Lead author, Teagasc submission to National Agri-Food Strategy 2015 and of Land Use Strategy 2014
  - Member Teagasc ICT Policy Committee
- Board Member Irish Centre for Rural Transformation and Sustainability
- Coordinated evaluation of Farm Surveys department, wrote and implementing strategic review of Department, involving the contracting out of field work

### Management

- Board Member, Teagasc Research Directorate, which has strategic oversight of a research programme of about €62million and research income of €26 million last year
- Manage teams in 3 departments of 15 permanent research staff, 15 knowledge transfer staff plus about 45 other contract research, survey, managerial and administrative staff and 25 Walsh (PhD) Fellows students, including facilitating Performance Management and Development System (PMDS) HR system
- Responsible for the delivery of Rural Development and Farm Management services across area units nationwide.
- Manage Budget of about €6m.
- Rural Economy increased refereed publications from 9 in 2005 to over 80 in 2014.
- Project Managed Athenry Campus Building Refurbishment (€1.7m project)
- Responsible for annual Business Planning and performance monitoring and general corporate governance requirements
- Member of the IDARI EU FP5 framework project management committee
- Organised 3 annual stakeholder conferences per annum to disseminate results on the Economics of Agriculture, Rural Development and Agri-Environment (200-400 attendees)
- Quality Assurance and Annual collection of National Farm Survey (cost €2.5m). Developed information systems to reduce cost of survey by 35%.

**Figure 1. REDP Publications per Researcher 2002-2014 (Head since 2005)**



#### 4. EXTERNAL APPOINTMENTS

- Chair, Scientific Advisory Committee, Horse Sport Ireland, 2015 -
- Member, International Science Advisory Board, The Ryan Institute, 2015 -
- Member, Irish Forum on Natural Capital 2015-
- Member of the Irish Economics of the Water Framework Directive Working Group 2015-
- Member CGIAR (€1bn pa international agency) Fund Council, 2013-
- Chairman, Irish Sport Horse Industry Strategy Committee, 2013-2014.
- Chairman, FH2020 Agri-Food Employment Multiplier Working Group, 2012
- Member, Rural Economy Evaluation Committee, Clare Rural Development Company, 2011 - 2013
- Chairman, Agri-Food Business and Rural Development Joint Working Group, Teagasc-UCD Agricultural Alliance, 2011 -
- Member, Business Studies Panel, Review of Research Degree Programmes, Higher Education and Training Awards Council (Ireland), 2011.
- Member Irish Rural Development Programme 2007-2013 Monitoring Committee 2010 -
- Member Stakeholder Committee, DERREG - Developing Europe's Rural Regions in the Era of Globalization - EU Framework Project 2010 - 2011
- Member Galway 2040 Vision Committee (Agriculture, Food and Rural Development) 2010
- Member Steering Committee, RurAgri EU Framework Project 2010-2011
- Advisory Board, Rural Research Group, Department of Community, Rural and Gaeltacht Affairs, 2007 - 2010
- Advisory Board, to the project 'Establishing a rural evidence base to inform rural policy' in Northern Ireland (QUB and DARDNI), 2009 - 2011
- Advisory Board, Irish Social Science Platform, 2008-
- Executive Board, Socio-Economics of the Marine Research Unit (NUIG), 2008 -
- Executive Board, Irish Centre for Rural Transformation and Sustainability (NUIG), 2008-2011
- Department of Environment, National Consultative Committee on Landscape Strategy, 2008-2010
- Food-West Partnership, Member, 2007-2008
- Member of the EU Standing Committee on Agricultural Research (SCAR) working group on a Common Research Agenda for EU Rural Policy, 2006 - 2008
- Irish Social Sciences Data Archive, Board Member, 2003-2008
- Royal Irish Academy, National Economic and Social Sciences Committee, 2003-2004.
- Department of Work and Pensions UK (DWP), Expert Group on Economic Demography, Member, 2002-2005.
- Department of Work and Pensions UK (DWP), Expert Group on Data Fusion, Member, 2002.

#### 5. EXTERNAL RESEARCH FUNDING

Key to developing my research programme, described below, which is quite labour and data intensive has been raising resources through competitive external research funding. I have progressed from co-writing and managing research

proposals in Cambridge to acting as the Principal Investigator in NUI Galway. Since joining Teagasc, I have taken a broader strategic leadership role, monitoring research calls and bringing teams together, project managing funding proposals, and giving direction. This collaborative leadership role has enabled the centre to quadruple research funding from €350k per annum prior to my joining the Centre to nearly €1m at present. The economic downturn has seen external funding decrease as there have been few external funding calls in 2008/2010.

### **Teagasc Rural Economy Research Centre 2006-Present ~ €9m**

- Competitive funding of PhD fellowships – circa €500k pa

#### Externally funded research projects

- 2005 - €350k
- 2006 – €700k
- 2007 - €1000k
- 2008 - €1000k
- 2008 - €700k
- 2010 - €750k
- 2011 - €950k
- 2012 - €1100k
- 2013 - €1300k

### **NUI, Galway 2002- Present - €4.5m**

- MiDAL – Towards a Development of a dynamic Microsimulation toolbox and the complementary implementation of data needed for dynamic microsimulation of pensions in Luxembourg.
- Marine Beaufort Research award, joint with Teagasc, €1.7m
- Teagasc Walsh PhD Fellowship, 7 x €51k
- EU FP6 PhD Fellowship 2004-2005, €51k
- Combat Poverty PhD Fellowship 2005-2008, €51k
- EU 6<sup>th</sup> Framework Project AIM (Adequacy of Old Age Income Maintenance in the EU) €2m (NUIG - €30k)
- Combat Poverty Agency (Cost of a Child) 2005-2007, €30k
- Combat Poverty Agency (Pensioner Poverty in Ireland) 2004-2005, €30k
- San Paolo IMI (Social Assistance and Labour Supply in Europe) 2004-2007. €250k (NUIG - €20k)
- Inter-American Development Bank (Brazilian Household Micro-Simulation Model - BRAHMS). 2004, €15k
- EU 5<sup>th</sup> Framework Project IDARI (Integrated Development of Agricultural and Rural Institutions in CEEC's), €2m (NUIG - €0.7m)
- Department of Agriculture Research Stimulus Fund (Simulation Model of the Irish Local Economy - SMILE. 2002-2005, €200k (NUIG - €90k)
- NUIG Millennium Travel Fund 2002, 2004. €2k
- NUIG Millennium Fund 2002, 2004. €15k
- Commerce Faculty Fund 2002-2004. €3k

### **University of Cambridge 1996-2002**

- EU 5<sup>th</sup> Framework Project MICRESA (Micro Analysis of the European Social Agenda) project, financed by the European Commission under the Improving Human Potential programme, 2002-2005. €2m
- EU project on Work Incentives, coordinated by Alphametrics, 2001-2002, €150k
- EU TSER Project, EUROMOD, 1998-2001. €1.5m
- Cambridge Econometrics. Irish module of E3ME (Economics, Environment, Energy) Macro Economic Model, 1998, €20k
- EU TSER Project, EUROMOD Preparatory Project, 1996-1997, €150k

## 6. RESEARCH PROGRAMME

My main research interest is in the development and application of analytical tools to aid the design, evaluation and improvement of public policy. Only with the availability of recent datasets and increased computing power has this field taken off.

Given the potential scope of the methodology, I have spent a substantial amount of time developing PhD students and working with international collaborators to take advantage of the possibilities of the technology. Developing these generic technologies and databases has allowed me to develop a system similar to laboratories in the physical sciences, where teams of PhD students and post-docs can work together on related research programmes, allowing me to supervise quite a large number of students at the same time.

As part of my PhD, I developed the Life-cycle Income Analysis Model (LIAM) is now being used for pensions, higher education financing, labour market and demographic analysis. It is also being used as the basis of comparative pension's analysis in the AIM EU FP6 research project and comparative indirect tax analysis in the EUROMOD EU FP4 research project and the AIM-AP EU FP6 project. The framework has also been applied to develop the UK government's Pensim2 model that was used to prepare the Pensions Commission Report and White paper on pensions in the UK and was used to assess the impact of the Irish Green Paper on pensions.

I developed an EXCEL based modelling system (XLSIM) to teach microsimulation techniques to graduate students in NUI Galway, Turin and Maastricht, forming the basis of a text book due for completion this Summer. Its flexibility has been used as the basis for the development of models by PhD students for Brazil, Nigeria, Sri Lanka, Pakistan, Estonia and Lithuania and 6 other EU countries, financed by the Inter-American Development Bank, the World Bank and various EU framework projects.

