

Academic Curriculum Vitae **Katharine Nora Farrell (Kate), Ph.D.**

Current Affiliations

Universidad del Magdalena, CO
Aug., 2017 – EULALinks Visiting Researcher and Lecturer
Feb., 2018 Joint Appointment with Biology and Economics

Humboldt-Universität zu Berlin, DE
Since Habilitant and Guest Researcher
Dec., 2016 Resource Economics Group, Thae-Institute of Agricultural and Horticultural Sciences
Since Associated Fellow & Coordination Team Member,
Apr., 2014 Berlin Workshop in Institutional Analysis of Social-Ecological Systems

Universitat Autònoma de Barcelona, ES
Since Associate Researcher,
Apr., 2012 L'Institut de Ciència i Tecnologia Ambientals



Personal Contact Information

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Languages English (native speaker); German (fluent spoken & written; EU C2); Spanish (fluent spoken & written; EU B2); French (survival); Algebra & Statistics (instruction level competence)

Previous Post-doctoral Academic Positions - Quick Overview

| | |
|------------------|--|
| <i>2010-2016</i> | Assistant Professor, Division of Resource Economics/Resource Economics Group, Thae-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE |
| <i>2009-2016</i> | Adjunct Lecturer in Ecological Economics, Department of Environmental Science and Policy, Central European University, Budapest, HU |
| <i>2009-2012</i> | Investigative Researcher, L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, ES. |
| <i>2008-2009</i> | Senior Researcher, Department of Policy Analysis, National Environmental Research Institute of Denmark, University of Aarhus, DK |
| <i>2006-2008</i> | Marie Curie Intra-European Fellow and Senior Researcher, Department of Social Sciences, Helmholtz Centre for Environmental Research, Leipzig, DE |

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Higher Education

- 2002-2005 Ph.D. in Ecological Political Economy (with honours)
Making Good Decisions Well: A Theory of Collective Ecological Management
Institute of Governance, Public Policy and Social Research,
School of Politics, Queen's University Belfast, UK
- 1997-2000 M.Sc. in Environmental Engineering (by research)
Department of Civil, Structural and Environmental Engineering,
Trinity College Dublin, IE
- 1993-1997 M.Sc. in Urban Policy Analysis and Management (3,9 GPA)
Robert J. Milano Graduate School of Management and Urban Policy.
New School for Social Research, US
- 1987-1991 B.A. in Political Science (3,9 GPA in major; 3,3 cumulative GPA)
(with 2 years Foundation Studies in Biochemistry)
Douglass College, Rutgers University, US

Awards and Honours

- 2017 EULALinks Visiting Researcher Fellowship
- 2007 Listed in Marquis *Who's Who in the World*
- 2006 Individual-Driven Marie Curie Intra-European Fellowship
- 2002-2005 Full Academic Merit Scholarship, Queen's University Belfast, UK
- 1999-2000 Partial Academic Merit Scholarship, Professor's Discretionary Fund,
Department of Civil, Structural and Environmental Engineering,
Trinity College Dublin, IE
- 1997 Jacob M. Kaplan Outstanding Graduate,
Robert J. Milano Graduate School of Management and Urban Policy,
New School for Social Research, US
- 1996-1997 Full Academic Merit Scholarship,
Robert J. Milano Graduate School of Management and Urban Policy,
New School for Social Research, US
- 1991 Dean's List Recognising Academic Excellence,
Rutgers University, US
- 1990 Dean's List Recognising Academic Excellence,
Rutgers University, US
- 1990 Inducted into Pi Sigma Alpha [ΠΣΑ],
National Political Science Honors Society of the US
- 1987 Awarded Advanced Placement University Degree Credits for Biology
Columbia High School, South Orange, NJ, US

Publications

Peer Reviewed Academic Journal Articles - accepted, in press or published

- Farrell**, K.N. and Silva-Macher, J.C. (2017) 'Exploring futures for Amazonia's Sierra del Divisor: an environmental valuation triadics approach to analyzing ecological economic decision choices in the context of major shifts in boundary conditions' *Ecological Economics* 141:166–179.
[doi: 10.1016/j.ecolecon.2017.04.015].
- Acosta Garcia, N., **Farrell**, K.N., Heikkinen, H. and Sarkki, S. (2017) 'A Teleological Approach to the Wicked Problem of Managing Utría National Park' *Environmental Values* 26(5): 583-605.
[available online, ahead of publication at:
[doi: 10.3197/096327117X15002190708128].
- Yu, L., **Farrell**, K.N. (2016) 'The Chinese perspective on pastoral resource economics: A vision of the future of socio-economic development of pastoralism in China in a context of ecological vulnerability' *Rev. Sci. Tech. Off. Int. Epiz.* 35 (2):523-531.
[doi: 10.20506/rst.35.2.2539]
- Topping, C.J., Fjelsted Alrøe, H., **Farrell**, K.N. and Grimm, V. (2015) 'Per aspera ad astra: through complex population modelling to predictive theory' *The American Naturalist* 186(5):669-674.
[doi: 10.1086/683181]
- Scheidel, A. and **Farrell**, K.N. (2015) 'Small-scale cooperative banking and the production of capital: Reflecting on the role of institutional agreements in supporting rural livelihood in Kampot, Cambodia' *Ecological Economics* 119:230–240.
[doi: 10.1016/j.ecolecon.2015.09.008]
- Latorre, S, **Farrell**, K.N., Martínez-Alier, J. (2015) 'The commoditization of nature and socio-environmental resistance in Ecuador: an inventory of Accumulation by Dispossession cases, 1980-2013' *Ecological Economics* 116:58-69.
[doi: 10.1016/j.ecolecon.2015.04.016]
- Watanabe, S. and **Farrell**, K.N. (2015) 'Unintended Economic Consequences of Biotrade in Namibian Marula Plant Oil: a Study of Changing Patterns of Economic Behaviour' *Jahrbuch der Österreichischen Gesellschaft für Agrarökonomie* 24: 265-274.
[http://oega.boku.ac.at]
- Farrell**, K.N. (2014) 'Intellectual Mercantilism and Franchise Equity: a critical study of the ecological political economy of international payments for ecosystem services' *Ecological Economics* 102:137-146.
[doi: 10.1016/j.ecolecon.2014.03.014]
- Latorre, S. and **Farrell**, K.N. (2014) 'The disruption of Ancestral Peoples of the Mangrove Ecosystem: class and ethnic differentiation within a changing political context' *Journal of Latin American and Caribbean Ethnic Studies* 9(3):293-317.
[doi: 10.1080/17442222.2014.959777]
- Scheidel, A., **Farrell**, K.N., Ramos-Martin, J., Giampietro, M., Mayumi, K. (2014) 'Land poverty and emerging ruralities in Cambodia: Insights from Kampot province' *Environment, Development and Sustainability* 16(4): 823-840.
[doi: 10.1007/s10668-014-9529-6]

