

Peter Mulder



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Date of Birth 28.09.1974; Married, 2 children (2012, 2014)

Languages: Dutch (mother tongue), English (fluent), Portuguese (good), German (good)

Education

Ph.D Economics, Vrije Universiteit Amsterdam, 2003.

Specialization: Macroeconomics, energy economics.

Dissertation: On the Economics of Technology Diffusion and Energy Efficiency.

MSc Economics, Vrije Universiteit Amsterdam, 1998.

Specialization: Macroeconomie, milieueconomie; bijvakken in filosofie en geschiedenis.

Thesis: Evolutionaire economie, de theorie van zelforganisatie en duurzame ontwikkeling. Een onvoltooide symfonie. [Evolutionary Economics, the Theory of Self-Organisation and Sustainable Development. An Unfinished Symphony].

Academic and research positions

- 2007 – Assistant Professor
Department of Spatial Economics, Vrije Universiteit Amsterdam
- 2011 Visiting Research Fellow
Department of Agricultural Economics, Purdue University, Indiana, USA
- 2005 – 2007 Consultant / beleidsadviseur in Mozambique
Ministry of Energy, Directorate Studies en Planning (DEP)
Ministry of Economic Affairs (MPD), Directorate Economic Analysis and Policy (DNEAP)
via Embassy Denmark, Maputo & Danish International Development Agency (DANIDA)
- 2004 – 2005 Post-Doctoral Researcher
Department of Spatial Economics, Vrije Universiteit Amsterdam
- 2003 – 2004 Research Scholar
International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria
- 1998 – 2003 Junior Researcher / Ph.D. student
Institute for Environmental Studies (IVM), Vrije Universiteit Amsterdam
CPB Netherlands Bureau for Economic Policy Analysis, The Hague, The Netherlands

Management

- 2017 – Coordinator partnership Vrije Universiteit Amsterdam / Spatial Economics & Universitas Indonesia / Faculty Economics, Jakarta
- 2015 – 2017 Chairman Educational Committee, Earth & Economics BSc program, VU Amsterdam
- 2013 – Coordinator minor Spatial Economics, VU Amsterdam
- 2013 – 2018 Coordinator KNAW Interdisciplinary research project 'Local and Regional dimensions in Indonesia's social and economic development; a governance approach'. In collaboration with KITLV Leiden University.
- 2013 – 2016 Member, Board of Examiners, University College Amsterdam
- 2008 – 2015 Member Educational Committee, Earth & Economics BSc program, VU Amsterdam

Consultancy / Policy Advice

- 2009 – 2012
- Training LEAP Energy Planning System, Ministerie van Energie Mozambique
 - Update National Energy Statistics Mozambique, in collaboration with Ministry of Energy and Eduardo Mondlane Universiteit Mozambique
- 2005 – 2007
- Advising Minister of Energy and National Directors of DEP and DNEAP about current affairs, investment projects; pricing policy fuels and electricity.
 - Capacity building staff Ministries of Energy and Economic Affairs (MPD).
 - National Strategy Energy sector Mozambique 2007-2012
Substantive guidance regional consultation workshops with provincial governing bodies and energy companies; writing of draft strategy.
 - *Energy Outlook Mozambique*, DNEAP Discussion Paper No.53E.
 - Development and calibration 1th planning- and scenario model energy sector in Mozambique
 - *Exploring Natural Resources in Mozambique. Will it be a blessing or a curse?*
DNEAP Discussion Paper No.54E. (with A. Bucuane)
 - Development and communication of National Energy Statistics 2006, Mozambique
 - Development and communication of 1th National Energy Statistics 2000-2005, Mozambique
 - *Exploring an Electricity Tax on Mega Projects in Mozambique*
DNEAP Discussion Paper No.37E. (with A. Bucuane)
 - *Rural Electrification in Mozambique* (a Cost-Benefit Analysis)
DNEAP Discussion Paper No.36E. (with J. Tembe)
- 2000
- *Impact of the Oil Price Increase on the Mozambican Economy* (in Portuguese)
DNEAP Discussion Papers No.19P. (with C. Arndt, L. Matsinhe, E. Paulo en J.E. Van Dunem)
- Effectiveness Energy Subsidies, Report for Workinggroup IBO EnergySubsidies, Utrecht: Ecofys (with J. de Beer, M. Kerssemeeckers, R. Aalbers, H.R.J. Vollebergh, I. Ossokina, K. Blok)

Research Interests

Economics of energy transitions, cities and the spatial structure of economic development, the relationship between energy use and urbanization in developing countries, spatial inequality and the role of institutions and governance in economic development.

