

Curriculum Vitae

Peter Mulder



TNO Energy& Material Transitions

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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)

Short CV

I am an economist working as senior researcher at TNO Energy Transition Studies (since 2020), and part-time Associate Professor at the Copernicus Institute for Sustainable Development of Utrecht University (since 2023).

I obtained a Ph.D. in Economics from Vrije Universiteit Amsterdam (2003) with a thesis on the economics of technology diffusion and energy efficiency, based on research carried out at the Institute for Environmental Studies (IVM) of Vrije Universiteit Amsterdam and the CPB Netherlands Bureau for Economic Policy Analysis. Subsequently, I've been an associate research scholar at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria, and a post-doctoral researcher at the Department of Spatial Economics of VU University Amsterdam.

In 2005 I interrupted academia to work in Mozambique as a consultant/energy policy adviser at the Ministry of Planning & Development and the Ministry of Energy of the Government of Mozambique, through the Danish International Development Agency (Danida). In 2007 I returned to Vrije Universiteit Amsterdam where I worked at the Spatial Economics Department as assistant professor until joining TNO in 2020. During the 2011 spring semester I was visiting research fellow at the Department of Agricultural Economics of Purdue University, West Lafayette, Indiana (USA).

My research can best be summarized as applied empirical economic research into the distributional and broad welfare effects of the energy transition. To this aim I use microdata and microsimulation models and combine insights from macro-, energy and spatial economics while working as much as possible in interdisciplinary teams. Current research topics projects that I am involved in, include inequality in the energy- and mobility transition; energy- and transport poverty; employment effects of the energy transition; income effects of home insulation; spatial implications of the energy transition.

I am fascinated by the phenomenon of technology diffusion – which is often at least as costly, lengthy and difficult as technological innovation and can only be understood by multidisciplinary research. Apart from the economics of the energy transition, I am interested in research on energy use and urbanization, cities and the spatial structure of economic development, spatial inequality, and the role of institutions and governance in economic development.

My research on the unequal distribution of welfare effects in the energy transition is regularly appearing in Dutch media and has led me to frequently advise policy makers at the national and local level.

Long CV

Education

- Ph.D Economics, Vrije Universiteit Amsterdam, 2003.
Specialization: Macro- and energy economics.
Dissertation: On the Economics of Technology Diffusion and Energy Efficiency.
- MSc Economics, Vrije Universiteit Amsterdam, 1998.
Specialization: Macro- and environmental economics; extracurricular subjects in Philosophy & History.
Thesis: Evolutionary Economics, the Theory of Self-Organization and Sustainable Development. An Unfinished Symphony [in Dutch].

Employment

- 2023 – Associate Professor
Utrecht University, Faculty of Geoscience, Copernicus Institute of Sustainable Development
- 2020 – Senior Researcher
TNO Netherlands Organization for Applied Scientific Research, Energy Transition Studies
- 2007 – 2020 Assistant Professor
Department of Spatial Economics, Vrije Universiteit Amsterdam
- 2011 Visiting Research Fellow
Department of Agricultural Economics, Purdue University, Indiana, USA
- 2005 – 2007 Consultant / policy advisor in Mozambique
Ministry of Energy, Directorate Studies and 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

- 2022 – Scientific Lead, TNO Early Research Project ‘Socio-economic impact green transitions’
- 2020 – Project leader TNO, various research projects.
- 2017 – 2020 Coordinator partnership Vrije Universiteit Amsterdam / Spatial Economics & Universitas Indonesia / Faculty of Economics and Business, Jakarta.
- 2015 – 2017 Chairman Educational Committee, Earth & Economics BSc program, VU Amsterdam.
- 2013 – 2020 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.

Research Interests

Economics of energy transitions, inequal welfare effects of energy- and mobility transitions, cities and the spatial structure of economic development, energy use and urbanization, spatial inequality, role of institutions and governance in economic development.

Current research

Distributional and economic welfare effects of the energy transition; inequality in the energy- and mobility transition; energy- and transport poverty; employment effects of the energy transition; income effects of home insulation; spatial implication of the energy transition.

Citations (May 2026)

Web of Science: ~1600 (h-index: 18); Google Scholar: ~3587 (h-index: 26, i10-index: 41).