- Ariza-Montobbio, P., **Farrell**, K.N., Gamboa, G., Ramos-Martin, J. (2014) 'Integrating energy and land use planning: Exploring the rural-urban continuum in typologies of energy metabolism in Catalonia, Spain' *Environment, Development and Sustainability* 16(4):925-956.
[doi: 10.1007/s10668-014-9533-x]
- Silva-Macher, J.C., **Farrell**, K.N. (2014) 'The Flow-Fund Model of Conga: Exploring the Anatomy of Environmental Conflicts at the Andes-Amazon Commodity Frontier' *Environment, Development and Sustainability* 16:747-768.
[doi: 10.1007/s10668-013-9488-3]
- Farrell**, K.N. and Thiel, A. Eds. (2013) 'Nudging Evolution? Critical Exploration of the Potential and Limitations of the Concept of Institutional Fit for the Study and Adaptive Management of Social-Ecological Systems (Editorial)' *Ecology and Society* 18(4):47.
[doi: 10.5751/ES-05945-180447]
[full Special Feature <http://www.ecologyandsociety.org/issues/view.php?sf=70>]
- Yu, L., **Farrell**, K.N. (2013) 'Individualized Pastureland Use: Responses of herders on institutional arrangements in pastoral China' *Human Ecology* 41(5):759-771.
[doi: 10.1007/s10745-013-9580-1]
- Ariza-Montobbio, P., **Farrell**, K.N. (2012) 'Wind Farm Siting and Protected Areas in Catalonia: Planning Alternatives or Reproducing 'One-Dimensional Thinking'?' *Sustainability* 4 (12), 3180-3205.
[doi:10.3390/su4123180]
- Schirmer, M., Lyon, K., Armstrong, J.E., **Farrell**, K.N. (2012) 'A socio-ecological adaptive approach to contaminated mega-site management: From 'control and correct' to 'coping with change' ' *J. Contam. Hydrol.* 127(1-4):101-109.
[doi:10.1016/j.jconhyd.2011.06.008]
- Koetz, T., **Farrell**, K.N., Bridgewater, P. (2012) 'Building better science-policy interfaces for international environmental governance: assessing potential within the Intergovernmental Platform for Biodiversity and Ecosystem Services' *International Environmental Agreements: Politics, Law and Economics* 12(1):1-21.
[doi:10.1007/s10784-011-9152-z]
- Farrell**, K.N. (2011) 'Snow White and the Wicked Problems of the West: a look at the lines between empirical description and normative prescription' *Science, Technology and Human Values* 36(3):334-361.
[doi: 10.1177/0162243910385796]
- Schirmer, M., **Farrell**, K.N., Lyon, K., Armstrong, J. (2011) 'Contaminated mega-site management: the complex problem challenge' *GQ10: Groundwater Quality Management in a Rapidly Changing World* (342):194-197.
- Farrell**, K.N. and Mayumi, K. (2009) 'Time Horizons and Electricity Futures: an application of Nicholas Georgescu-Roegen's general theory of economic production' *Energy - The International Journal* 34: 301-307.
[doi: 10.1016/j.energy.2008.07.002]
- Farrell**, K.N. (2008) 'The Politics of Science Concerning Sustainable Development: Marcuse's new science in the 21st Century' *Capitalism Nature Socialism* 19(4):68-83.
[doi: 10.1080/10455750802559616]

- Farrell, K.N.** (2007) 'Living with Living Systems: the co-evolution of values and valuation', *The International Journal of Sustainable Development and World Ecology* 14(1):14-26.
[doi: 10.1080/13504500709469704]
- Farrell, K.N.** and Winkler, R. Eds. (2006) Complexity and Ecological Economics (Special Issue) *Ecological Complexity* 3(4).
[doi: 10.1016/j.ecocom.2007.02.012]
- Farrell, K.N.** (2006) 'Reflections on International Political Economy and Global Environmental Governance' *Organisation & Environment* 19(2):270-274.
[doi: 10.1177/1086026606288135]
- Meadowcroft, J., **Farrell, K.N.**, Spangenberg, J. (2005) 'Governance for Sustainable Development: Developing a framework for sustainability governance in the European Union' *International Journal of Sustainable Development* 8(1/2):3-11.
[doi: 10.1504/IJSD.2005.007371]
- Farrell, K.N.**, Kemp, R., Hinterberger, F., Rammel, C. and Ziegler, R. (2005) 'From * for * to Governance for Sustainable Development in Europe - what is at stake for further research?' *International Journal of Sustainable Development* 8(1/2):127-150.
[doi: 10.1504/IJSD.2005.007379]
- Farrell, K.N.** (2005) 'Different forms of Difference in Multi-level Governance for Sustainability: connections between gender and complexity theory perspectives' *Der Öffentliche Sektor-Forschungsmemoranden* 1-2:9-19.
[http://www.ifip.tuwien.ac.at/publ/oes/oes_pdf/oes_2005_1-2.pdf]
- Farrell, K.N.** (2004) 'Recapturing Fugitive Power: epistemology, complexity and democracy' *Local Environment* 9(5):469-479.
[doi: 10.1080/1354983042000255360]

Books - contracted, in press or published

- Farrell, K.N.**, van den Hove, S., Luzzati, T. Eds. (2013) *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London. [Released in Paperback 2016]

Prefaces

Robert Costanza and Richard Norgaard

Contributors

John Barry; Mary E. Clark; Katharine N. Farrell; Mario Giampietro; C.S. Holling; Catherine Jolibert; Tommaso Luzzati; Joan Martínez-Alier; Kozo Mayumi; Mary Mellor; Cordula Mertens; Jesus Ramos-Martin; Jerome R. Ravetz; Ariel Salleh; Minna Santaoja; Vandana Shiva; Sybille van den Hove; Arild Vatn; Brian Walker

This is a book about the work of scientists in the era of the Anthropocene: where human beings appear to have become a driving force in the evolution of the planet. It is a diverse collection of empirical, methodological and theoretical chapters concerned with the practice of interdisciplinary social-ecological systems research. The aim of the contributors is to give the reader an appreciation for the range and complexity of the

challenges faced by researchers, research institutions and wider communities trying to make sense of the causes and consequences of the this new era of global environmental change.

Farrell, K.N. (2009[2005]) *Making Good Decisions Well: A Theory of Collective Ecological Management* Band 37 of the Series "Institutional Change in Agriculture and Natural Resources – ICAR" Eds. Konrad Hagedorn and Volker Beckmann, Shaker Verlag: Aachen, Germany.

This is a slightly revised version of my doctoral dissertation, published in the ICAR series at the request of Prof. Konrad Hagedorn. The point of departure for this thesis is a critique of the practice of assigning monetary values (e.g. shadow pricing, contingent valuation, travel costs measures, etc.) to ecological phenomena (monetary valuation) in order to achieve policy relevance for ecological considerations (e.g. via cost-benefit analysis, Pareto assessments, etc.). In order to carry out this critique, a set of analytical criteria were developed, which specify necessary but not necessarily sufficient conditions that must be met in order to speak about the economic worth of ecological phenomena. These criteria are based on a description of ecological phenomena as living systems, and explicitly classify human beings, their communities, perceptions and social institutions, as parts of the complex, multi-dimensional system of life on earth, comprised of multiple, inter-dependent, life related sub- meso- meta- and supra-systems. It is argued that, due to the specific characteristics of living systems, it is not only inaccurate (the traditional analytical critique of monetary valuation) but also counter-productive to represent the economic worth of priceless ecosystem goods and services through monetary valuations.

Book Chapters and Chapters in Proceedings - accepted, in press or published

- Farrell, K.N., Luzzati, T., van den Hove, S.** (2013) 'What lies beyond reductionism? mapping the structure and challenges of conducting inter-disciplinary ecological economics research' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 36-75.
- Barry, J. and **Farrell, K.N.** (2013) 'Building a Career in the Epistemological No Man's Land' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 121-153.
- Salleh, A., Mellor, M., **Farrell, K.N.** with Shiva, V. (2013) 'How Ecofeminists Use Complexity in Ecological Economics' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 154-178.
- Santaoja, M., Treffny, R., Mertens, C., Jolibert, C. with **Farrell, K.N.** (2013) 'Looking for a place to anchor: confusing thoughts along an interdisciplinary dissertation journey' In Farrell, K.N., Luzzati, T., van den Hove, S. Eds. *Beyond Reductionism: a passion for interdisciplinarity* Routledge, London: 221-248.
- Farrell, K.N.** (2011) 'The Politics of Science: has Marcuse's New Science finally come of age?' In Biro, A. Ed. *Critical Ecologies: The Frankfurt School and Environmental Politics in the 21st Century* University of Toronto Press, Toronto: 73-107.

Farrell, K.N., Lyon, K., Armstrong, J. and Schirmer, M. (2008) 'Management of Mega-contaminated Sites: the complex problem challenge' In CSMWG (Contaminated Sites Management Working Group) Ed. (2008) *Proceedings of the Federal Contaminated Sites Workshop, Vancouver, BC, 28 Apr. - 01 May, 2008*. Government Publications Office, Canada.

Working Papers - accepted, in press or published

Farrell, K.N. (2007) 'Making Sense of Science in Society: considering the downstream consequences of upstreaming' UK Economic and Social Research Council Workshop Report, ESRC Science in Society Programme, Saïd Business School, University of Oxford, Oxford, UK.

Farrell, K.N. and Ravetz J. R. Eds. (2005) 'Governance of Science: the new politics of science in historical perspective' Institute of Governance, Public Policy and Social Research Working Paper QU/GOV/2/2005.

Farrell, K.N. (2004) 'Living with living systems: exosomatic instruments and the evolution of homo sapiens' Governance for Sustainable Development (GoSD) Working Paper No. 3.