Academic publications

- Dobis, E.A., M.S. Delgado, R.J.G.M. Florax, P. Mulder (2019). Spatial Contagion, Hierarchy, and Population: American cities 1990-2010. *Journal of Economic Geography*, [Juni 2019].
- Díaz Lanchas, J., R.J.G.M. Florax, P. Mulder (2019). *Does decentralization of governance promote urban diversity? Evidence from Spain*. EU/JRC Working Paper.
- Berenschot, W., P. Mulder (2019). Explaining regional variation in local governance: clientelism and state-dependency in Indonesia. *World Development* 122, 233-244.
- Kurniawan, H., H.L.F. de Groot, P. Mulder (2019), Are poor provinces catching-up the rich provinces in Indonesia?, *Regional Science, Policy and Practice* 11, 89-108.
- Mahumane, G.M., P. Mulder (2019), Expanding versus greening? Long-term energy and emission transitions in Mozambique, *Energy Policy* 126, 145-156.
- Bakens, J., H.L.F. de Groot, R.J.G.M. Florax, P. Mulder (2018). *Living Apart Together. The Economic Value of Ethnic Diversity in Cities*. Tinbergen Discussion Paper 18-029/VIII, Amsterdam/Rotterdam: Tinbergen Institute.

- Bakens, J., R.J.G.M. Florax, P. Mulder (2018), Ethnic Drift and White Flight: A Gravity Model of Neighborhood Formation, *Journal of Regional Science* 58, 921-948.
- Mahumane, G.M., P. Mulder (2016), Introducing MOZLEAP: an integrated long-run scenario model of the emerging energy sector of Mozambique, *Energy Economics* 59, 275-289.
- Wan, J., K. Baylis, P. Mulder (2015), Trade-Facilitated Technology Spillovers in Energy Productivity Convergence Processes across EU Countries, *Energy Economics* 48, 253–264.
- Mulder, P. (2015), International Specialization, Sector Structure and the Evolution of Manufacturing Energy Intensity in OECD Countries, *The Energy Journal* 36(3), 111-136.
- Mulder, P., H.L.F. de Groot, B. Pfeiffer (2014), Dynamics and determinants of energy intensity in the service sector: A cross-country analysis, 1980–2005, *Ecological Economics* 100, 1-15.
- Andadari, R.K., Mulder, P., P. Rietveld (2014), Energy poverty reduction by fuel switching. Impact evaluation of the LPG conversion program in Indonesia, *Energy Policy* 66, 436–449
- Pfeiffer, B., P. Mulder (2013), Explaining the Diffusion of Renewable Energy Technology in Developing Countries, *Energy Economics* 40, 285–296
- Bakens, J., P. Mulder, P. Nijkamp (2013), Economic impacts of cultural diversity in The Netherlands: productivity, utility and sorting, *Journal of Regional Science* 53, 8-36.
- Mulder, P., H.L.F. de Groot (2013), Dutch Sectoral Energy Intensity Developments in International Perspective, 1987–2005, *Energy Policy* 52, 501-512
- Mulder, P., H.L.F. de Groot (2012), Structural Change and Convergence of Energy Intensity Across OECD Countries, 1970–2005, *Energy Economics* 34, 1910–1921
- Mulder, P., P. Nijkamp, R. Stough (2012), *Spatial Economic Analysis* 7 (3), 2012. Guest editor Special Issue: Modelling Innovation, Entrepreneurship and Regional Development.
- Florax, R.J.G.M., H.L.F. de Groot, P. Mulder (2011). *Improving Energy Efficiency through Technology: Trends, Investment Behaviour and Policy Design*, Cheltenham: Edward Elgar.
- Mulder, P., H.L.F. de Groot (2011), *Energy Intensity across Sectors and Countries: Empirical Evidence 1980–2005*, CPB Discussion Paper 171, The Hague: CPB Netherlands Bureau for Economic Policy Analysis.
- Bucuane, A.J., P. Mulder (2009), ‘Prospects for an Electricity Tax’, in: Arndt, C. and F. Tarp (eds.), *Taxation in a Low-Income Economy – The case of Mozambique*, 302-327. London/NewYork: Routledge.
- Bucuane, A.J., P. Mulder (2009), ‘Expanding exploitation of natural resources in Mozambique: Will it be a blessing or a curse?’, in: Brito, L. de, C. Castel-Branco, S. Chichava, A. Fransisco (eds.), *Reflecting on Economic Questions*, 104-153. Maputo: IESE.
- Mulder, P., J. Tembe (2008), Rural Electrification in an Imperfect World: A case study from Mozambique, *Energy Policy*, 36, 2785-2794.
- Mulder, P., H.L.F. de Groot (2007), Sectoral Energy- and Labour-Productivity Convergence, *Environmental and Resource Economics*, 36, 85–112.
Herdruckt in: L. Bretschger en S. Smulders (2007, eds), *Sustainable Resource Use and Economic Dynamics*, 165–190, Springer, Dordrecht.
- Miketa, A., P. Mulder (2005), Energy-Productivity Across Developed and Developing Countries in 10 Manufacturing Sectors: Patterns of Growth and Convergence, *Energy Economics* 27, 429-453.
- Mulder, P. (2005). *The Economics of Technology Diffusion and Energy Efficiency*. Cheltenham: Edward Elgar.
- De Groot, H.L.F., M.W. Hofkes, P. Mulder (2004), ‘A Vintage Model of Technology Diffusion: The effects of learning-by-doing and returns to diversity’, in: S. Brakman, B. Heijdra (eds), *The Monopolistic Competition Revolution in Retrospect*, 356-372. Cambridge: Cambridge University Press.
- Mulder, P., H.L.F. de Groot (2004), *Decoupling Economic Growth and Energy Use. An Empirical Cross-Country Analysis for 10 Manufacturing Sectors*, Tinbergen Discussion Paper 04-005/3, Amsterdam/Rotterdam: Tinbergen Institute.
- Mulder, P. (2004), NEMO: CPB’s energievraagmodel tussen top-down en bottom-up, *Kwartaalschrift Economie* 1, 131-153