In conjunction with colleagues in the University of Leeds, Teagasc and PhD students I have developed a spatial microsimulation model of the Irish local economy (SMILE) to assess the impact of rural, regional, agricultural and environmental policy. This model formed the basis for research underpinning the report of the Commission for the Economic Development of Rural Areas.

Current ongoing projects include:



- Bio-physical modelling of economic and environmental outcomes from agriculture
- Linking this SMILE model to an environmental data to assess the economic impact of the EU's water framework directive on the Irish agricultural sector.
- Project to develop extension services targeted at diversifying farmer and part-time farmer
- Soil Information System – Predictive Mapping of Soils to complete the National Soils Map of Ireland
- Landscape character assessment – using survey work and benefit transfer techniques to classify the character of landscape in Ireland
- Weather, Risk and Agriculture
- Modelling greenhouse gas emissions at the micro-level and assessing mitigation strategies
- Evaluating changes to the EU's Less-favoured areas subsidy

#### **Publications: Rejected and Under Review for Submission Elsewhere**

1. Grealis, E., C. O'Donoghue, R. Fealy, R. Fealy. Spatial Modelling of Agricultural Greenhouse Gas Emissions for Ireland.
2. O'Shea, Robert, James Breen, Cathal O'Donoghue, Mary Ryan, Rogier Schulte, Levers to improve the impact of farm-level decisions on Greenhouse Gas emissions mitigation..
3. Aksana Chyzheuskaya, Cathal O'Donoghue. Using a Spatial Microsimulation Model to Estimate the Potential Economic Impact on Agriculture of Possible Freshwater Pearl Mussel Protection Strategies.
4. O'Donoghue, Cathal, Karyn Morrissey, Conditional Independence, Calibration and the Generation of Synthetic Spatial Microdata. Computers, Environment and Urban Systems, Special Issue on Spatial analysis with census data: emerging issues and innovative approaches

#### **Publications: Submitted for Peer Review**

##### *Journal Articles*

1. O'Donoghue, C., D.M. Sologon, J. Loughrey. Decomposing the Drivers of Changes in Inequality during the Great Recession in Ireland, *Journal of Economic Inequality*
2. Cawley, A.P., O'Donoghue, C., Heanue, K. and M. Sheehan. The Impact of Extension Services on Farm Level Outcomes: An Instrumental Variable Approach. *Journal of Agricultural Economics*
3. Chyzheuskaya, Aksana, Diarmuid O'Donovan, Raghavedra Srivinas, Martin Cormican, Martina Prendergast Cathal O'Donoghue, Dearbháile Morris. Estimating the Cost of a Cryptosporidiosis Outbreak in Galway in 2007: A Microsimulation Approach. *Emerging Infectious Diseases*
4. Chyzheuskaya, Aksana; Diskin, Michael; Crowe, Mark; Hennessy, Thia; O'Donoghue, Cathal; O'Neill. Microsimulation Modelling of the Economic Impact of Varied Levels of Fertility in Dairy Herds on Farm Income in Ireland. *Journal of Dairy Science*.
5. O'Donoghue, C., D.M. Sologon, J. Loughrey. Drivers of Changes in Inequality during the Great Recession in Ireland using the Regression-Based Decomposition Approach, *Economic and Social Review*

##### *Book Chapters*

1. Miller, Ana Corina, Liam Connolly and Cathal O'Donoghue, Changes in Farm Income 1994-2008 in O'Donoghue, C., A. Kinsella and F. Thorne (eds) *Current Economic Issues in Irish Agriculture*. Cork: Oak Tree Press.
2. Gillespie, P., Chyzheuskaya Aksana, Trevor Donnellan, Thia Hennessy, and Cathal O'Donoghue Trends in the Dairy Sector in O'Donoghue, C., A. Kinsella and F. Thorne (eds) *Current Economic Issues in Irish Agriculture*. Cork: Oak Tree Press.
3. Kilcline, K., Waters Ronan, James Breen, Liam Dunne, Kevin Hanrahan, Anne Kinsella, Cathal O'Donoghue Trends in the Beef Sector in O'Donoghue, C., A. Kinsella and F. Thorne (eds) *Current Economic Issues in Irish Agriculture*. Cork: Oak Tree Press.
4. Kilcline, K., Waters Ronan, James Breen, Liam Dunne, Kevin Hanrahan, Anne Kinsella, Cathal O'Donoghue. Trends in the Sheep Sector in O'Donoghue, C., A. Kinsella and F. Thorne (eds) *Current Economic Issues in Irish Agriculture*. Cork: Oak Tree Press.
5. Murphy, Geraldine, Daragh Clancy, Cathal O'Donoghue, Gerry Quinlan, Fiona Thorne "Trends in the Tillage Sector" in O'Donoghue, C., A. Kinsella and F. Thorne (eds) *Current Economic Issues in Irish Agriculture*. Cork: Oak Tree Press.

#### *National Reports*

#### **Publications: Under Revision**

#### *Journal Articles*

1. Murphy, Geraldine, Cathal O'Donoghue, Stephen Hynes,. Modelling the Participation Decision in Agri-Environmental Schemes. *Journal of Agricultural Economics*
2. Morrissey, K., C. O'Donoghue, A. Vega. The Spatial Impact of Commuting on Income: A Spatial Microsimulation Approach. *Applied Spatial Analysis and Policy*.
3. Hynes, S., C. O'Donoghue and Sologon, D., Farm Income Mobility in Ireland 1994-2001, *Irish Journal of Agriculture and Food*.
4. Cathal O'Donoghue, Alistair McKinstry, Stuart Green, Reamonn Fealy, Kevin Heanue, Mary Ryan, Kevin Connolly, JC Desplat, Brendan Horan, Paul Crosson. Developing a Big Data Analytical Solution to Low Farmer Engagement with Financial Management, *International Agriculture and Food Management Review*.
5. Aksana Chyzheuskaya, Cathal O'Donoghue. The EU Water-Framework Directive and the Challenge of Improving the Impact of Agriculture on Water Quality. *Water Economics and Policy*
6. Abid, Y, Doherty, E., Flannery, D., O'Donoghue, C. Eliciting Individual Preferences for Pension Reform *Journal of Pension Economics and Finance*
7. Carey, M., O'Donoghue, C., Loughrey, J., and Meredith, D., Household Saving Behaviour in Ireland, *Economic and Social Review*.
8. O'Donoghue, C., V. Ahmed and J. Lennon. XLSIM: A Generic Tax-Benefit Microsimulation Model for Training. *International Journal of Microsimulation*.
9. Berger F., H. Immervoll and C. O'Donoghue Recovering gross amounts from net incomes in household surveys. An algorithm based on reverse simulation of tax burdens, *International Journal of Microsimulation*.

**Publications: Forthcoming***Journal Articles*

1. Ryan, Mary, Cathal O'Donoghue, Henry Phillips. Modelling financially optimal afforestation and management scenarios. *Open Journal of Forestry*.
2. Schulte, Rogier Patrick Olaf, Lilian O'Sullivan, Reamonn Fealy, Daire O'HUallachain, Cait Coyle, Philip Jordan, Cathal O'Donoghue and Rachel Creamer. Land as a limited resource: managing the supply of soil functions to meet demands from farm level to continental scale. *Frontiers, Environmental Science Research Topics*

*Book Chapters*

- 1.

*National Reports***Journal Publications: Published and In Press**

2015

1. Loughrey, J., F. Thorne, C. O'Donoghue. Market Risk Management and the Demand for Forward Contracts Among Irish Dairy Farmers, *International Journal of Agricultural Management*
- 2.
3. O'Donoghue Cathal and Thia Hennessy, Policy and Economic Change in the Agri-Food Sector in Ireland. *Economic and Social Review*.
4. Upton, V., Ryan, M., & O'Donoghue, C. Combining conventional and volunteered geographic information to identify and explore recreational resources. *Applied Geography*, 60: 69-76.
5. Farrell, Niall, Cathal O'Donoghue, Karyn Morrissey, Quantifying the uncertainty of wave energy conversion device cost for policy appraisal: an Irish case study, *Energy Policy, Volume 78, Pages 62–77*
6. Howley, P., Buckley, C., Donoghue, C. O., & Ryan, M. (2015). Explaining the economic 'irrationality' of farmers' land use behaviour: The role of productivist attitudes and non-pecuniary benefits. *Ecological Economics*, 109, 186-193.