Academic publications under submission

Urban densification as climate adaptation: balancing risks and agglomeration benefits in the Netherlands.
With Y. Premchand

Operationalizing Just Transition: A Data-Driven Framework for Assessing Household Vulnerability to Climate Change and the Green Transition. With B. Hopman, F. Dalla Longa, M.A. Rodriguez Acosta, E. Wijnhuizen

Unequal household vulnerability to high energy prices and the elusive quest for targeted policy support: Evidence from the Netherlands. With A. Batenburg, H. Boonman, B. Hopman, F. Dalla Longa, M.A. Rodriguez Acosta

Unequal income effects of home insulation across heterogeneous households: A microsimulation analysis for the Netherlands. With E. Mot, N. Phan, V. Schippers, R. Schulenberg, C. Tigchelaar, A. Zwamborn, E. Griffioen.

Variation of gas use for space heating: cost implications when switching from gas to district heating. With M. Tsepkumah, R. Harmsen

Academic publications

Geijtenbeek, L., Mulder, P. & Niessink, R. (2026). Beyond energy labels: estimating housing energy efficiency and energy underconsumption using administrative microdata, *Energy Efficiency* 19(5).

Visseren, L., A. Batenburg, F. Dalla Longa, P. Mulder (2026). Is energy poverty characterized by a gender and migration bias? Microdata evidence from the Netherlands, *Energy Research & Social Science* 131, 104502.

Rosidin, I.S., H.L.F. de Groot, P. Mulder (2026). Power Islands. On the geography of electricity diffusion in Indonesia, *Energy Strategy Reviews* 64, 102077.

Gasparini, D., Mulder, P., J. Bakens, N. Pestel (2025). How green are jobs for the energy transition? *Energy Research & Social Science* 129, 104368.

Gasparini, D., Mulder, P., J. Bakens (2025). Mapping regional vulnerability to the energy transition: the case of the Netherlands, *Review of Regional Research* 45, pp. 465–504.

Dalla Longa, F., P. Mulder, R. Sterkenburg (2025). Stuck in the Sustainable Mobility Transition: A Spatial Analysis of Transport Poverty Risk in the Netherlands. *Journal of Transport Geography* 127, 104266 (July).

Borck, R., P. Mulder (2024). Energy policies and pollution in two developing country cities: A quantitative model. *Journal of Development Economics*, 171, 103348.

Croon, T.M., J.S.C.M. Hoekstra, M.G. Elsinga, F. Dalla Longa, P. Mulder (2023). Beyond headcount statistics: Exploring the utility of energy poverty gap indices in policy design. *Energy Policy* 177,

- Mulder, P., F. Dalla Longa, K. Straver (2023). Energy poverty in the Netherlands at the national and local level: A multi-dimensional spatial analysis, *Energy Research & Social Science* 96, 102892.
- Bakens, J., H.L.F. de Groot, R.J.G.M. Florax, P. Mulder (2022). Living Apart Together. The Economic Value of Ethnic Diversity in Cities. *Environment and Planning B: Urban Analytics and City Science*.
- Mahumane, G.M., P. Mulder (2022). Urbanization of Energy Poverty? The case of Mozambique. *Renewable and Sustainable Energy Reviews*, Volume 159, 112089.
- Janssen, K., P. Mulder, M.H. Yudhistira (2021). Spatial Sorting of Rich versus Poor People in Jakarta. *Bulletin of Indonesian Economic Studies*, 17 Nov 2021.
- Díaz Lanchas, J., P. Mulder (2021). Does Decentralization of Governance Promote Urban Diversity? Evidence from Spain. *Regional Studies* 55, 1111-1128.
- Fevriera, S., H.L.F. de Groot, P. Mulder (2020). Does Urban Form Affect Motorcycle Use? Evidence from Yogyakarta, Indonesia. *Bulletin of Indonesian Economic Studies*, 4 May 2020.
- Dobis, E.A., M.S. Delgado, R.J.G.M. Florax, P. Mulder (2020). Spatial Contagion, Hierarchy, and Population: American cities 1990-2010. *Journal of Economic Geography* 20, 397-418.
- 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., 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
- Reprinted in: Fouquet, R. (ed.), *Economics of Renewable Energy*, vol. 347 in The International Library of Critical Writings in Economics series. Cheltenham: Edward Elgar.
- 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.
Reprinted in: L. Bretschger and 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., 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.
Reprinted 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