- Mulder, P. H.L.F. de Groot, F.A.G. den Butter (2004). 'De Energie- en Arbeidsproductiviteit van Nederland in Internationaal Perspectief', in: H.R.J. Vollebergh, W. van Groenendaal, M.W. Hofkes and R. Kemp (eds), *Milieubeleid, Technologische Ontwikkeling en de Nederlandse Economie*, Den Haag, SDU, 101-125.
- De Groot, H.L.F., M.W. Hofkes, P. Mulder, J.A. Smulders (2004). 'Dynamiek van Technologie-ontwikkeling: Innovatie, Adoptie en Diffusie', in: H.R.J. Vollebergh, W. van Groenendaal, M.W. Hofkes, R. Kemp (eds), *Milieubeleid en Technologische Ontwikkeling in de Nederlandse Economie*, Den Haag, SDU, 45-63.
- Den Butter, F.A.G., H.L.F. de Groot, P. Mulder (2003), Energie en Arbeid: Vrienden of Vijanden?, *Economisch Statistische Berichten* 88, no.4407, 295-297
- Mulder, P., H.L.F. de Groot, M.W. Hofkes (2003), Explaining Slow Diffusion of Energy-Saving Technologies. A vintage model with returns to diversity and learning-by-using, *Resource and Energy Economics* 25, pp.105-126.
- De Groot, H.L.F., P. Mulder, D.P. van Soest (2002). *Subsidising the Adoption of Energy-Saving Technologies: Analyzing the Impact of Uncertainty, Learning and Maturation*, OCFEB Research Memorandum, no. 0201, Rotterdam: OCFEB.
- Mulder, P., J.C.J.M. van den Bergh (2001), Evolutionary Economic Theories of Sustainable Development, *Growth and Change* 32, pp.110-134.
Herdruckt in: Witt, U. (ed.), *Recent Developments In Evolutionary Economics*, vol. 228 in The International Library of Critical Writings in Economics series. Cheltenham: Edward Elgar.
- Mulder, P., H.L.F. de Groot, M.W. Hofkes (2001). Economic Growth and Technological Change. A comparison of insights from a neo-classical and evolutionary perspective, *Technological Forecasting and Social Change* 68, 151-171