2014

7. O'Donoghue Cathal, Jason Loughrey, Now-Casting in Microsimulation Models: A Methodological Survey. *Journal of Artificial Societies and Social Simulation*, vol. 17, issue 4, pages 12.
8. Cathal O'Donoghue, Cathal Geoghegan, Kevin Heanue and David Meredith. The Economic Structure of Towns in Ireland. *Journal of the Statistical and Social Inquiry Society of Ireland*, Vol.43, 2013-14, pp114-135.
9. Mary Ryan, Michele McCormack, Cathal O'Donoghue, Vincent Upton. A comparison of the cattle and forestry subsidy payments available from 1984 to 2012 for a typical cattle farm in Ireland. *Irish Forestry*. pp 92-112
10. A.C. Miller, A. Matthews, T. Donnellan, C. O'Donoghue (2014) The employment effects of Food Harvest 2020 in Ireland. *Irish Journal of Agricultural and Food Research* Volume 53, No. 2, pp 149–169.

11. Morrissey, K., O'Donoghue, C., & Farrell, N. (2014). The local impact of the marine sector in Ireland: a spatial microsimulation analysis. *Spatial Economic Analysis*, 9(1), 31-50.
12. Flannery, D. and C. O'Donoghue, Utilising Microsimulation to Estimate New Marginal Returns to Education: Ireland 1987-2005, *Manchester School*.
13. Gaëtan de Menten, Gijs Dekkers, Geert Bryon, Philippe Liégeois, Cathal O'Donoghue, LIAM2: a new open source development tool for discrete-time dynamic microsimulation models. *Journal of Artificial Societies and Social Simulation*
14. Morrissey K, Clarke G, Williamson P, Daly A, O'Donoghue C, 2014, "Mental illness in Ireland: simulating its geographical prevalence and the role of access to services" *Environment and Planning B: Planning and Design* advance online publication, doi:10.1068/b130054p
15. Kevin Kilcline, Cathal O'Donoghue, Thia Hennessy, Stephen Hynes. Economic factors affecting concentrate usage on Irish sheep farms. *International Journal of Agricultural Management*. Volume 3, Issue 4, pp 243-252.
16. Chyzheuskaya Aksana, Cathal O'Donoghue and Stephen O'Neill. (2014) Using a Farm Micro-simulation Model to Evaluate the Impact of the Nitrogen Reduction Mitigation Measures on the Farm Income in Ireland. *International Journal of Agricultural Management*. Volume 3, Issue 4, pp 232-242.
17. O'Donoghue, C., K. Morrissey, J. Lennon, (2014). Spatial Microsimulation Modelling: a Review of Applications and Methodological Choices, *International Journal of Microsimulation*. 7(1) 26-75.
18. O'Donoghue, C. Estimating the effects of land-use and catchment characteristics on lake water quality: Irish lakes 2004-2009 - A Comment. *Journal of the Statistical and Social Inquiry Society*.
19. Sologon, D.M. and C. O'Donoghue, (2014) Shaping earnings instability: labour market policy and institutional factors, *Review of Income and Wealth*, Vol. 60, pp. S205-S232.
20. Amaya Vega, Ana Corina Miller, Cathal O'Donoghue. (2014) Economic Impacts of Seafood Production Growth Targets in Ireland. *Marine Policy* Vol. 47 C, pp 39-45
21. Murphy, Geraldine, Stephen Hynes, Cathal O'Donoghue, Eithne Murphy. (2014). An investigation into the type of farmer who chose to participate in Rural Environment Protection Scheme (REPS) and the role of institutional change in influencing scheme effectiveness. *Land Use Policy*.
22. Burlacu, I. and O'Donoghue, C. (2014), "The impact of differential social security systems and taxation on the welfare of frontier workers in the EU", *Journal on Free Movement of Workers* (7), Social Europe, European Commission.
23. Yosr Abid and Cathal O'Donoghue. (2014) Irish Citizens' Attitudes to Pension Reform and Redistribution. *Social Policy and Society* Vol 14, No 2.
24. Li, J. & O'Donoghue, C. (2014). Evaluating alignment methods in dynamic microsimulation models, *Journal of Artificial Societies and Social Simulation*, Vol.17, No 1.
25. Howley, P., S. Hynes, L. Yadav, S. O'Neill, C O'Donoghue. Perspectives towards the 'multifunctional' roles of the agricultural sector: A comparison of

- the views of farmers with the general public. *Land Use Policy*. [Volume 38](#), May, Pages 248–256.
26. Upton, Vincent, Cathal O'Donoghue, and Mary Ryan. "The physical, economic and policy drivers of land conversion to forestry in Ireland." *Journal of Environmental Management* 132 (2014): 79-86.
- 2013
27. O'Donoghue, Cathal , Jason Loughrey, Karyn Morrissey (2013). Using the EU-SILC to Model the Impact of the Economic Crisis on Inequality. *IZA Journal of European Labor Studies*
28. Li, J. & O'Donoghue, C. (2013). A survey of dynamic microsimulation models: uses, model structure and methodology. *International Journal of Microsimulation*, 6, 3-55.
29. Rogier Schulte; Rachel Creamer; Trevor Donnellan; Niall Farrelly; Reamonn Fealy; Cathal ODonoghue, Daire Ó hUallacháin. Functional Soil Management. *Environmental Science and Policy*.
30. Burlacu, I. and C. O'Donoghue, The Impact of Unemployment on the Welfare of Mobile Workers in the European Union. The case of Frontier Workers in Luxembourg and Belgium. *Regions and Cohesion*. Volume 3, Number 2, pp. 69-90(22)
31. O'Donoghue, C. Estimating the effects of land-use and catchment characteristics on lake water quality: Irish lakes 2004-2009 - A Comment. *Journal of the Statistical and Social Inquiry Society*.
32. Green Stuart and Cathal O'Donoghue (2013), Assessing the Geographic Representativity of Farm Accountancy Data. *International Journal of Geo-Information*. Vol 2 (1):50-66.
33. Flannery, D. and C. O'Donoghue, THE DEMAND FOR HIGHER EDUCATION: A STATIC STRUCTURAL APPROACH ACCOUNTING FOR INDIVIDUAL HETEROGENEITY AND NESTING PATTERNS" *Economics of Education Review*. Volume 34, Pages 243–257.
34. Vincent Upton, Mary Ryan, Niall Farrelly, and Cathal O'Donoghue (2013), The Potential Economic Returns of Converting Agricultural Land to Forestry: An Analysis of System and Soil Effects from 1995 to 2009. *Irish Forestry*.
35. Morrissey, K., O'Donoghue, C. 2013. The Role of the Marine Sector in the Irish National Economy: An Input-Output Analysis, *Marine Policy*, vol 37, 230-238,
36. Morrissey, K., O'Donoghue, C., The Potential for an Irish Maritime Transportation Cluster: An Input-Output Analysis. *Journal of Ocean and Coastal Management*, Vol. 71, pp 305-313
37. Morrissey, K., O'Donoghue, C., Clarke, G and Jinjing Li, 2013. Using Simulated Data to Examine Determinants of acute hospital demand at the small area level, *Geographical Analysis*
- 2012
38. Howley, P., C. O'Donoghue and S. Hynes, (2012) Exploring preferences for traditional farming landscapes. *Landscape and Urban Planning*. Volume 104, Issue 1, Pages 66–74
39. Morrissey, K., A. Daly, G. Clarke, C. O'Donoghue, D. Ballas, A Rural/ Urban Comparison of Psychiatric Inpatient Admissions in Ireland, *Journal of Public Mental Health*, Vol 11, Iss. 4., pp 209-213.

40. Howley, P., J. Breen, C. O'Donoghue, and T. Hennessy, Does the single farm payment affect farmers' behaviour? A macro and micro analysis., *International Journal of Agricultural Management*, Vol 2., Issue 1, 57-64.
  41. Morrissey, K., O'Donoghue, C., 2012. The Irish marine economy and regional development. *Marine Policy*, 36, 358–364.
  42. Loughrey, J. and O'Donoghue, C. (2012) The Welfare Impact of Price Changes on Household Welfare and Inequality 1999-2009, *Economic and Social Review*. Vol. 43, No. 1, Spring, pp. 31–66
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64. Atkinson A.B., F Bourguignon, C O'Donoghue, H Sutherland and F Utili, 2000, "Microsimulation and the Formulation of Policy: A Case Study of Targeting in the European Union", in Atkinson A.B., H. Glennerster and N. Stern (eds.), *Putting Economics to Work, Volume in Honour of Michio Morishima*, London: LSE/STICERD Occ. Paper 22.