Book Reviews - accepted, in press or published

Farrell, K.N. (Invited) 'Book Review: Routledge Handbook of Ecological Economics: Nature and Society' Clive Spash Ed. (2017) Routledge. London. *Real World Economics Review*

Farrell, K.N. (Accepted) 'Review Essay: Social Costs Today: Institutional analyses of the present crisis' Paolo Ramazzotti, Pieter Frigato and Wolfram Elsner Eds. (2012) Routledge. London. *Review of Radical Political Economics*

Farrell, K.N. (2012) 'Work Meets Life: Exploring the Integrative Study of Work in Living Systems' Robert Levin, Simon Laughlin, Christina De La Rocha, and Alan Blackwell Eds. (2010) MIT Press: Book Review' *American Journal of Human Biology* 24 (2): 196-197.

Farrell, K.N. (2011) 'Tackling Wicked Problems Through the Transdisciplinary Imagination' Valerie A. Brown, John A. Harris and Jaqueline Y. Russell Eds. (2010) Earthscan: Book Review *Journal of Environmental Policy & Planning* 13 (1): 75-77.

Farrell, K.N. (2010) Review of: Eco-Sufficiency & Global Justice: Women Write Political Ecology, Ariel Salleh Ed. (2009) New York, NY: Pluto Press: *Organization & Environment* 23(4): 487-490.

Farrell, K.N. (2005) 'Ecological and Environmental Economics: Selected Issues and Policy Responses, Clem Tisdell (2003) Edward Elgar: Book Review' *Environmental Politics* 14(5):723-724.

Farrell, K.N. (2005) 'Environmental Planning in the Netherlands: Too Good to be True, From Command-and-Control Planning to Shared Governance, Gert de Roo (2003) Ashgate: Book Review' *Environmental Politics* 14(5):733-734.

Farrell, K. N. (2005) 'Complexity, Organisation and Change, Elizabeth McMillan (2004) Routledge' *Organization & Environment* 18(1):124-127.

- Farrell, K. N.** (2004) 'Critical Political Ecology, Tim Forsyth (2003) Routledge: Book Review' *Environmental Values* 13(3):403-406.
- Farrell, K. N.** (2004) 'Organisations, Policy, and the Natural Environment: Institutional and Strategic Perspectives, Andrew J. Hoffman and Marc J. Ventresca (2002) Stanford University Press: Book Review' *Environmental Politics* 13(2):503-505.
- Farrell, K. N.** (2003) 'Waste in Ecological Economics, Katy Bisson and John Proops (2002) Edward Elgar: Book Review' *Environmental Politics* 12(4):154-155.
- Farrell, K. N.** (2003) 'Review Essay: Green States and Social Movements, John S Dryzek, David Downes, Christian Hunold and David Schlosberg with Hans-Kristian Hernes (2003) Oxford University Press' *Organisation & Environment* 16(3):398-400.
- Farrell, K.** (1994) 'The Ecology of Commerce, Paul Hawken (1994) Harper Collins: Book Review' *Capitalism Nature Socialism* 5(4):132-133.

Non-Academic Publications

- Farrell, K.N.** (2002) Technical Companion Document to the Irish Alternative Country Report Telling it like it is: ten years of unsustainable development in Ireland. Prepared for and presented to the Johannesburg World Summit on Sustainable Development, Earth Summit Ireland, Dublin.
- Farrell, K.** 'How our looming waste crisis can be solved' *The Sunday Business Post, Comment & Analysis*, 12 August, 2001.
- Farrell, K.** 'Waste Not, Want Not' *Business & Finance*, 22nd-28th March, 2001.
- Farrell, K.** 'Labour, IBEC call for national waste authority' *The Sunday Business Post*, 14 February, 2001.
- Farrell, K.** 'Landed in a mess of our own making' *The Sunday Business Post*, 14 January, 2001.
- Farrell, K.** 'Ireland needs one waste plan not ten' *The Sunday Business Post: Comment & Analysis*, 19 November, 2000.
- Farrell, K.** 'Persian Gulf: whose war is it anyway?' *Rutgers Review*, 16 October, 1990.

Academic Research, Administrative and Management Experience

Staff Positions at Research Institutes and Universities

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| Humboldt-Universität zu Berlin Faculty of Agriculture and Horticulture, Division of Resource Economics / Resource Economics Group, Unter den Linden 6, 10099 Berlin, DE. | Habilitation and Guest Researcher Since Dec., 2013 <i>(defence anticipated for Jun., 2018)</i> Assistant to the Professor Klaus Eisenack Apr., 2016 – Dec., 2016 (full time) Assistant to the Professor Konrad Hagedorn Sep., 2015 – Mar., 2016 (full time) Assistant to the Professor Konrad Hagedorn Oct., 2010 – Aug., 2015 (part time – 50%) |
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Responsibilities as Habilitation and Guest Researcher

Direct Supervision of PhD Dissertations and Master Theses; Completion of Habilitation

Responsibilities as Assistant Professor

Lecturing at bachelor, master and doctoral degree level, PhD Student supervision; Academic research; General Administration and facilitation of the academic and didactic work of the division. I also served as Convenor and Senior Participant for the division's Philosophy of Science Discussion Group, which met on a bi-monthly basis to discuss classic methods and methodology texts, such as Descartes' *Discourse on Method*, Popper's *The Logic of Scientific Discovery*, and Kant's *What is Enlightenment*.

Habilitation Research

My main investigative activities during this appointment were focused on the development of my Habilitation research, which is being prepared under the sponsorship Prof. Konrad Hagedorn of Humboldt-Universität zu Berlin. The Habilitation is comprised of both theory and empirical elements and addresses the general topic of the role of technology and institutions in the small holder agricultural sector. The empirical research consist of a series of comparative case studies juxtaposing small holder practices in different countries, with the aim to develop a better understanding of the relationships between institutions, technological change and ecological impacts in small holder agricultural production. The theoretical work of the Habilitation combines theory contributions from Nicholas Georgescu-Roegen, Konrad Hagedorn and Elinor Ostrom with my existing work on ecological political economy and institutional ecological economics. My aim is to develop new understanding regarding if and if so how and to what extent the ecological and social impacts of small holder production systems, both positive and negative, are related to the characteristics of the institutions used to regulate that production and in particular to model the conceptual and practical role played by the combination of institutions and technologies in fostering ecologically sustainable small holder economic production processes in sensitive ecological contexts such as rainforests, coastal zones and high-mountain areas.

Universitat Autònoma de Barcelona
L'Institut de Ciència i Tecnologia
Ambientals (ICTA),
ICTA-ICP Building (Z) –
Campus de Bellaterra,
08193 Cerdanyola del Vallès
(Barcelona), ES.

Investigadora Vinculat
(Associate Researcher)
May 2012 – present
Investigative Researcher
Sept., 2009 – May 2012

Responsibilities as Investigadora Vinculat

Direct Supervision of PhD Dissertations; Investigative Research on Interdisciplinary Social-Ecological System Research Methodology as Political Theory

Details of Research

My investigative activity with ICTA and is oriented toward establishing a discursive community within the research institute that is disposed to subject themselves to investigation and experimentation, in the empirical research field of inter- and transdisciplinary research methodology.

Responsibilities as Investigative Researcher

Investigative research was carried out, in collaboration with Prof. Louis Lemkow, on possibilities for strengthening the theoretical depth and epistemological robustness of inter- and transdisciplinary collaborations between social and physical scientists at L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, and between them and political actors in Catalonia, Europe and internationally.

Details of Research

Investigative research was carried out in collaboration with Prof. Mario Giampietro and Prof. Joan Martinez-Alier, concerning the theoretical economics work of Nicholas Georgescu-Roegen and its relationship to the Multi-scale Integrated Assessment of Social-Ecological Metabolism (MuSIASEM) environmental economic accounting system developed by Professors Mario Giampietro and Kozo Mayumi. This work aimed to explore and develop theoretical links between the work of Professors Giampietro and Mayumi and the research of Professor Joan Martinez-Alier, which also builds in part on the theory work of Georgescu-Roegen. Whereas Giampietro and Mayumi are focused on analytical mathematics aspects of Georgescu-Roegen's work, Martinez-Alier is concerned mainly with relationships between exploitation, oppression and social metabolism. A main aim of the collaboration with Professors Giampietro and Martinez-Alier, which has been realised in the progress of the work of Prof. Giampietro's group and also in several publications, was to develop new theory that would facilitate the express combination of results and analysis concerning late-industrial ecological destruction, local and global economic processes and conflict and oppression.