Other publications

- Van der Werf, G.R., G.C. van der Meijden, P. Mulder, (2019). *Klimaatverandering in je moerstaal*. VU Reader.
- De Groot, H.L.F. de, P. Mulder (2015), We moeten ons niet richten op de armen, maar op de middenklasse, *Parool* 27-08-2015, Opinie. [Over de woningmarkt in Amsterdam.]
- Bakens, J., H.L.F. de Groot, P. Mulder, C.J. Pen (2014). *Soort zoekt soort. Clustering en sociaal-economische scheidslijnen in Nederland*. Platform 31.
- Mulder, P. (2013), Recensie van D. Acemoglu en J. Robinson - Waarom sommige landen rijk zijn en andere arm, *Nederlands Dagblad* 22-03-2013
- Mulder, P. (2012), Recensie van T. Sedlacek - De economie van goed en kwaad, *Nederlands Dagblad* 23-10-2012
- Mulder, P. (2011), Recensie van D. Saunders - De trek naar de stad, *Nederlands Dagblad* maart 2011
- Mulder, P. (2010), Leve de markt, maar wel in de economie. *Nederlands Dagblad* 14-05-2010
- Mulder, P. (2010), *Co-referaat Groen van Prinstererlezing 2010 door Bob Goudzwaard*, in: Crisistijd, Wetenschappelijk Bureau ChristenUnie.
- Van de Kamp, L.J., P. Mulder (2009), Van de prins geen kwaad, *Volkscrant* 03-10-2009, Opinie. [Over de aankoop van een vakantiehuis in Mozambique door de kroonprins der Nederlanden.]
- Mulder, P. (2008), Samaritanendom, *Radix* 34, 146-176. [Over nut en nadeel van ontwikkelingshulp.]
- Mulder, P. (2002), Globalisering, of hoe meer mensen meer met elkaar te maken hebben, *Radix* 28, 159-168.
- Mulder, P. and H.L.F. de Groot (2002). Leren Vereist Investeren, *Economisch Statistische Berichten*, 85, no.4284, 980-982.
- De Groot, H.L.F. and P. Mulder (2000). Leren, Weten en Vergeten, *Economisch Statistische Berichten* 85, no.4270, 687.

Citations (June 2019)

Web of Science: 474 (h-index=12); Google Scholar: 1494 (h-index=20, i10-index=28).

Work in progress

- Power Density and Urbanization, 1800-2000 (met Fenneke van de Poll)
- Income Inequality Dynamics in Decentralizing Indonesia (met I.S. Rosidin en H.L.F. de Groot)
- Does Urbanization Hamper Renewable Energy Transitions in Developing Countries? (met C. Bogmans)
- Transport Policies and Urban Air Pollution in Developing Countries (met R. Borck)
- On the Urbanization of Energy Poverty. Evidence from Mozambique (met G.M. Mahumane)
- Urban Settlement in the United States: Birth, Location and Growth of Incorporated Places (met E. Dobis, M. Delgado en R.J.G.M. Florax)