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65. Bourguignon, F., C. O'Donoghue, J. Sastre-Descals, A. Spadaro and F. Utili, 1998. EUROMOD: un modello di microsimulazione su scala europea, in N. Rossi (ed.) *il lavoro e la sovranita sociale 1996-1997*. Bologna: il Mulino.

1996

66. Callan T., C. O'Donoghue and C. O'Neill, 1996, *Simulating Welfare and Income Tax Changes: The ESRI Tax-Benefit Model*. Dublin: The Economic and Social Research Institute.

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67. Callan T., C. O'Donoghue and C. O'Neill, 1994. 'Evaluating Basic Income Options', in Reynolds B. and S. Healy (Eds.) *Towards an Adequate Income for All*. Dublin: Conference of Religious of Ireland.

### **National Policy Reports: Published and In Press**

2014

1. Kevin Heanue and Cathal O'Donoghue (2014). *The Economic Returns to Formal Agricultural Education*. Teagasc: Oak Park Carlow.
2. Toulet, Laura, Joris Gaudaré and Cathal O'Donoghue *The Burren Lowlands Economic Development Survey*. Report prepared for the Burren Lowlands Development Group. Teagasc: The Irish Agriculture and Development Authority.
3. Cathal O'Donoghue, Rachel Creamer, Paul Crosson, Tom Curran, Michael Diskin, Trevor Donnellan, Niall Farrelly, Réamonn Fealy, Padraig French, Cathal Geoghegan, Stuart Green, Kevin Hanrahan, Maeve Henchion, Anne Kinsella, Axel Magnan, David Meredith, Pat Murphy, Nuala Ní Fhlatharta, Michael O'Donovan, Daire O'Huallachain, Fintan Phelan, Karl Richards, Mary Ryan, Rogier Schulte, Lilian O'Sullivan, John Spink, Fiona Thorne. (2014). *Drivers and Scenarios of Land Use Change in Ireland*. Teagasc: Oak Park Carlow.
4. Cathal O'Donoghue, Declan Troy, Stuart Green, Mary Ryan. (2014) *Potential Agri-Food Investments under Juncker's European Investment Proposed Programme*. Teagasc: Oak Park Carlow.
5. Cathal O'Donoghue, Tom Curran, Kevin Hanrahan, Catherine Keena, Pearce Kelly, Paul Maher, James McDonnell, Pat Murphy, Ben Roche, Dan Clavin, Kevin Connolly, Reamonn Fealy, John Finn, Mark Gibson, Kevin Heanue, Maeve Henchion, Tim Hyde, David Meredith, Brian Moran, Aidan Murray, Fintan Phelan Mary Ryan. (2014) *Teagasc Report on Costings Prepared by the Department of Agriculture, Food and the Marine for Schemes within the CAP Rural Development Programme*. Teagasc: Oak Park Carlow.
6. Cathal O'Donoghue, Donagh Berry, Andy Boland, Gerry Boyle, Ciaran Carroll, Dan Clavin, Wendy Conlon, Kevin Connolly, Paul Crosson, Tom Curran, Reamonn Fealy, John Finn, Mark Gibson, Kevin Heanue, Maeve Henchion, Brendan Heneghan, Tim Hyde, Catherine Keena, Ivan Kelly, Tom



- Kelly, Aine Macken Walsh, Paul Maher, Declan McArdle, Dermot McCarthy, James McDonnell, David Meredith, Nuala NiFhlatharta, Daire OHuallachain, Tom ODwyer, Jim O'Mahony, Frank O'Mara, Edward O'Riordan, Fintan Phelan, Ben Roche, Mary Ryan, Tom Ryan, Rogier Schulte, Fiona Thorne (2014) Teagasc Submission on the Rural Development Programme for Ireland (RDP) 2014 – 2020, Public Consultation, 2014. Teagasc: Oak Park Carlow
7. Cathal O'Donoghue, Roger Schulte, Kevin Hanrahan with Tom Burke, Marie Christie, Mark Fenelon, Pat Murphy, Lance O'Brien, Larry O'Loughlin, Robert Sherriff (2014). Submission to the Review of Ireland's Foreign Policy and External Relations. Teagasc: Oak Park Carlow
  8. Pat Spillane Deirdre Kelly, Cathal O'Donoghue, David Meredith, Finola Moylette (eds) (2014) Energising Ireland's Rural Economy: Report of Commission on the Economic Development of Rural Ireland. Athenry: Commission on the Economic Development of Rural Ireland
  9. Cathal O'Donoghue, David Meredith, Deirdre Frost, Kevin Heanue (eds) (2014) Research Report of Commission on the Economic Development of Rural Ireland. Athenry: Commission on the Economic Development of Rural Ireland
- 2013
10. Cathal O'Donoghue, Ben Breen, Dan Clavin, Kevin Connolly, Trevor Donnellan, Reamonn Fealy, John Finn, Kevin Hanrahan, Thia Hennessy, Tim Hyde, Mark Gibson, Kevin Heanue, Maeve Henchion, Catherine Keena, Tom Kelly, Aine Macken Walsh, Paul Maher, James Mc Donnell, Frances McHugh, Nuala Ni Fhlathertha, Fintan Phelan, Ben Roche, Mary Ryan, Rogier Schulte (2013), Tom Ryan, Teagasc Submission on the Rural Development Programme for Ireland (RDP) 2014 – 2020. Teagasc: Oak Park Carlow
  11. Kauppila, D., Kinsella, A., Loughrey, J., O'Donoghue, C., McDonnell, J. and Thorne, F. (2013) Identifying and Managing Risks. *National Dairy Conference Proceedings*
- 2012
12. Rogier Schulte, Paul Crosson, Trevor Donnellan, Niall Farrelly, John Finnan, Stan Lalor, Gary Lanigan, Donal O'Brien, Laurence Shalloo, Fiona Thorne with Andy Boland, Barry Caslin, Reamonn Fealy, Mary Foley, Mark Gibson, James Humphreys, Kevin Hanrahan, Tim Hyde, Phil Kelly, Paul Maher, Pat Murphy, Nuala NiFhlatharta, Cathal O'Donoghue, Padraig O'Kiely, Karl Richards, John Spink and Frank O'Mara. (2012). *A Marginal Abatement Cost Curve for Irish Agriculture*, Submission to the National Climate Policy Development Consultation.
- 2011
13. Morrissey, K., M Cuddy, S. Hynes, and C. O'Donoghue (2011) *Ireland's Ocean Economy 2007*. NUI Galway Socio-Economic Marine Research Unit.
- 2010
14. Schulte, R.P.O., Gibson, M.T., Lalor, S.T.J. and Hacket, R. with O'Donoghue, C. et al., 2010. Independent review of the science, implementation and administration of the Draft European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2010. Carlow: Teagasc, Agriculture and Food Development Authority.

15. O'Donoghue, C., (2010). "The Macro-Economic Situation and Farm Incomes" in L. Connolly (ed.) *Agricultural Outlook 2010*. Teagasc: Rural Economy Research Centre.

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16. Baroni, E. & O'Donoghue, C. (2009). Poverty impact of state welfare pension reform on the elderly: An analysis of the reform proposals in the 2007 Irish Green Paper (Research Report No. 09/09). Retrieved from Combat Poverty Agency website: <http://www.combatpoverty.ie/publications/workingpapers.htm>
17. Immervoll H. and C. O'Donoghue, 2009. "Towards a Multi-Purpose Framework for Tax-Benefit Microsimulation". *International Journal of Microsimulation, Autumn, Vol 2., No. 2*.

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18. Macken-Walsh, A., O'Donoghue, C., 2008. Policy Developments and Drivers in the Rural Economy. *Teagasc Foresight 2030*, Volume II.

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19. Breen J., T. Donnellan, K. Hanrahan, T. Hennessy, C. O'Donoghue, 2007. Trends in the Irish Agriculture and Rural Economy. Teagasc: Rural Economy Research Series.

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20. O'Donoghue C., Thomas, S., H. Goldstein and T. Knight, 1996, *1996 DfEE study of Value Added for 16-18 Year olds in England*, Dept. for Education and Employment Research Studies, No. 83.