In the course of this investigative work, and in conjunction with the inter- and transdisciplinary methodology research that I am now developing with Prof. Lemkow, I built the interactive website ourenergyfutures.org. This project was undertaken in collaboration with Prof. Giampietro, and with the help of Ms Barbara Rinaldi, a

professional web-developer. The website was designed to provide a dialogue and instruction platform to prepare students from 11 Catalan secondary schools to participate in a public conversation with international experts in the field of energy futures, which was held during the course of an international scientific conference on the subject, which was being convened in Barcelona at that time. The web-site (which continues to operate, with a revised format, under the supervision of Prof. Giampietro) and the associated public event, which was held at the Cosmocaixa Science Centre in Barcelona, served as an experiment in the design and operationalisation of post-normal science extended peer-review.

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| University of Aarhus National Environmental Research Institute of Denmark (NERI), Department of Policy Analysis, Grenåvej 14, 8410 Rønne, Denmark. | Senior Researcher THRESHOLDS: Thresholds of Environmental Sustainability EU Sixth Framework Programme Integrated Project (Contract No. 003933) Nov., 2008 - May, 2009 |
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Responsibilities

The main work of this appointment was to conduct a six month post-mortem study endeavouring to make sense of the vast array of diverse materials generated over the course of the four year-long ecological economics oriented European Union funded Integrated Project Thresholds of Environmental Sustainability (Thresholds) [Sixth Framework Programme, Project Contract No. 003933] and to prepare a summary analysis report, which was included as a final deliverable of the project; additional responsibilities included periodic scientific presentations at Institute seminars, advising students and researchers at the Institute on matters of inter- and transdisciplinary research methodology and conducting detailed empirical study of the social-ecological dynamics of one of the cases studied in the Integrated Project, in order to develop a fuller understanding of the objectives and challenges of the research that I was appointed to evaluate.

Details of Research

In the Thresholds project both ecological and economic dimensions of regime shifts in coastal ecosystems were formally studied, with a view to developing general theory concerning thresholds and to providing policy advice regarding strategies for the avoidance of undesirable regime shifts in coastal ecosystems and the creation of desirable ones (generally with the aim of returning a collapsed system to an earlier stability state that was either more desirable to the local community or deemed to be more natural or desirable from a conservation point of view). A summary report was generated for the project team and included as a Thresholds project Deliverable.

The aim of that report was not to generate summary policy recommendations or advice based on the conclusions of Thresholds but to reflect upon some of the methodological and theoretical challenges that came up in the course of carrying out the complex inter-disciplinary work of the project. In this respect, the work I carried out constituted a meta-analysis of the results of the project, tightly focused around the general problematique of the research field of ecological economics. Although the main

work of this study and the associated paper is theory development, the topic at hand is so big and its complexity so central to the discussion that occasional reference to empirical case situations is advisable, in order to avoid floating away into total abstraction. To keep the arguments down to earth, an empirical study of the Thresholds case study area Ringkoebing Fjord (on the western coast of the Jutland peninsula in Denmark) was carried out. Arguments developed in the report are elaborated through reference to this single case, which can be understood as an archetypical social-ecological coastal ecosystem complex, with associated collected data presented for illustrative as opposed to empirically evidential purposes.

Independently Conducted Research Projects

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| Universidad del Magdalena, Joint Appointment, with the Faculty of Basic Sciences (Biology) and the Department of Business Economics Santa Marta, Colombia | EULALinks Visiting Researcher and Lecturer Aug., 2017 - Feb., 2018 Research on the degradation and potential for sustainable use of the Santa Marta mangrove systems |
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Responsibilities

Design and execution of independent research concerning the potential for ecologically sustainable economically viable use of coastal mangrove ecosystems, provision of lectures in ecological economics, provision of advanced seminars in ecological economics production theory, collaboration with teams in the departments of biology and business economics to develop teaching and research concerned with the sustainable use of mangrove and other tropical ecosystems.

Details of Research

The theory work of the visit aims to further advance my ongoing work using the flow-fund theory of Nicholas Georgescu-Roegen to develop alternative methods of integrative valuation. I use the deterioration and sustainable use of the Santa Marta mangrove systems as a case in point. This work makes use of the vast amount of data already collected by the various teams at the Universidad del Magdalena that have been studying this system and is based on the presentation of my theory work and on subsequent feedback received from these teams, which allows me to confront my theory work with robust empirical case data.

During my stay at the Universidad del Magdalena I am developing a new theory paper, based on lessons learned from close study of the Santa Marta mangroves case. This work outlines how Nicholas Georgescu-Roegen's general theory of ecological economic production can be used to develop integrated representations of the complex ecological economic array of values associated with productive ecosystems that are actively being used by human communities. The aim of this theory work is to provide a logically coherent, empirically validated, conceptual basis for identifying the ecological economic prerequisites that must be met in order to establish and maintain the just and sustainable use of coastal mangroves, taking into account the rights and preferences of both local (direct) and international (from-a-distance) users, as well as the needs of the mangroves non-human inhabitants, such as fish and birds.

Following the initial step, outlined above, of exploring synergies and complementarities between my theory work on regeneration and sustainable use of mangroves and the work already underway at the Universidad del Magdalena on this topic, I plan to conduct empirical field work in a few selected locations, in order to collect data that allows me to better address key questions identified in the theory work. Field data will be collected in areas where mangroves are deteriorated and also in areas where mangroves are in good condition, to support comparison. Three sites have been selected for detailed study: the Salamanca Reserve, the Sanctuary for Flora and Fauna in the Ciénaga Grande (Great Swamp) of Santa Marta and the collapse mangrove system near the city of Barranquilla.

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| The Helmholtz Centre for Environmental Research - UFZ Department of Social Sciences Permoserstr. 15, D-04318 Leipzig, Germany. | Marie Curie Intra-European Fellow (EU Contract EIF - 024688) ALIVE: Accountability and Legitimacy of Governance Institutions that support Viable Environments Jan., 2006 - Mar., 2008 |
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Responsibilities

Administration of the ALIVE research contract and budget, in collaboration with the supervising investigator, Prof. Christoph Görg, presentation of ALIVE research results at academic conferences and publication of results in peer-reviewed journals, participation in seminars and regular meetings of the Department of Social Sciences, participation in the Local Organizing Committee for the 7th Biennial Conference of the European Society for Ecological Economics and execution of the ALIVE Research Project.

Details of Research

The ALIVE research was an empirical investigation of collaborations taking place at the boundary between environmental science and environmental politics. The broad aim of the work has been to help develop a better picture of the relationships between various scientific and non-scientific perspectives that contribute to local, regional, national and EU level environmental governance in Europe. The empirical data for the ALIVE research was eight cases: seven cases are interdisciplinary, participatory, environmental policy oriented research projects based at the UFZ (these projects were concerned with land use change and rehabilitation in the lignite mining and carbon chemical manufacture regions of Saxony and Saxon-Anhalt in Germany, and with the implementation of the European Water Framework Directive in eastern Germany) and one case study is a reflexive ethnography study of the UFZ social science research department, where the ALIVE research itself was based. This eighth case study was not originally part of the ALIVE research plan but eventually became integral to the project's methodology.

Data collection methods for the ALIVE research included semi-structured interviews, questionnaires, non-participant and participant observation, reflexive ethnography and document review. A data encoding system that combines an epistemic taxonomy (based on the developmental psychology theory of Multiple Intelligences) with conventional political science institutional and discourse analysis was designed to

identify the multi-level governance positioning and epistemological perspectives of the actors, institutions and decisions found in the ALIVE case studies.

The results of the ALIVE research indicate that the institutionally tagged, epistemological profiles developed in the project can be effectively employed to trace synergies and conflicts between the interventions made by actors coming from different sides of the science / policy interface. The results suggest that there may indeed be epistemological pressures at play in the projects studied, which may disadvantage some actors by pushing them to use ways of knowing that are not familiar or comfortable for them and which may advantage other actors whose epistemological comfort zones are more compatible with the ways of knowing used in project work and discussions. Several publications were generated from the research project and further analysis of the ALIVE data is ongoing. Future publications will review in greater detail the methodological implications of the research, based on reference to both the epistemological profiling and reflexive ethnography aspects.