Scholarly publications

- Heikens, I., Mulder, P. (2026). *Impact van hoge fossiele brandstofprijzen op de betaalbaarheid van autorijden* [Impact of high fossil fuel prices on the affordability of driving], TNO report, April 2026.
- Fernández-Gómez, K., Mulder, P., den Nijs, S., Teunes, T., Tigchelaar, C. (2026). Isolatie slechtst geïsoleerde woningen drukt gasverbruik én energiearmoede [Insulating the most energy inefficient homes reduces both gas consumption and energy poverty], *ESB*, 111, 174-177
- Hopman, B., P. Mulder (2026). Voor het huishoudboekje is woningisolatie belangrijker dan kosten netverzwaring [For household finances, home insulation is more important than the costs of grid expansion], *ESB* 111, 66-67.
- Schippers, V., E. Mot, N. Phan, C. Tigchelaar, K. Fernández Gómez, P. Mulder, S. van Polen (2025), *Inkomenseffecten van woningverduurzaming* [Income effects of home energy retrofitting], CPB/TNO/PBL Publicatie, Den Haag.
- Batenburg, A., B. Hopman, E. Wijnhuizen, F. Dalla Longa, P. Mulder, L. van der Meer, L. Geitenbeek, M. van Middelkoop (2024). *Energiearmoede in Nederland 2019-2023*. [Energy Poverty in the Netherlands 2019-2023], TNO/CBS report TNO 2024 R10801

- Dalla Longa, F., P. Mulder, R. Sterkenburg (2024). De energietransitie en het risico op vervoersarmoede [The energy transition and the risk at transport poverty]. TNO report 2024 P12018.
- Batenburg, A., F. Dalla Longa, P. Mulder (2023). *Zowel verduurzaming als inkomenssteun nodig om energiekosten te drukken* [Both home insulation and income support are needed to reduce energy costs], *ESB* 31 juli 2023.
- Batenburg, A., F. Dalla Longa, P. Mulder (2023). *De energiekosten van verschillende typen huishoudens in Nederland. Een onderscheid naar inkomen, eigendomssituatie en woningkwaliteit.* [The energy costs of different types of households in the Netherlands - distinction according to income, ownership situation and housing quality.] TNO report 2023 P10493
- Mot, E., P. Mulder, N. Phan, V. Schippers, R. Schulenberg, C. Tigchelaar, A. Zwamborn, E. Griffioen (2023). *Inkomenseffecten van woningisolatie naar de isolatiestandaard* [Income Effects of Home Insulation to the Insulation Standard]. CPB/TNO report.
- Maurik, R., P. Mulder, P. Verstraten (2023). *Gezondheidskosten en energiearmoede. Een empirische analyse voor Nederland* [Health Costs and Energy Poverty. An Empirical Analysis for the Netherlands], TNO report 2023 P10209.
- Mulder, P., A. Batenburg, F. Dalla Longa (2023). *Energiearmoede in Nederland 2022; Een actuele inschatting op nationaal en lokaal niveau.* [Energy Poverty in the Netherlands 2022. An Assessment at National and Local Level], TNO report 2023 P10210
- Mulder, P., H. Verhoef, G. Geuskens, T. van Bree (2022). *Banen in Beeld; Werkgelegenheid gerelateerd aan investeringen in het warmtenet in Rotterdam* [Jobs at Sight; Employment effect of investment in the heat network in Rotterdam], TNO 2022 P12298
- Mulder, P., H. Boonman, R. Sterkenburg (2022). *Klein Aantal Windmolens Veroorzaakt Fors Deel van Woningwaardeverliezen* [Small Share of Wind Turbines Causes Majority of House Price Depreciation], *ESB* 107 (4809), 220-223.
- Mulder, P., H. Boonman, R. Sterkenburg (2022). *De verwachte impact van windturbines op huizenprijzen in Nederland. Een ruimtelijke analyse voor de periode 2020-2030* [The Expected Impact of Wind Turbines Facts on House Prices in the Netherlands. A Spatial Analysis for the period 2020-2030], TNO report 2022 P10374.
- Mulder, P., F. Dalla Longa, K. Straver (2021). *De Feiten over Energiearmoede in Nederland; Inzicht op nationaal en lokaal niveau* [The Facts about Energy Poverty in the Netherlands. Insights at national and local level], TNO report 2021 P11678.
- Mulder, P., G. Geuskens, T. van Bree (2021). *Banen in Beeld; Werkgelegenheid gerelateerd aan investeringen in de energietransitie in Rotterdam* [Jobs at Sight; Employment effect of investment in the energy transition in Rotterdam], TNO report 2021 P11614
- Straver, K., L. Middlemiss, M. Hesselman, M. Feenstra, P. Mulder, S. Tirado Herrero (2020). *Energy Poverty and the Energy Transition*, TNO White Paper.
- 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?, *ESB* 88, no.4407, 295-297
- Mulder, P., H.L.F. de Groot (2002). Leren Vereist Investeren, *ESB*, 85, no.4284, 980-982.
- De Groot, H.L.F., P. Mulder (2000). Leren, Weten en Vergeten, *ESB* 85, no.4270, 687.