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21. Callan T., C. O'Neill and C. O'Donoghue, 1995. *Supplementing Family Income*, Dublin : ESRI Policy Research Series Paper No. 23.

1994

22. Callan T., C. O'Donoghue and C. O'Neill, 1994. *Analysis of Basic Income Schemes for Ireland*, Dublin: ESRI Policy Research Series Paper No. 21.

### **Refereed Research Monographs**

O'Donoghue, Cathal, (2014) *Handbook of Microsimulation*. Emerald Insight.

Cathal O'Donoghue, Ricky Conneely, Deirdre Frost, Kevin Heanue, Brian Leonard, David Meredith (2014) *Rural Economic Development in Ireland*. Carlow: Teagasc

Gijs Dekkers, Marcia Keegan and Cathal O'Donoghue, (Eds) 2014. *New Pathways in Microsimulation*. Cheltenham: Ashgate.

Cathal O'Donoghue, Stephen Hynes, Karyn Morrissey, Dimitris Ballas, and Graham Clarke (Eds.), 2013, *Spatial Microsimulation for Rural Policy Analysis*. Springer-Verlag - *Advances in Spatial Science*.

Cathal O'Donoghue (ed.) , *Life-Cycle Income Analysis Modelling* – 2010 Lambert Academic Publishing AG & CO.KG

Cathal O'Donoghue, *Practical Microsimulation Modelling* – work in progress.

Anne Kinsella, Cathal O'Donoghue, and Fiona Thorne Current Economic Issues in Irish Agriculture, forthcoming. *Oak Tree Press*.

### **Working Papers**

1. Morrissey, K., Daly, A., Clarke, G., Ballas, D. & O'Donoghue, C., (2009). An Examination of Psychiatric Inpatient Admissions in Rural Ireland. Teagasc Rural Economy Research Centre Working Paper Series Paper 09-WP-RE-10.
2. Sologon D.M. and C. O'Donoghue, 2009. Equalizing or Desequalizing Lifetime Earnings Differentials? Earnings Mobility in the EU: 1994-2001" IZA Discussion Paper No. 4642.
3. Sologon D.M. and C. O'Donoghue, 2009. Increased Opportunity to Move Up the Economic Ladder? Earnings Mobility in EU: 1994-2001, IZA Discussion Paper No. 4311.
4. Sologon D.M. and C. O'Donoghue, 2009 . Policy, Institutional Factors and Earnings Mobility. IZA Discussion Paper No. 4151.
5. Abid Fourati, Y., and C. O'Donoghue, 2009. Eliciting Individual Preferences for Pension Reform, CESIFO Discussion Paper No. 2770.
6. O'Donoghue C., D. Meredith and E. O'Shea, 2009. Postponing Maternity in Ireland IZA Discussion Paper No. 4192.
7. Flannery D. and C. O'Donoghue, 2009. Participation in Higher Education: A Random Parameter Logit Approach with Policy Simulations IZA Discussion Paper No. 4163.
8. Sologon D.M. and C. O'Donoghue, 2009. Earnings Dynamics and Inequality among Men across 14 EU Countries, 1994-2001: Evidence from ECHP. IZA Discussion Paper No. 4012.
9. Cullinan, J., Hynes, S. and O'Donoghue, C., (2008). Aggregating Consumer Surplus Values in Travel Cost Modelling Using Spatial Microsimulation and GIS Techniques. Teagasc Rural Economy Research Centre, Working Paper Series: 08-WP-RE-07.
10. Cullinan, J., Hynes, S. and O'Donoghue, C., (2007). Estimating Catchment Area Population Indicators for Outdoor Recreation Sites in Ireland. Teagasc Rural Economy Research Centre, Working Paper Series: 08-WP-RE-07.
11. Colombino, U., M. Locatelli, E. Narazani, C. O'Donoghue, I. Shima. 2008 "Behavioural and Welfare Effects of Basic Income Policies: A Simulation for

- European Countries”, CHILD - Centre for Household, Income, Labour and Demographic Economics Working Papers, wp03\_08.
12. Ahmed, V. and C. O'Donoghue, 2007. “CGE-Microsimulation Modelling: A Survey”, MPRA Discussion Paper No. 9307.
  13. Immervoll H., C. O'Donoghue and H. Sutherland, 1999. "An Introduction to EUROMOD". EUROMOD Working Paper no. 0/99.
  14. Callan T., C. O'Donoghue, H. Sutherland and M. Wilson, 1999, "Comparative Analysis of Basic Income Proposals: UK and Ireland", University of Cambridge: Microsimulation Unit Research Note No. 31.
  15. Bourguignon, F., C. O'Donoghue, J. Sastre-Descals, A. Spadaro and F. Utili, 1998, Eur3, a Prototype European Tax-Benefit Model: A Technical Description, Microsimulation Unit Research Note No. R25.
  16. O'Donoghue, C., 1998. A Technical Description of the Irish module of Eur6, Microsimulation Unit Research Note, R26.
  17. O'Donoghue C., 1997, “Carbon Dioxide, Energy Taxes and Household Income’, ESRI Working Paper, No. 90.
  18. O'Donoghue, C., 1997. Social Protection: Social Assistance Benefits. In Sutherland H. (ed.) Final Report to the European Commission on EUROMOD project I.
  19. Chadwick, M., C. O'Donoghue, G. Redmond and H. Sutherland, 1996. ‘Neither Santa Claus nor Scrooge? The Impact of the November 1996 Budget on the Distribution of household Incomes’, Microsimulation Unit Research Note MU/RN/9623, DAE, University of Cambridge.
  20. Halpin, B. and O'Donoghue, C. (2004). Cohabitation in Ireland: Evidence from survey data. University of Limerick Department of Sociology Working Paper Series, WP2004-01.
  21. O'Donoghue, C., M., Baldini, and D. Mantovani, 2004, “Modelling the Redistributive Impact of Indirect Taxes in Europe: An Application of EUROMOD” EUROMOD Working Paper no. 7/01.
  22. O'Donoghue C., 1996. “Carbon Dioxide, Energy Taxation and Industry: An Input-Output Analysis for Ireland”, ESRI Working Paper, No. 87.

### **Other Unpublished Work**

1. Chyzheuskaya, A., C O'Donoghue, C. Buckley, S. O'Neill, M. Ryan, S. Green, M. Gibson, estimate the Marginal Abatement Cost for the Mitigation of Nitrogen from Agricultural Land,
2. Reamonn Fealy, Cathal O'Donoghue, Kevin Hanrahan, Michael Martin, Rogier Schulte. Modelling the Gross Cost of Transporting Pig Slurry to Tillage Spread Lands in a Post Transition Arrangement within the Nitrates Directive, *Journal of International Manure Management*
3. Sologon, D. and C. O'Donoghue, Earnings Dynamics and Inequality in the EU, 1994-2001, *Journal of Economic Analysis & Policy*
4. Burlacu, I., C. O'Donoghue, Differential Welfare State Impacts for Mobile Workers Working Age Families. *Journal of European Social Policy*
5. Jinjing Li, and C. O'Donoghue. Retirement Choice Simulation in Household Settings with Complex Employment and Pension Trajectories,
6. Sologon, S.M. and C. O'Donoghue, Shaping Persistent Earnings Inequality Differentials: Labour Market Policy and Institutional Factors. *IZA Journal of European Labour Studies*

7. Vollenweider, X., S. DiFalco and C. O'Donoghue Risk Preferences and Agri-Environmental Schemes: Does Risk Aversion Explain the Uptake of the Rural Environment Protection Scheme?
8. Hynes, S. and O'Donoghue, C. Inequality of Irish Farm Income 1994-2008,.
9. Cathal O'Donoghue, Peter Howley, Reamonn Fealy, Stephen Hynes, with Aksana Chyzheuskaya, Stuart Green, David Meredith, Karyn Morrissey, "The Spatial Relationship between Economic Activity and River Water Quality"..
10. Abid Fourati, Y., and C. O'Donoghue, Eliciting Individual Preferences for Pension Reform
11. Eoin Grealis, Rowan Fealy, Reamonn Fealy and Cathal O'Donoghue. Irish Climate Change Policy and the Role of Network Governance.
12. Murphy, G., Hynes, S., Murphy, and O'Donoghue, C., Assessing the Compatibility of Farmland Biodiversity and Habitats to the Specification of Agri-Environmental Schemes using a Multinomial Logit Approach
13. Morrissey, K., Clarke, G., Hynes, S., and O'Donoghue, C., "An Examination of Psychiatric Inpatient Admissions Rural Ireland"
14. Lüksik, S and C. O'Donoghue, 2005. "ESTEEM – the Estonian Environmental-Economy Microsimulation Model", paper presented to Latvian Statistical Society, Riga, Latvia, April.
15. Baroni E. and C. O'Donoghue, 2004, "Income Inequality, Fiscal policy and Institutional Development: On The redistributive effects of Income Tax Progressivity and Corruption", presented to Economic Growth and Distribution: On the Nature and Causes of the Wealth of Nations, Lucca, Italy June 16 – 18.
16. O'Donoghue C., 2002. "Marriage in Europe: Who Marries Whom?", paper presented to the European Society of Population Economists, Bilbao, June.
17. O'Donoghue C., 1994, 'Convergence and Structural Change in the European Periphery', Economics Department Seminar, University College Dublin, April.