Long-term work supported by these data and results includes ongoing interpretation of their implications for (1) the development of transdisciplinary sustainability science methodology, including work reflected in the edited collection *Beyond Reductionism* and (2) for the improvement of institutional structures of European and international multi-level environmental governance.

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| Queen's University Belfast Institute of Governance, Public Policy and Social Research School of Politics, Belfast, BT7 1NN, Northern Ireland, UK. | Ph.D. Candidate Sept., 2002 - Oct., 2005: Graduated December 2005, with honours [n.b. Queen's University Belfast does not grade PhD.s My dissertation work was approved for differentiation, following one year of study, upon the first review, and was accepted, with corrections, upon first submission for defence: this classifies as honours in the UK, or the German Sehr Gut.] |
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Thesis Supervisor: Dr John Barry
Opponent for the Defence: Dr Silvio O. Funtowicz

PhD Dissertation

Making Good Decisions Well: A Theory of Collective Ecological Management

Details of Research

The point of departure for this thesis is a critique of the practice of assigning monetary values (e.g. shadow pricing, contingent valuation, travel costs measures, etc.) to ecological phenomena (monetary valuation) to achieve policy relevance for ecological considerations (e.g. via cost-benefit analysis, Pareto Improvement assessments, etc.). In order to carry out this critique, a set of analytical criteria were developed, which specify necessary but not necessarily sufficient conditions that must be met in order to speak about the economic worth of ecological phenomena. These criteria are based on a description of ecological phenomena as living systems, and explicitly classify human

beings, their communities, perceptions and social institutions, as parts of the complex, multi-dimensional system of life on earth, comprised of multiple, inter-dependent, life related sub- meso- meta- and supra- systems.

It is argued that, due to the specific characteristics of living systems, it is not only inaccurate (the traditional analytical critique of monetary valuation) but also counter-productive to represent the economic worth of priceless ecosystem goods and services through monetary valuations. This argument is advanced by developing an evolutionary theory based, analytical critique of the pragmatic defence of monetary valuation (Farrell, 2007 – listed above).

Using these same living systems criteria, deliberative democratic discourse is then evaluated as an alternative process for articulating the economic worth contributed by ecological phenomena and is also found lacking (Farrell, 2008 – listed above). A speculative normative theory of epistemologically complex, inter-disciplinary deliberative democracy is then proposed as an alternative basis upon which it may be possible to build new democratically legitimate environmental valuation procedures that can support epistemologically complex, empirically robust articulations of the economic worth of priceless ecological phenomena.

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| Trinity College Dublin Department of Civil, Structural and Environmental Engineering, Dublin 2, IE. | M.Sc. Candidate Environmental Engineering Sept., 1997 - Sept., 1999 Graduated November, 2000 By Research, without a grade |
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Thesis Supervisor: Dr Paul Johnston

Examination Results

All civil engineering research degree candidates were required by the Civil Engineering Professor Simon Perry to complete two technical MSc course examinations, on a pass/fail basis, in order to proceed with their research studies. During the first year of my studies with the Civil Engineering Department, I sat the department's technical MSc courses in Hydrogeology and Waste Management and received pass grades upon examination.

Master Thesis

Cycles of Waste Production and Consumption: An Ecological Economic Study of Municipal Solid Waste Recovery Opportunities in Ireland

[A copy of this dissertation was requested by the Irish Environmental Protection Agency and is lodged in their head office reference library.]

Details of Research

This was a multi-disciplinary dissertation that integrated tools from the social and the physical sciences to develop policy recommendations for managing Ireland's rapidly growing municipal solid waste stream. The dissertation employed life-cycle assessment, Ecological Footprint analysis, eco-toxicological analysis, policy analysis and analysis of Leontief Input-Output matrix data for Ireland. It was intended to bridge a gap in the

discourse on environmental policy by simultaneously assessing both economic and ecological impacts of a range of waste management policy options. The overall academic aim of the work was to demonstrate that practicable policy recommendations concerning environmental planning and management can be developed on the basis of complex arrays of information and do not necessarily require recourse to single metric and commensurating analytics.

Office of Environmental Planning
and Assessment, New York City
Department of Environmental
Protection (NYC-DEP)
Queens, NY, USA.

Policy Researcher – Intern
Jan. - May, 1997

Details of Research

This internship entailed the independent research work of developing a detailed policy analysis of selected policy reform suggestions received into the DEP during a citizen feedback initiative. Work entailed: conducting interviews with DEP staff, DEP clients, and citizen who had made suggestions; collecting the materials for and executing a comparative study of federal, state and city environmental protection laws; developing a set of formal policy recommendations regarding how to respond to the received suggestions; producing reviews, analysis and reports of the research results; preparation of a final summary report to the DEP Commissioner.

Teaching Experience

Doctoral Course Teaching

2009-2016 Humboldt-Universität zu Berlin
Albrecht Daniel Thaer-Institute of Agricultural and Horticultural
Sciences
Division of Resource Economics
Unter den Linden 6, 10117 Berlin, Germany

Promotionskolleg Agrarökonomik (Doctoral Certificate Program in
Agricultural Economics), coordinated across 11 major universities in
Germany, each of which has Ph.D. students working in the area of
Agricultural Economics

Fall 2009; 2011; Module Theory, Analysis and Empirical Study of
2013 & 2015 Institutions and Organisations
Block Course, 1 week Part 1 – Approach, Frameworks and Theories
Lecturer & in 2011 &
2015 also Convenor

Fall 2010; 2012;
2014; 2016
Block Course, 1 week
*Lecturer, & in 2012,
2014 & 2016 also
Convenor*

Module Theory, Analysis and Empirical Study of
Institutions and Organisations
Part 2 – The Scientific Process and Methods

2010-2013 Universitat Autònoma de Barcelona
L'Institut de Ciència i Tecnologia Ambientals
08193 Bellaterra, Barcelona, Spain

Spring 2013
Block Course, 1 day
Lecturer

Discourse Analysis
Specialized Intensive Course on Research Design
and Methods in Political Ecology
Entitle - FP7 Marie Curie Research Training
Network

Spring 2010; 2011 &
2013
Weekly Seminar
Lecturer & Convenor

Ecofeminism Seminar
Elective course offered to doctoral and master
students registered with L'Institut de Ciència i
Tecnologia Ambientals

Spring 2010
Weekly Seminar
Lecturer & Convenor

Political Theory Seminar
Elective course offered to doctoral and master
students registered with L'Institut de Ciència i
Tecnologia Ambientals

Master Course Teaching

2015 Humboldt-Universität zu Berlin
Albrecht Daniel Thaer-Institute of Agricultural and Horticultural
Sciences
Division of Resource Economics
Unter den Linden 6, 10117 Berlin, Germany

Fall 2015
Weekly Taught
Course
*Assistant to Head of
Division, Primary
Lecturer for the
Course*

Environmental and Resource Economics III:
Institutions and Governance
Mandatory elective for students of the
Integrated Master in Rural Development, also
open to other master students at the university

- 2009-2016 Central European University
Department of Environmental Science and Policy
Nador ut 9, 1051 Budapest, Hungary
- Fall 2009; 2010;
2011 & 2012
Block Course 20 hrs
of Teaching over 4
weeks
Lecturer & Convenor Introduction to Environmental Economics,
Mandatory introductory course attended by
students registered for both the Department's
own Environmental Science Masters and the
Erasmus Mundus Masters in Environmental
Sciences, Policy and Management.
- Spring 2009; 2010;
2011; 2013; 2014;
2015 & 2016
Block Course 20 hrs
of Teaching over 4
Weeks
Lecturer & Convenor Environmental Economic Instruments,
Mandatory elective advanced course for selected
students registered for the Erasmus Mundus
Masters in Environmental Sciences, Policy and
Management
- 2006-2007 Queen's University Belfast
Gibson Institute for Land, Food & Environment
3 Lennoxvale, BT9 5BY, United Kingdom
- Spring 2006 & 2007
Block Course 20 hrs
of Teaching over 2
Weeks
Lecturer & Convenor Science and Sustainability Strand
Mandatory course for the one year MSc program
MSc in Leadership for Sustainable Development,
oriented toward giving practitioners and recent
graduates to serve as leaders in the
environmental governance of Northern Ireland
- 1996-1997 The New School for Social Research
Robert J. Milano Graduate School of Management and Urban Policy
66 West 12th Street, New York, NY, 10011, USA
- Spring 1996 & 1997
*Teaching Assistant &
Lecturer* Quantitative Methods of Statistical Analysis
Mandatory course for all Master students at the
school, statistics commonly used in policy
analysis