Other publications

- Mulder, P. (2025). Goedkope energie bestaat niet. Telegraaf 08-10-2025, Opinion. [Cheap energy does not exist.]
- Mulder, P. and K. Straver (2023). Energiearmoede is een governance-vraagstuk. Essay in Energiea/Financieel Dagblad. 2 februari 2023.
- Mulder, P. and K. Straver (2021). Woningaanpak cruciaal tegen energiearmoede. Telegraaf 05-10-2021, Opinion. [On home renovation as remedy against energy poverty]
- Mulder, P., F. Dalla Longa and K. Straver (2021). Hogere gasprijzen leiden tot energiearmoede bij duizenden extra huishoudens, ESB, 21-05-2021, Blog. [On the impact of the gas price hike on energy poverty].
- 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, Opinion. [On the housing market 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), Book review D. Acemoglu en J. Robinson - Waarom sommige landen rijk zijn en andere arm, *Nederlands Dagblad* 22-03-2013
- Mulder, P. (2012), Book review T. Sedlacek - De economie van goed en kwaad, *ND* 23-10-2012
- Mulder, P. (2011), Book review D. Saunders - De trek naar de stad, *ND* maart 2011
- Mulder, P. (2010), Leve de markt, maar wel in de economie. *ND* 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, *Volkskrant* 03-10-2009, Opinie. [On the purchase of a villa in Mozambique by the Dutch Crown Prince.]
- Mulder, P. (2008), Samaritanendom, *Radix* 34, 146-176. [On (dis)benefits of development aid]
- Mulder, P. (2002), Globalisering, of hoe meer mensen meer met elkaar te maken hebben, *Radix* 28, 159-168.

PhD students

Advisor - current:

- * Yashvant Premchand; Economic Geography of Climate Adaptation, Land Subsidence and Subsurface Competition (VU; start January 2024)
- * Matilda Tsekpokumah; Economics of Greening the Housing Stock (UU; start July 2023)
- * Daniele Gasparini; Employment Effects of the Energy Transition (UM; start January 2023)

Advisor - completed:

- * Isfandiarni S. Rosidin; Inequality, Regional Economic Development and Access to Public Services in Decentralizing Indonesia (VU; 26/10/2021)
- * Gilberto Mahumane; Promises and Perils of Energy Transitions in Mozambique (VU; 13/01/2021)
- * Sotya Fevreira; Environmental Challenges of Economic Development in Indonesia (VU; 15/09/2020)
- * Jessie Bakens; Economic Impacts of Immigrants and Ethnic Diversity on Cities (VU; 09/09/2016)

Promotion Committee:

- * Merijn Wijma; A Great Multitude One Can Count: A Statistical Study on the Spatio-Temporal Development of the Reformed Denominations in the Netherlands Between 1892 and 2015 (2022, TUK, Kampen)
- * Elizabeth Dobis; The Evolution of the American Urban System: History, Hierarchy and Contagion (2017, Purdue University, USA)
- * Haroon Sheikh; Embedding Technopolis (2012, VU Amsterdam)