### **Work in Progress**

23. Jinjing Li and Cathal O'Donoghue. Income Smoothing for Retirees in Ireland: A Study of Actual and Simulated Income Change. *Economic and Social Review*.
24. O'Donoghue C., The Economic Crisis and Farm Household Incomes.
25. O'Donoghue C., S. Hynes and D. Sologon, Farm Income Mobility and Inequality in Ireland 1994-2008.
26. O'Donoghue C., The Distributional Impact of CAP Reform.
27. Stithou, M., N. Hanley, S. Hynes and C. O'Donoghue, Economic Benefit of the Water Framework Directive
28. Fealy, R., S. Green and C. O'Donoghue. Modelling the Optimal Location of Dairy Plants
29. Clancy, D., S. Green, R. Fealy, Cathal O'Donoghue, Fiona Thorne Weather and the Productivity of Agriculture
30. Clancy, D., S. Green, R. Fealy, G., Lo Papa, Cathal O'Donoghue, Fiona Thorne. Soil Quality and the Productivity of Agriculture
31. Clancy, D., R. Fealy. S. Green, C. O'Donoghue and F. Thorne, The local environment, agricultural productivity and reforms to the Less Favoured Areas payment.
32. Vega, A., K Morrissey and C. O'Donoghue Travel to work times and the spatial distribution of welfare

33. Farrell, N., K. Morrissey and C. O'Donoghue. Evaluating the computational speed and efficiency of a new spatial microsimulation method.
34. Decoster A., J. Loughrey, C. O'Donoghue, D. Verwerft. The Robustness of using Statistical Matching Methods in Income and Expenditure Inequality Analysis.
35. Breen, J., D. Clancy, A.C. Miller, C. O'Donoghue. Biomass and the Economics of Displacement.
36. Heanue, K., A. Kinsella, C. O'Donoghue and F. Thorne, The Economic Benefits of Working Together – the Case of Partnerships in Agriculture
37. Omoruyi, O., V. Ahmed and C. O'Donoghue, Economic Impact of AIDS in Nigeria
38. Jinjing, L and C. O'Donoghue. Modelling the Retirement Decision.
39. Jinjing, L and C. O'Donoghue. Intergenerational Distribution in Pensions Systems.
40. Flannery, D. and C. O'Donoghue. "Redistributive Impact of Higher Education in Ireland"
41. Hynes S., C. O'Donoghue, F. Thorne, Impact of WTO Sugar Reform
42. Lennon, J. and C. O'Donoghue. Modelling Household Formation
43. Lennon, J. and C. O'Donoghue. Small Area Population Projections

## **7. TEACHING AND ACADEMIC DUTIES**

### **University Administrative Duties**

- Director Department of Economics PhD Program 2002-2005
- Commerce Faculty Research Committee 2002- 2005.
- Arts Faculty Student Services Committee 2002-2005.
- Arts Faculty Research Committee 2005.
- IDARI Project Management Committee, 2002-2006.
- Editor Working Paper Series, 2002-2003.
- Arts Faculty Student Adviser, 2001-2005.

### **Teaching Responsibilities**

- First Year Public and Social Policy 2002/3-2005
- Second Year Microeconomics 2002/3
- Third Year Public Economics 2001/2-2005
- Master's Level Econometrics 2001/2-2005
- Master's Level Microsimulation Modelling 2001/2-2005, 2013
- Master's Level Spatial Economics 2009-2012
- PhD Program Advanced Micro-Econometrics, 2003/4-2005
- PhD Program Topics in the Economics of Social Policy, 2003/4-2005
- Department of Economics, University of Turin, Graduate Program, Social Policy Modelling, 2004/5.
- European Doctoral Program (Social Protection), Policy Modelling, 2005-.
- UNICEF Training Program in Policy Evaluation 2007.

### **PhD Supervision**

I supervise a substantial number of PhD students, which I primarily do in a thematic or lab type way. Virtually all my students are financed through research monies I have raised; I recruit students in thematic areas working on similar data and methodologies on different topics. This allows for substantial interaction and student-student learning. I also rely on post-docs and co-supervisors to provide specific skills and support. Many students have spent time in Universities and Institutions overseas including Harvard (x2), Berkeley (x3), Leeds (x2), Stirling, Essex, LSE, NATSEM, Leuven. Students have been successful in finding related employment post PhD including, senior and post-doc researcher SEMRU (NUIG), Estonia Ministry of Environment, Senior Statistician UK Government, Teagasc RERC, Pakistan Planning Commission, Swedish Future Institute, Lectureships in the University of Limerick (x 3), Researchers in CEPS (Luxembourg x 2).

1. Stephen Hynes “Developing an Agri-Environmental Microsimulation Model for Ireland” 2003 –2007 (**Director, Socio-Economic Marine Research Unit, NUI Galway**)
2. Vaqar Ahmed “The impact of macro-economic changes on the income-distribution in Pakistan”, 2005-2008 (**Deputy Chief, Macroeconomics Section, Planning Commission of Pakistan**)
3. Elisa Baroni “Poverty Impact of the Irish Green Paper on Pensions”, 2005 – 2010 (**Research Economist, Swedish Ministry of Finance**)
4. John Cullinan “Modelling Agri-Tourism Hotspots using the Simulation Model of the Irish Local Economy” 2005-2008. (**Lecturer, National University of Ireland, Galway**)
5. Jason Loughrey “The Welfare Impact of Macro-Economic changes on Agriculture and other markets in Ireland 1987-2005”, 2005 – 2010 (**Post Doc Research, NUIG/LEADER/Teagasc Joint programme**)
6. Darragh Flannery “Economics of Education” 2006 - 2010 (**Lecturer, University of Limerick**)
7. Karyn Morrissey “Spatial Analysis of Health Care in Ireland”, 2006 -.2008 (**Lecturer, School of Environment Studies, University of Liverpool**)
8. Denisa Sologon “Earnings Mobility in Europe” 2006 - 2010 (**post doc CEPS-INSTEAD, Luxembourg, Assistant Professor, University of Maastricht**)
9. Yosr Abid Fourati “Demographic Ageing, Pension Reform and Political Economy” 2007 –2010 (**Consultant, Technical and Practical Assistance to Development Tunisia**)
10. Ronan Waters, Micro-economics of Beef (Completed MPhil 2009 – 2010)
11. Osunde Omoruyi “Modelling the impact of HIV/AIDS Risk Practices Among Women of Child Bearing Age in Rural Communities in Nigeria: an Assessment”, 2006 - 2012 (**Senior Lecturer, University of Benin, Nigeria**)
12. Li Jinjing “Pension Reform and Retirement Choice Modelling” 2008 – 2011 (**Research Officer, NATSEM, Canberra, Australia**)
13. John Lennon “Modelling Migration and Commuting Patterns: Using Spatial Interaction and Microsimulation Models”, 2004 - (**2011 – Research Technologist, Teagasc**)
14. Mavra Stithou, Economic Benefits of Improved Water Quality 2008- **2011 (Post Doc, Athens University of Business and Economics)**
15. Niall Farrell, Economics of Renewable Energy 2009-2013 (**Post Doc, Economic and Social Research Institute, Dublin**)
16. Corina Miller, Developing an Agri-Computable Generation Model for Ireland 2008-2013 (**Research Officer, AFBI, Belfast**)