Bachelor Course Teaching

- 2011-2017 Humboldt-Universität zu Berlin
Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences,
Department of Agricultural Economics,
Division of Resource Economics,
Unter den Linden 6, 10117 Berlin, Germany
- Spring 2011; 2012; 2013; 2014; 2015, 2016 & 2017
Weekly Taught Course
Assistant to Head of Division & Primary Lecturer for the Course
- Umwelt- und Ressourcen Ökonomie I (Environmental and Resource Economics I)
Mandatory introductory course attended by all students studying for a Bachelor's Degree in either Agricultural or Horticultural Sciences at the Humboldt-Universität zu Berlin. Enrolment is generally on the order of 150-200 students and all lectures are conducted in German.
- Fall 2012; 2013; 2014 & 2015
Weekly Seminar
Limited to 15 students
Lecturer & Convenor
- Brückenmodul: Die Alternative und die Logik der Rettung (Bridging Module: The Alternative and the Logic of the Rescue)
Optional module designed to provide first year Bachelor students with insights into the academic study area of environmental and resource economics
- 1996 - 1997 New Jersey Institute of Technology (NJIT)
Department of Economics,
Newark, New Jersey, USA
- Spring 1996 & 1997
Weekly Taught Course
Occasional Replacement Teaching
- Introduction to Economics
Mandatory introductory course attended by all students studying for a Bachelor's Degree Engineering,

Graduated Doctoral Students

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| Dr. YU Lu Dr rer. agr., Humboldt-Universität zu Berlin, DE defended in Jun., 2017 | <i>Risk Perception, Institutions and Adaptation to Climate Change in the northern Drylands of China</i> co-supervised with Prof. Konrad Hagedorn, Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE. |
| Dr José Carlos Silva Macher Ph.D. Ecological Economics, Universitat Autònoma de Barcelona, ES defended in Dec., 2016 | <i>Studies of Social Metabolism at the Commodity Frontiers of Peru</i> co-supervised with Prof. Joan Martinez Alier, L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, ES. |
| Dr Mario Alberto Aráuz Torres Dr rer. agr., Humboldt-Universität zu Berlin, DE defended in July, 2015 | <i>An Institutional Analysis of Forest Resource Use in Nueva Segovia, Nicaragua</i> co-supervised with Prof. Konrad Hagedorn, Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE. |
| Dr Shigeo WANTANABE Dr rer. agr., Humboldt-Universität zu Berlin, DE defended in Sept., 2014 | <i>An Institutional Analysis of Biotrade Contract Implementation; the Case of Namibian Marula Plant Oil</i> co-supervised with Prof. Konrad Hagedorn, Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE. |
| Dr Jampel Dell'Angelo Ph.D. Ecological Economics, Universitat Autònoma de Barcelona, ES & La Sapienza Università di Roma, IT defended in Dec., 2013 | <i>Abusing the Commons? an integrated Institutional Analysis of Common-pool Resource Governance in Conflict Situations</i> co-supervised with Prof. Mario Giampietro, L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, ES and Prof. Vincenzo Naso, Centro Interuniversitario di Ricerca Per lo Sviluppo sostenibile, La Sapienza Università di Roma, IT. |

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| <p>Dr Sara Latorre Ph.D. Ecological Economics, Universitat Autònoma de Barcelona, ES defended in Nov., 2013</p> | <p><i>Struggles over accumulation by environmental dispossession in the periphery of the capitalist global economy: the case of Ecuador</i> co-supervised with Prof. Joan Martinez Alier, L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, ES.</p> |
| <p>Dr Arnim Scheidel Ph.D. Ecological Economics, Universitat Autònoma de Barcelona, ES defended in Jun., 2013</p> | <p><i>New challenges in rural development: A multi-scale inquiry into emerging issues, posed by the global land rush</i> co-supervised with Prof. Mario Giampietro and Dr Jesus Ramos Martin, L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, ES.</p> |

Candidate Doctoral Students

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| <p>Mr Nicolás Eduardo Acosta Garcia Ph.D. Cultural Anthropology, University of Oulu, FI due to submit spring 2017</p> | <p><i>Resource Use Policy and Conflicts between Mining, Agriculture and Tourism</i> co-supervised, under the auspices of L'Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, with Prof. Hannu I. Heikkinen and Dr Simo Sarkki, Dept. of Cultural Anthropology, University of Oulu, FI.</p> |
| <p>Mr. NGUYEN Minh Dao Dr rer. agr., Humboldt-Universität zu Berlin, DE due to submit spring 2017</p> | <p><i>Commercialisation of Agriculture, Payment for Ecosystem Services and the Dynamics of Forest Loss in Son La Province, Vietnam</i> co-supervised with Prof. Konrad Hagedorn, Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt- Universität zu Berlin, DE.</p> |

Graduated Master Students

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| Mr. Ralph Eyrich Integrated Master in Resource Management Humboldt-Universität zu Berlin, DE. defended in Jun., 2017 | <i>Tracing the Life-Cycle of Germany's Phosphorus Consumption and its Relationship to Environmental Impacts within and outside the country</i> co-supervised under the auspices of the Resource Economics Group, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt- Universität zu Berlin, DE with Prof. Annette Prochnow, Technology Assessment and Substance Cycles, Leibniz Institute for Agricultural Engineering Potsdam-Bornim, DE. |
| Mr. Daniel Schau Integrated Master in Resource Management Humboldt-Universität zu Berlin, DE. defended in Aug., 2017 | <i>Wechselwirkungen zwischen Änderungen von Institutionen und sozialen Metabolismus in der Geschichte des bayrischen Hopfenbaus: eine ökologische ökonomische Analyse materieller und energetischer Inputs des deutschen Hopfenbau mit dem Schwerpunkt der bayrischen Hallertau (Interactions between Institutional Change and Societal Metabolism in the Bavarian Hops Growing Sector: an ecological economic Analysis of material and energetic inputs to German Hops production with a focus on the Bavarian Hallertau)</i> co-supervised with Prof. Konrad Hadegorn, under the auspices of Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE. |
| Ms. Michelle Escobar International Master in Rural Development, Ghent University, BE defended in Aug., 2016 | <i>A Comparative Assessment of the Roles and Impacts of Industrial vs Meta-Industrial Agricultural Production in Chiapas, Mexico</i> co-supervised under the auspices of the Resource Economics Group, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt- Universität zu Berlin, DE with Prof. David Barkin, Universidad Autónoma Metropolitana, Xochimilco, Mexico City, MX. |

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| Ms. Jennifer Hartl International Master in Rural Development, Ghent University, BE defended in Aug., 2016 | <i>A Critical Study of the institutional impacts and implications of Payments for Ecosystem Services Schemes for Indigenous Communities in the Brazilian Amazon</i> co-supervised with Prof. Konrad Hadegorn, under the auspices of Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE. |
| Ms. Karla Rodriguez International Master in Rural Development, Ghent University, BE defended in Aug., 2015 | <i>Multiplicity and complexity landscapes approaches principles analysed in the governance of gold mining areas in Ecuador</i> co-supervised under the auspices of Division of Resource Economics, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt- Universität zu Berlin, DE with Dr Elisabet Rasch of the Department of Anthropology and Sociology of Development, Wageningen University, NL. |
| Ms. Anina Henggeler International Master in Rural Development Ghent University, BE. defended in Feb., 2016 | <i>Close the High Seas to Fishing: the Case of the Northeast Atlantic</i> co-supervised under the auspices of Division of Resource Economics, with Prof. Wolfgang Bokelmann, Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt- Universität zu Berlin, DE. |

Professional Academic Activities

Editorial Board Member

Environmental Values, since 2014

Peer Reviewer

*American Journal of Economics & Sociology; Cambridge Review of International
Affairs; Capitalism, Nature, Socialism; Ecological Complexity; Ecological Economics;
Ecology & Society; Ecosystem Services; Energy - The International Journal;
Environmental Innovation and Societal Transitions; Environmental Politics;
Environmental Science & Policy; Environmental Values; International Journal of the
Commons; Journal of Environmental Policy & Planning; Land Use Policy; Omega;
Review of African Political Economy; Science, Technology and Human Values;
Sustainability*