Contributions to International Conferences

- 2019 – Elsevier Conference on Energy Research and Social Science, Phoenix, USA
- 2018 – Sustainability and Development Conference, University of Michigan, Ann Arbor, USA
- 2018 – World Congress Regional Science International, Goa, India
- 2017 – Urban Economics Association / North American Regional Science Council, Vancouver, Canada
- 2016 – Urban Economics Association / North American Regional Science Council, Minneapolis, USA
- 2015 – Urban Economics Association / European Regional Science Association, Lissabon, Portugal
- 2014 – European Regional Science Association, St. Petersburg, Rusland
- 2013 – North American Regional Science Council, Atlanta, USA
- 2012 – International Energy Workshop, Kaapstad, Zuid-Afrika
- 2011 – North American Regional Science Council, Miami, USA
- 2011 – European Regional Science Association, Barcelona, Spanje
- 2010 – International Energy Workshop, Stockholm, Zweden
- 2010 – WIOD Conference ‘Industry-Level Analyses of Globalization and its Consequences’, Wenen, Oostenrijk
- 2009 – North American Regional Science Council, San Fransisco, USA
- 2008 – Stanford Energy Modeling Forum, Working Group 25, Washington DC, USA
- 2006 – International Energy Workshop, Kaapstad, Zuid-Afrika
- 2004 – Annual Congress of the European Regional Science Association, Porto, Portugal
- 2004 – Monte Verità Conference on Sustainable Resource Use and Economic Dynamics, Ascona, Zwitserland,
- 2003 – International Energy Workshop, IIASA, Laxenburg, Oostenrijk
- 2002 – 2nd World Congress of Environmental and Resource Economists, Monterey, USA
- 2002 – International Energy Workshop, Stanford University, USA
- 2001 – Congress of the European Association of Environmental and Resource Economists, Southampton, UK
- 2000 – KNAW Workshop ‘Economic Modelling of Environmental Policy and Endogenous Technological Change’, Amsterdam
- 2000 – International Energy Workshop, Stanford University, USA
- 1999 – Workshop ‘Endogenous Growth Policy and Regional Development’, Tinbergen Instituut Amsterdam

Reviewer academic journals

Amongst others: Applied Energy, Ecological Economics, Economics Bulletin, Energy Journal, Energy Economics, Energy Research and Social Science, Energy Policy, Environmental Research Letters, Journal of Economic Growth, Journal of Economic Geography, Journal of Environmental Economics and Management, Journal of Regional Science, Papers in Regional Science, Journal of Regional Science and Urban Economics, Resource and Energy Economics, Spatial Economic Analysis, World Development

Teaching

Courses:

2018 –	Governance for Society – Economic Inequality & Political Populism in Europe	VU, BSc Philosophy, Politics & Economics (PPE)
2017 –	Urban Economics & Regional Policy	Universitas Indonesia / Faculteit Economie, Jakarta
2016 –	The City	UvA, BSc Beta-Gamma Institute for Interdisciplinary Studies (IIS)
2016 –	Economic Ethics	VU, BSc Economics
2016 –	Micro-economics II	VU, BSc Earth & Economics
2013 –	Research Seminar Spatial Economics	VU, BSc Earth & Economics
2011 –	Urban Economics	VU, BSc Economics
2011 –	Micro-economics I	VU, BSc Earth & Economics
2007 –	Thesis supervision	VU, BSc Economics / Earth & Economics VU, MSc Economics / Spatial Economics University College Amsterdam
2013 – 2016	The Sustainable City	University College Amsterdam
2011 – 2012	Urban Economics	University College Amsterdam
2011	International Economic Development	Purdue University, USA
2007 – 2016	Regional Economics	VU, BSc Earth & Economics
2007	Environmental Economics	Catholic University Mozambique (UCM), Beira

Qualifications: Senior Teaching Qualification (SKO), 2018; University Teaching Qualification (BKO), 2008.

PhD students

Adivsor:	Jessie Bakens – Economic Impacts of Immigrants and Ethnic Diversity on Cities (09-09-2016) Sotya Fevreira – Growth, Urbanization and Energy Use in Indonesia (defense: end 2019) Gilberto Mahumane – Energy Transitions in Mozambique (defense: end 2019). Isfandiarni Soenarto Rosidin – Spatial Inequality in Indonesia (defense: spring 2020?)
Committee:	Haroon Sheikh – Embedding Technopolis (2012, VU Amsterdam), Elizabeth Dobis – The Evolution of the American Urban System: History, Hierarchy and Contagion (2017, Purdue University, USA)

Grants

Awarded

2016	NWO / ERA-NET Cofund Smart Cities and Communities (ENSCC) Urban form, location choice and transport solutions for low-carbon cities.
2013	KNAW – SPIN Local and Regional dimensions in Indonesia's social and economic development; a governance approach.
2003	NWO Grant Research Fellowship IIASA (6 maanden)

Rejected

2016	NWO-ORA: Energy use and the spatial structure of the economic system in developing countries
2015	ERC Consolidator Grant 2015 (laatste ronde) Energy use, urbanization and the spatial structure of economic development in Africa
2008	NWO-VIDI Economic Interaction in a Globalizing World. The role of institutions, culture, and transnational networks.