17. Ger Murphy, Modelling Participation in the Rural Environmental Protection Scheme, 2008–2013 (**Research Officer, NUI Galway**)
18. Aksana Chyzheuskaya, Economics of the Water Framework Directive, 2009 –2013 (**Post Doc, NUIG**)
19. Irina Burlacu, Fiscal Incentives and Cross Border Working, (2009 –2014)
20. Eoin Grealis, Modelling Greenhouse Gas Emissions from Irish Agriculture, 2009 – 2014 (**Research Officer SEMRU**)
21. Xavier Vollenweider, Risk, Climate and Agriculture, 2009 – 2014 (**Post doc, University of Geneva**)
22. Patrick Gillespie, Economics of the Irish Dairy Sector, 2011 – 2015
23. Paul Smyth, Identifying and Measuring the Variability in Milk Production Costs in Ireland, 2013 (**Economist ICMSA**)
24. Kevin Kilcline, Economics of the Irish Sheep Sector, 2010 – (**Economist, IFA**)
25. Tareq Abuelhaj , Food Security Policy Impact Analysis, 2011 – (**Analyst, World Food Programme**)
26. Mary Ryan, Forestry Economics, 2011 - (**Environmental Economist, Teagasc**)
27. Dan Clavin, Organic Beef Systems Modelling 2012 – (**Organic Specialist, Teagasc**)
28. Andrés Mideros Mora, Labour Supply and Cash Transfers in Ecuador 2012 - 2015
29. Paul Kilgarriff, Modelling Spatial Welfare 2012 - .
30. Michele McCormack Beef Farmer Behaviour 2012 –
31. Andreas Tsakiridis Beef Cost Economics 2013 –
32. Mary Carey Spatial Economics of Agribusiness 2013 – (**Economist, Department of Finance**)
33. Judith Flory Economic Ageing 2012 –
34. Gintare Mazeikaite Health Impact of Economic Shocks (2013 –
35. Robert O'Shea, Economics of Agricultural Greenhouse Gas Emissions (2013 –
36. Cathal Geoghegan, Economics of Land Access, 2013 –
37. Anthony Cawley, Economics of Knowledge Transfer in Agriculture 2014 –
38. Brian Leonard, Economics of Farm Succession and Inheritance 2014 –
39. Ricky Conneely, Off-Farm Employment 2014 –
40. Amar Daxini, Nutrient Management Planning 2015-
41. Nicolas Echarti, Rate of Return to Health and Safety Interventions, 2015 - .
42. Owen McGurk, Options for Agr-Environmental Schemes 2014 -

#### Incomplete

1. Silja Lüpsik “The Impact of Fiscal Policy on Environmental Pollution in Rural Estonia”, 2003 – (**Incomplete, – Economist, Ministry of Environment, Estonia**)
2. Tamara Cassidy, Economics of the Irish Beef Sector, 2010 –2011 (**Incomplete**)
3. Tatjana Stirling “Policy Reform in Lithuania – A microsimulation approach”, 2004- (**Senior Statistical Officer, UK Civil Service**)
4. Philip Hayes “A Comparative Study of Housing Benefits in Europe and the Impact of Housing Benefit Policy Reform in Ireland” 2005 (**2011, Post Doc Social Policy Research Centre, Australia**)



**Post Docs**

1. Elisa Baroni (Combat Poverty Agency)
2. Karyn Morrissey (Beaufort Marine Economics Award)
3. Amaya Vega (Beaufort Marine Economics Award)
4. Jason Loughrey (EU-Framework, ILDN project and Eurostat)
5. Paul Kilgarriff (EPA)
6. Rosemarie Jordan (EPA)
7. Eoin Grealis (Beaufort Marine Economics Award)
8. Vincent Upton (Stimulus and COFORD)
9. Denisa Sologon (AFR)
10. Jinjing Li (Hungarian Government Project)
11. Edel Kelly (EU FP7)

**PhD Examiner**

1. Horacio Levy (Universitat Autònoma de Barcelona) – 2004.
2. Agnes Walker (Australia National University) – 2004.
3. Aoife Brick (NUI Galway) - 2005
4. Sarah Callanan (NUI Galway) - 2005
5. Lina Salanauskaite (University of Maastricht) – 2010.
6. Robert Tanton (University of Canberra) – 2011
7. Stefano Verde (Trinity College Dublin) – 2012
8. Wasiu Are (University College, Dublin) – 2012
9. Daniel Keep (University of Wollongong - New South Wales, Australia) - 2013

**8. REFEREEING AND REVIEWING****Refereeing**

- Journal of Population Ageing
- Bank of Italy
- Environment and Planning A
- Australian Journal of Labour Economics
- Applied Population and Policy,
- Bulletin of Economic Research,
- Economic and Social Review,
- Review of Income and Wealth,
- International Tax and Public Finance,
- Brazilian Electronic Journal of Economics,
- Economic and Business Review,
- Journal of Computational Economics,
- NUIG Working Papers,
- University of Cambridge Working Papers,
- EUROMOD Discussion Papers,
- Combat Poverty Agency, Research Projects.
- Modelling and Policy Impact Analysis, Research Projects
- Journal of Artificial Societies and Social Simulation
- International Journal of Microsimulation
- ESRC Research Proposals and Project Report Evaluation

- Government of Luxembourg Research Proposals
- European Review of Agricultural Economics
- Journal of Agricultural Science
- Journal of Economic Inequality

### **Editorial**

- Deputy Editor International Journal of Microsimulation, 2005-2011
- Member Editorial Advisory Board, Journal of Trade and Development Policy, 2010-2013

## **9. LECTURE NOTES**

As part of my University teaching I have developed full sets of course notes, prepared from research material, slides and archives of exam papers that I distribute to students during the courses. Each are substantial undertakings of about 150-200 pages each.

### **2nd Year Micro-Economics**

- Micro-Economics - Introduction 3
- Budget Constraint 7
- Preferences 13
- Utility 23
- Choice 34
- Demand 45
- Income and Substitution Effects 55
- Technology 61
- Profit Maximisation 68
- Cost Minimisation 75
- Intertemporal Choice 91
- Game Theory 103
- Market Structure 109
- Past Exam Papers 112

### **3<sup>rd</sup> Year Public Economics**

- What is Public Economics about? 5
- Redistributive Forces of the Irish Tax-Benefit System 10
- Tools of Public Finance (Positive and Normative Analysis) 43
- The Efficiency Rationale for Public Interventions 55
- Economics of Insurance: Asymmetric Information 71
- Social Decision Making: Social Choice 82
- Revision: Income and Substitution Effects 92
- Making Work Pay: Labour Supply Decisions 99
- Taxation and Efficiency 117
- Equity and Efficiency: Optimal Taxation 127
- The Public Gets What the Public Wants: Public Choice 137
- Taxation and Inter-Temporal Choice 145

- Environmental Economics and Fiscal Policy 156
- Past Exam Papers 178

### **MSc Micro-Econometrics**

- What is Micro-Econometrics about? 3
- Getting Started in Stata 7
- Simple Linear Regression 14
- Multiple Linear Regression 42
- Failures in the Classical Assumptions 57
- Instrumental Variable Estimation 78
- Maximum Likelihood Estimation 86
- Binary Discrete Choice Models 91
- Multiple Discrete Choice Models 106
- Limited Dependent Variables 116
- Panel Data Models 124
- Past Exam Papers 136
- Handouts from Berndt “The Practice of Econometrics” 154

### **MSc/PhD Social Policy Modelling**

- See Monograph Practical Microsimulation Modelling above.

### **MSc Spatial Economics**

- Spatial Economics an Introduction
- Labour Mobility and Regional Development
- Geographical Information Systems (Reamonn Fealy)
- Local Labour Markets (David Meredith)
- Urban Systems
- Economic Development and the Spread of Industry
- Industrial Clusters
- Hedonic Pricing, Distance and Valuation
- The Value of Time and Distance (Peter Howley)
- Spatial Microsimulation Modelling
- Agriculture and Food
- Area-based Social Exclusion and Targeting
- Access to Services (Karyn Morrissey)
- Economics of Transport Planning
- Travel to Work and Commuting (Amaya Vega)
- Infrastructure and Network Economics
- Spatial Econometrics
- Land Use and Land Markets
- Earth Observation and Remote Sensing (Stuart Green)
- Financing Local Services
- Rural Development Policy
- Preparing Development Plans (Michael Cuddy)

## 10. DEVELOPMENT ACTIVITIES

### Representative Activities

- Member of the Fund Council of the CGIAR Consortium 2013-. The CGIAR Fund supports international agricultural research programs aimed at reducing poverty and hunger, improving human health and nutrition, and enhancing sustainable management of natural resources in the developing world. The CGIAR Fund is administered by the World Bank, as Trustee, and governed by the Fund Council, a representative body of fund donors and other stakeholders. As of September 2012, funding of US\$1,910 million was approved by the council.
- Representative European Initiative for Agricultural Research for Development 2013 -. The European Initiative on International Agricultural Research for Development (EIARD) is a permanent Agricultural Research for Development (ARD) policy coordination platform, recognised in 1997 by a Communication of the Commission to the Council and the European Parliament. EIARD's aim is to promote and implement coherent European policies at international, regional and sub-regional levels in order to increase the impact of ARD on poverty reduction, food security and sustainable management of natural resources in developing countries.