Scientific Committees

- ESEE 2017: 12th Biennial Conference of the European Society for Ecological Economics, Ecological Economics in Action: Building a Reflective and Inclusive Community, Corvinus University of Budapest, HU, 20-23 Jun., 2017. - *member of the Scientific Committee*
- ESEE 2015: 11th Biennial Conference of the European Society for Ecological Economics, Transformations, University of Leeds, Leeds, UK, 30 Jun.- 03 Jul., 2015. - *member of the Scientific Committee*
- ISEE 2010: 11th Biennial Conference of the International Society for Ecological Economics, Advancing Sustainability in a Time of Crisis, Bremen-Oldenburg, Germany, 22-25 Aug., 2010. - *member of the Central Conference Organising Committee; member of the Scientific Committee*
- ESEE 2009: 8th Biennial Conference of the European Society for Ecological Economics, Transformation, Innovation and Adaptation for Sustainability – Integrating Natural and Social Sciences, Ljubljana, Slovenia, 29 Jun. - 02 Jul., 2009. - *member of the Scientific Committee*
- ISEE 2008: 10th Biennial Conference of the International Society for Ecological Economics, Applying Ecological Economics for Social and Environmental Sustainability, Nairobi, Kenya, 7-11 Aug., 2008. - *member of the Scientific Committee; Secretary of the hosting society, member of the Local Organising Committee*
- ESEE 2007: 7th biennial conference of the European Society for Ecological Economics, Integrating Natural and Social Sciences for Sustainability, Helmholtz Centre for Environmental Research, UFZ, Leipzig, Germany, 5-8 Jun. 2007. - *member of the Scientific Committee; member of the Local Organising Committee*

Recent Invited Lectures

- “¿Cómo no conseguir un mercado voluntario de carbono viable? un análisis económico ecológico de la relación entre el desempeño institucional y el avance subrepticio del uso no conservativo en el Bosque Atlántico de Brasil” (How to not achieve a viable voluntary carbon market: an ecological economic analysis of the relationship between institutional performance and non-conservation creep in the Atlantic Forest of Brazil) at the XXXI Congreso Nacional de la Federación Nacional de Estudiantes de Economía, Pereira, CO, 26-30 Sep., 2016
- “Polycentricity & American Libertarianism: exploring democratic potential for collective action” Invited intervention for the Panel ‘Un-disciplining social-ecological systems: Where is the political in pursuit of a polycentric society?’ at the International Conference, Undisciplined Environments, Stockholm, SE, 20-23 Mar., 2016.
- “An Analytical Economics of Living Well: time and tradition in processes, principles and assessments of ecological economic production” Institute for Advanced Study in the Humanities, University of Duisburg-Essen, DE, 29 Oct., 2015.
- “Beyond Reductionism: a passion for interdisciplinarity” FUTURE WATER Colloquium, University of Duisburg-Essen, DE, 29 Oct., 2015.

- “Governance of Ecosystem Services: an overview” International Scientific Conference *Linking Ecosystem Services to Livelihood of Local Communities*, convened by the Seoul National University Korea, Rural Economic Institute, the Ecosystem Services Network Korea, and the International Union of Forest Research Organizations, Seoul National University, Seoul, KR, 12-16 Oct., 2015.
- “Rol de la ciencia como apoyo a la administración del sector medioambiental: posibilidades y limitaciones” (The Role of Science in supporting the administration of the environmental management sector: possibilities and limitations) Universidad Católica San Pablo, Arequipa, PE, 8. Nov., 2014.
- “Intellectual Mercantilism: ¿Es verde es el nuevo oro? ¿y cuando qué sí, que significa eso?” (Intellectual Mercantilism: is green the new gold? And if so, what does that imply?) Workshop on power relations and ecosystem services, Universidad Pablo de Olavide de Sevilla, ES, 22 Oct., 2014.
- “Coevolution of Social and Ecological Systems: An analytical economics approach” *Inception Workshop* of the Berlin Workshop in Institutional Analysis of Social-Ecological Systems (WINS), Humboldt-Universität zu Berlin, Berlin, DE, 14-16 Jul., 2014.
- Expert Commentator on “Challenges to and opportunities for biodiversity science-policy interfaces: An exploration of knowledge integration in the context of economic approaches” *Special Workshop of the FP7 Project INVALUABLE Integrating Valuations, Markets and Policies for Biodiversity and Ecosystem Services*, Albert-Ludwigs-Universität Freiburg, DE, 3-4 Mar., 2014.

Recent and upcoming Conference Paper Presentations

- V Congreso Internacional de Servicios Ecosistémico en los Neotrópicos (Firth International Congress on Ecosystem Services in the Neotropics), 13-16 Nov., 2017, Oaxaca, Mexico.
- paper accepted for presentation
 - Farrell, K.N.** ‘Mejorando la economía mejorando la ecología’ (Improving economy by improving ecology’)
- 2017 International Herbert Marcuse Society Conference, 26-28 Oct., 2017, York University, Toronto, Canada.
- paper accepted for presentation
 - Farrell, K.N.** ‘In Defense of Anti- Anti-humanism: An Essay Concerned with the Power of Love’
- Finance as a response to environmental crises? Critical analysis of the ‘economicization’ of carbon emissions and biodiversity. International Colloquium, 29 Nov.-01 Dec., 2017, University of Hamburg, Germany.
- paper accepted for presentation
 - Farrell, K.N.** and Löw-Beer, D. ‘The Value of Prices: a self-critical analysis of a transformative sovereign wealth fund’

First regional Latin American conference of the Ecosystem Services Partnership (ESP), Healthy ecosystems for resilient societies, 18-21 Oct., 2016, Cali, Colombia.

Rodriguez, O. and **Farrell**, K.N. with Ballesteros, S., Blandon, C., Bustamante, C., Bustamante, S., Castaño, J., Durán, Y., Espinosa, C., Giraldo, L., Grisales, D., Morales, D., Muñoz, M., Ramírez, F., Rios, K. and Salazar, A. 'Paisajes habitados y Pagos por Servicios Ambientales: posibilidades de innovación institucional en el Paisaje Cultural Cafetero Colombiano' (Lived in Landscapes and Payments for Ecosystem Services: possibilities for institutional innovation in the UNESCO Colombian Coffee Culture Landscape)

- paper presented

Farrell, K.N. and Raes, L. 'Combining Cockles and Carbon: a fund-flow analysis of opportunities for sustainable mangrove based production of goods and services in Costa Rica'

- paper presented

ISEE2016: 14th Biennial Conference of the International Society for Ecological Economics, Transforming the Economy: Sustaining Food, Water, Energy and Justice, 26-29 Jun., 2016, Washington, D.C., USA.

Farrell, K.N. and Barkin, D. 'Walking forward together: learning to learn'

- paper presented

British International Studies Association 40th Anniversary Conference, Session on The Place of Technology in Environmental Politics, London, 16-19 Jun., 2015

Farrell, K.N. and Markusson, N. 'To be or not to be: a study of ambivalence and ambiguity in the design and implementation of geoengineering projects'

- paper presented

ESEE 2015: 11th Biennial Conference of the European Society for Ecological Economics, Transformations, Leeds, 30 Jun.-03Jul., 2015.

Farrell, K.N. 'Is green the new gold? exploring the possible implications of an Ecosystem Services based wave of Neo-mercantilism'

- paper presented

ISEE 2014: 13th Biennial Conference of the International Society for Ecological Economics, Wellbeing and equity within planetary boundaries, Reykjavik, Iceland, 13-15 Aug., 2014.

Hiedanpää, J. and **Farrell**, K.N. 'About the foundations of ecological economics: A pragmatist revisit of Spash's new foundations'

- paper presented

EcoEco Alternativa 2014, University of Costa Rica, San José, Costa Rica, 4-8 Mar., 2014.