Referee academic journals

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

Teaching

Qualifications:

2018	Senior Teaching Qualification (SKO)
2008	University Teaching Qualification (BKO)

Courses:

2026 –	Policies for Energy & Material Transitions	UU Sustainable Development Science
2023 –	Energy Markets	UU Energy Science
2018 – 2019	Governance for Society: Inequality & Political Populism in Europe	VU, BSc Philosophy, Politics & Economics (PPE)
2017 – 2020	Urban Economics & Regional Policy	Universitas Indonesia / Faculteit Economie, Jakarta
2016 – 2019	The City	UvA, BSc Beta-Gamma Institute for Interdisciplinary Studies (IIS)
2016 – 2019	Economic Ethics	VU, BSc Economics
2016 – 2019	Micro-economics II	VU, BSc Earth & Economics
2013 – 2019	Research Seminar Spatial Economics	VU, BSc Earth & Economics
2011 – 2019	Urban Economics	VU, BSc Economics
2011 – 2019	Micro-economics I	VU, BSc Earth & Economics
2007 – 2019	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

Management:

2013 – 2020	Coordinator of the minor Spatial Economics, VU Amsterdam
2008 – 2017	Member and Chair Educational Committee, Earth & Economics program, VU Amsterdam
2013 – 2016	Member Board of Examiners, University College Amsterdam

Contributions to International Conferences

- 2026 – International Sustainability Transitions Conference, *forthcoming*
2026 – Energy Economics (IAEE) European Conference, *forthcoming*
2026 – GeoInnovation, Budapest, Hungary
2025 – Energy Evaluation Conference, Berlin, Germany
2025 – European Association of Environmental and Resource Economists, Bergen, Norway
2024 – International Energy Workshop, Bonn, Germany
2024 – GeoInnovation, Manchester, UK
2023 – International Energy Workshop, Colorado, USA
2022 – Elsevier Conference on Energy Research and Social Science, Manchester, UK
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

Grants

Awarded

- 2021 TNO
 Socio-economic Impact of Green Transitions
2019 TNO
 Energy Transition Ideation Challenge
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 months)

Rejected

- 2016 NWO-ORA:
Energy use and the spatial structure of the economic system in developing countries.
- 2015 ERC Consolidator Grant 2015 (final round)
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.

Policy Advice / Consultancy

- 2020 –
- Ministries of Economic Affairs and Climate / Social Affairs / Internal Affairs / Finance/ Infrastructure; European Commission; International Energy Agency; Dutch Parliament; Provincial and Municipal Governments; Court of Audit (Algemene Rekenkamer). On Energy Poverty, Transport Poverty, Energy Costs Risks, Income Effects of Home Insulation, Housing Price Effects Windmills; Energy Transition Groningen
- 2009 – 2012
- Training LEAP Energy Planning System, Ministry of Energy 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 through 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)
 - *Impact of the Oil Price Increase on the Mozambican Economy* (in Portuguese)
DNEAP Discussion Papers No.19P. (with C. Arndt, L. Matsinhe, E. Paulo and J.E. Van Dunem)
- 2000 *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)

Volunteering

- 2025 – Board of the Homeowners' Association (Vereniging van Eigenaren) Blok 4 Bloemenbuurt, A'dam.
- 2025 – Board of 'Stichting Vrienden van de Elthetokerk', Amsterdam Oost
- 2019 – 2023 Co-founder and chairman of the board of 'Hart voor Noord' (since 2019), a non-profit organization that supports people in Amsterdam Noord to rise out of poverty and loneliness - by listening, helping and building together resilient communities (www.hartvoornoord.nl).
- 2010 – 2017 Volunteer at community center room Bloemenbuurt, Amsterdam Noord.
- 2005 – 2013 Co-founder and chairman of the board of 'Present Amsterdam' (2005, 2008-2013) and co-founder of 'Burennetwerk' (2012). Both are charitable organizations in Amsterdam that connect people who want to help with people who could use some extra help.