### Conference Organisation and Participation

- Host, 19<sup>th</sup> European Coordination Group Meeting, European Initiative on International Agricultural Research for Development, RDS June 2014
- Workshop Organiser, Food Security Research Workshop, RDS June 2014
- Workshop Organiser, How can Public Agri-Food Institutions Impact the National Strategy for Food Security in Developing Countries?, RDS December 2012
- Member Organising Committee, Conference - Outcome indicators for the CGIAR system Dublin April 2013
- Invited Participant, Global Forum of Leaders in Agricultural Science and Technology, Beijing, July 2013

### Research and Consultancy Projects

- Poverty Reduction Strategy, co-author, Moldova
- Child Protection Reform in Ukraine
- Policy Reform to Reduce Environmental Pollution in Sri-Lanka.
- Pensions Policy Reform, Chile
- Tax-Benefit Modelling, Brazil

### PhD Supervision

- Poverty Impact of Macro-economic change, Pakistan
- Distributional Impact of HIV/AIDS, Nigeria
- Food Security Policy, Iraq
- Understanding Spatial Economics of Land Tenure Change in Kenya
- Economics of Climate Risk, Ethiopia

## 11. RURAL DEVELOPMENT

- Head and Scientific lead of Teagasc's Rural Economy and Development Programme - Responsible for the delivery of Rural Development services across area units nationwide within the organisation.
- CEO of the Irish Government's Commission for the Economic Development of Rural Areas 2012-2014
- Secretary, Burren Lowlands Development Company. Awardee of Rural Economic Development Zone. Nominated Galway County Council Cathaoirleach Awards 2015.
- Member Advisory Group, Galway County Council, Local Economic and Community Plan
- Member Inter-Departmental Group tasked with the implementation of the recommendations of the Commission for the Economic Development of Rural Areas
- Member of the Fund Council of CGIAR, a \$1 billion a year International Agri-Food Research organisation with Rural Development within its remit.
- Chairman, Agri-Food Business and Rural Development Programme, Teagasc-UCD Agricultural Alliance.
- Member of Organising Committee Teagasc 2030 Foresight and co-author of report
- Lead author, Teagasc submission to National Agri-Food Strategy 2015 and of Land Use Strategy 2014
- Co-PI and member of management committee of the EU FP5 framework project Integrated Development of Agriculture and Rural Institutions
- Secretary of the Burren Lowlands Development Company 2014-
- Advisor to County Galway Local Economic and Community Plan 2015 –
- Member, Rural Economy Evaluation Committee, Clare Rural Development Company, 2011 - 2013
- Member Irish Rural Development Programme Monitoring Committee 2010 -
- Member Stakeholder Committee, DERREG - Developing Europe's Rural Regions in the Era of Globalization - EU Framework Project 2010 - 2011
- Member Galway 2040 Vision Committee (Agriculture, Food and Rural Development) 2010
- Member Steering Committee, RurAgri EU Framework Project 2010-2011
- Advisory Board, Rural Research Group, Department of Community, Rural and Gaeltacht Affairs, 2007 - 2010
- Member, Advisory Board, to the project 'Establishing a rural evidence base to inform rural policy' in Northern Ireland (QUB and DARDNI), 2009 – 2011
- Executive Board, Irish Centre for Rural Transformation and Sustainability (NUIG), 2008-2011
- Member of the EU Standing Committee on Agricultural Research (SCAR) working group on a Common Research Agenda for EU Rural Policy, 2006 – 2008
- Published two books on Rural Economic Development:
  - Cathal O'Donoghue, Ricky Conneely, Deirdre Frost, Kevin Heanue, Brian Leonard, David Meredith (2014) Rural Economic Development in Ireland. Carlow: Teagasc
  - Cathal O'Donoghue, Stephen Hynes, Karyn Morrissey, Dimitris Ballas, and Graham Clarke (Eds.), 2013, Spatial Microsimulation for Rural Policy Analysis. Springer-Verlag - Advances in Spatial Science.
- Advisor to OECD on New Frontiers for Agricultural and Rural Policy in Europe

Participated in an Executive Education Program (Promoting Economic Development in Rural Areas) at Boston College, 2012

## **12. ECONOMIC ADVICE TO INTERNATIONAL AND NATIONAL GOVERNMENTAL ORGANISATIONS**

- Hungarian Government Modelling Project
- Eurostat EU-SILC Working Group
- Chilean Government Policy Modelling
- Brookings Institution, Social Genome Project
- OECD, New Frontiers for Agricultural and Rural Policy in Europe
- World Bank, Policy Reform to Reduce Environmental Pollution.
- Ukraine Government and Every Child, Child Protection Reform in Ukraine
- Department of Social Welfare, Ireland, Tax-benefit policy and work incentives.
- European Commission, Tax-Benefit Policy and Work Incentives.
- OECD, Tax-Benefit Policy and Work Incentives in the EU.
- UNDP, Poverty Reduction Strategy.
- UNICEF, Taxation policy in Europe and the Family.
- Inter-American Development Bank, Public policy modelling in Brazil
- Department of Work and Pensions, UK, Policy Modelling
- UNDP, Policy Modelling and Public Expenditure planning, evaluation and monitoring, Moldova.

## **13. PERSONAL AND INTERESTS**

### **Personal**

- Native of Limerick
- Living in Galway
- 4 Dogs (Diva, Rosa, Alex and Muffin)

### **Current Interests**

- Music: Piano, Uilleann Pipes
- Sports: Running

### **University**

- Orienteering: (Secretary of the Munster Orienteering Association, 1989-91; Committee Member, UCC Orienteers 1988-90; Gold Medal, Irish Orienteering Intervarsities, 1989); Chair, UCC Adventure Sports Committee, 1990-92.
- Societies: Founder, Chair and Committee member UCC Science Society, 1989-92; Society of the Year, 1991-92; Vice Chair of the UCC Societies Guild 1991/92; Chair UCC Science Faculty Staff/Student Committee, 1989/92. Lifetime Honorary Member, Science Society 2010.

- Chair, Wolfson College Summer Ball committee, Oxford University (1300 guests, 5 venues, 15 bands and orchestra), 1993,

**14. CONTINUOUS PROFESSIONAL DEVELOPMENT**

Category	Description of Activity	Start Date	End Date	Learning Hours	Outcome/Benefit
Work based learning	Continuous x 8 hours per week				
Professional activity					
	Seminar Presentation at University of Essex (inc preparation)	15/1/2013	18/1/2013	24	
	Presentation to Eurostat Task Force on EU-Survey of Income and Living Conditions	3/2/2013	5/2/2013	24	
	Presentation on microsimulation modelling, Economic and Social Research Institute, Cabinet Office, Government of Japan	25/2/2013	1/3/2013	24	
	Presentation of paper at Agricultural Economics Society Conference	7/4/2013	10/4/2013	24	
	Presentation of Scientific Paper on Rural Town Economics, EU Presidency Conference on Rural Development	8/6/2013	10/6/2013	24	
	Seminar at Public Policy Research Institute	26/6/2013	27/6/2013	16	
	Presentation of Scientific Paper at CAP Pillar 2 Workshop	3/7/2013	4/7/2013	16	
	Seminar NUI Galway	10/9/2013	11/9/2013	16	
	Stata Workshop, Teagasc Athenry	10/10/2013	11/10/2013	8	
	European Commission/OECD workshop on Microsimulation Modelling	26/11/2013	27/11/2013	16	
	3 x Presentations to the International Microsimulation World Congress,				
Formal/educational					
	Scientific Writing Course	28/1/2013	28/1/2013	8	
	Stata Workshop, Teagasc Athenry	11/10/2013	11/10/2013	8	



Self-directed learning					
	Continuous x 8 hours per week				