Farrell, K.N. 'Intellectual Mercantilism: exploring the anatomy of an alternative to the emergent transnational environmental governance regime assembled around REDD'

- paper presented

Arauz Torres, M.A. and **Farrell**, K.N. 'Regulation without Representation: documenting the logic of local resistance to top down institutional change in the regulation of Nicaragua's temperate pine forests'

- paper presented

Research Funding History

Own Projects

- 2017-2018 EULALinks Visiting Researcher with Universidad del Magdalena, in collaboration with Humboldt-Universität zu Berlin, DE
Funded by the European Union, Directorate General for Research – FP7
€ 10,800 + flights and insurance.
- 2010-2016 Staff Employment at Humboldt-Universität zu Berlin, DE
Funded by the Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt-Universität zu Berlin, DE
- 2009-2012 Special Research Grant from the Universitat Autònoma de Barcelona to research for L'Institut de Ciència i Tecnologia Ambientals
Funded by the Universitat Autònoma de Barcelona, ES
- 2009 Staff Employment at University of Aarhus, DK
Funded by the National Environmental Research Institute, DK
- 2008 Staff Employment at Helmholtz Centre for Environmental Research, DE
Funded by the Helmholtz Centre for Environmental Research, DE
- 2006-2008 Marie Curie Intra-European Fellowship, EU Contract EIF – 024688
ALIVE: Accountability and Legitimacy of Governance Institutions that support Viable Environments, hosted by the Helmholtz Centre for Environmental Research - UFZ, Leipzig
Funded by the European Union, Directorate General for Research - FP6
c. € 142,000
- 2006 Short-term Visiting Post-Doctoral Researcher Grant to research at the University of Tokushima, Shikoku, Japan. May - Jul., 2006
Funded by Japan Society for the Promotion of Science – JSPS
¥ 1,419,000 + flights
- 2005 Special Grant for a high level Workshop of the Science in Society Programme, held at the Saïd Business School, University of Oxford, Oxford, UK. 26 Jan., 2005.
Funded by the UK Economic & Social Research Council (ESRC)
c. STG£ 6,000
- 2003 Visiting Scholar Grant to research at the Agricultural University of Norway (now the Norwegian University of Life Sciences). Oct., 2003
Funded by the Norwegian Research Council
NK 17,000 + flights
- 2002-2005 Full Merit Scholarship for Ph.D. Studies at Institute of Governance, Public Policy and Social Research, Queen's University Belfast, UK
Funded by the UK Support Program for University Research (SPUR)
STG£ 8,000-9,000 per annum (3yrs)

Projects where I have been a Collaborator

- 2015-2017 Visiting Scholar Host, Berlin Workshop in Institutional Analysis of Social-Ecological Systems, Humboldt-Universität zu Berlin, DE
Georg Forster Prize winner Prof. David Barkin, Distinguished Professor of Economics, Universidad Autónoma Metropolitana, Xochimilco, Mexico City, MX,
Funded by the Alexander von Humboldt Foundation
- 2011-2015 Human-Wildlife Transactions: A Pragmatist Approach to Institutional Fit, based at the University of Eastern Finland,
Funded by the Academy of Finland
- 2005-2009 Thresholds of Environmental Sustainability, Framework Programme 6 Integrated Project,
Funded by the European Union DG Research
- 2003-2006 Thematic Network Sustainability Strategy, Coordination Action, Directed by the SERI – Nachhaltigkeitsforschungs und –kommunikations GmbH, Vienna, Austria,
Funded by the European Union DG Research

Recent Travel Grants

- 2016 German Academic Exchange Office (DAAD) Travel Grant to present the paper ‘Walking forward together: learning to learn,’ co-authored with David Barkin, at the conference ISEE2016: Transforming the Economy: Sustaining Food, Water, Energy and Justice, 26.-29. June, 2016, Washington, D.C., USA.
- 2015 OECD Co-operative Research Programme Sponsored Conference, Travel Grant, to present the lecture “Governance of Ecosystem Services: an overview” at the International Scientific Conference Linking Ecosystem Services to Livelihood of Local Communities, convened by the Seoul National University Korea, Rural Economic Institute, the Ecosystem Services Network Korea, and the International Union of Forest Research Organizations, Seoul National University, Seoul, KR, 12-16 Oct., 2015.
- 2014 Invited Lecture series in Peru, including participation at the Mesa Minería y Medio Ambiente (Roundtable Discussion on Mining and Environment) and the Summary Roundtable Discussions at the Pre-COP 20 Conference and 25th Annual Seminar of the Consorcio de Investigación Económica y Social and academic lectures at the Universidad Antonio Ruiz Montoya, Lima and the Universidad Católica San Pablo, Arequipa
Funded by the Consorcio de Investigación Económica y Social, PE
- 2013 German Academic Exchange Office (DAAD) Travel Grant to present the paper ‘Madison's Political Mandate and Today's World Government: exploring the future of Federalism as a tool for designing Earth System Governance Architectures’ at the Earth System Governance Tokyo Conference: Complex Architectures, Multiple Agents, 28.-31. Jan., 2013, Tokyo, Japan.

Further Experience in Project Management, Administration and Leadership

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| Repak Ltd. Statistics and Finance Department, Clondalkin, Dublin 22, IE. | Statistical Co-ordinator (full time) Aug., 1999 – Oct., 2000 Data Manager and Statistician (part-time) Nov., 1998 - July 1999 |
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Company Description

Repak Ltd. is a PRO-Europe (Packaging Recovery Organisation Europe) affiliated company and holds the 'Green Dot' copyright for Ireland and the United Kingdom. It is a voluntary, industry lead, government approved waste packaging recovery scheme. Packaging statistics reported to Repak by its members are used to assess member fees, which constitute the company's core revenue stream. Core company activities are packaging data administration and funding the recycling of waste packaging. Member packaging statistics also form the basis for Repak's regular reporting to the Irish Government, which in turn contributes to Irish government's packaging and waste packaging data reporting to the European Union.

Responsibilities as Statistical Co-ordinator

Member of the company Policy and Management team; Team Leader of the company's Statistical Administration and Statistical Support Services units; Provider of direct Statistical Support Services for Key Clients; Liaison to the Environmental Protection Agency; Design of membership fee assessment and invoicing calculation procedures; Supervision of fee assessment and invoicing process; Statistical analysis and reporting of data to company, clients and government.

Responsibilities Data Manager and Statistician

Creation of the information management system used for the administration of members' statistical submissions; Development and implementation of membership training courses on statistical reporting; Completion of statistical calculation software project already underway at the time of hire; Administration of all statistical data and related materials; Design of statistical submission forms and guidance documents; Provision of member statistical support services; Local Area and Dialogue Network Administration.

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| New School for Social Research Office of Development and Alumni Relations 66 West 12th St. New York, NY 10011, USA. | Telefund Supervisor (full-time) Sept., 1994 - July 1995 Telefund Supervisor (part-time) Sept., 1993 - Aug. 1994 |
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Telefund Unit Description

The New School is a unique university, comprising several completely independent institutions, each with an independently administered Alumni Association Annual Fund.

The Telefund was responsible for soliciting and administering the processing of the initial and annual Alumni subscriptions for all five schools of the university through telephone based fundraising.

Responsibilities as Telefund Supervisor (full-time)

Direct supervision of a staff ranging between 5-10 fundraisers and between 2-5 administrative support personnel; Liaison to university academic divisions; Training of Trainers and Telefund Callers; Supervision of administrative and calling activities; Setting and achieving daily, weekly and monthly fund-raising targets; Supervision of fund-raising-call script writing and revision.

Responsibilities as Telefund Supervisor (part-time)

Development of performance and pledge-fulfilment tracking systems; Administration of daily Telefund activities; Supervision of administrative and calling activities; Staff development, training and goal setting with Telefund Callers; Script writing, including test calling; Co-ordination of Telefund Caller and administrative staff recruitment.

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| New Jersey Environmental Federation (NJEF) | Senior Phone Canvass Manager |
| New Brunswick, NJ, USA. | Nov., 1992 - July 1993 |
| [now located in Long Branch] | Phone Canvass Manager |
| | Nov., 1991 - Nov., 1992 |

Organisation Description

NJEF is a citizen funded grassroots lobby organisation, advocating state and federal legislation to preserve and safely manage environmental resources. All funding for NJEF's work is secured directly through private citizen donations. The phone canvass operation serves as a core means for communicating with membership about NJEF activities and as a primary funding resource for the organisation.

Responsibilities as Senior Phone Canvass Manager

Phone Canvass Management, team member; Staff development and training of Phone Managers; Liaison to Lobbyist and Organisers; Supervision of all telephone fund-raising activities; Start-up support for non-profit fund-raising projects throughout the United States

Responsibilities as Phone Canvass Manager

Phone Canvass Management, team member; Staff development and training of Trainers; Supervision of training and administrative teams; Periodic lead phone canvass operator; Start-up and management of an off peak fund-raising shift; Fund-raising-call script writing; on call support for Trainers during calling shifts; Start-up support for non-profit fund-raising projects throughout the United States