

Michiel van Dijk

Curriculum Vitae
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Summary

Michiel van Dijk is a development economist, with interest in the topics of macro and micro-level policy evaluation, land use change, food security and nutrition, integrated assessments, scenario development and modelling, technical change and innovation, and farm and household-level analysis. He has been a (lead) researcher in projects funded by CIMMYT, DFID, USAID, GEF, World Bank and the EU. His skills include computable general equilibrium modelling, micro-econometrics, GIS and (big) data management. He has extensive working experience in Africa, Asia and Latin America.

Employment history

2020– Senior researcher (0.8 fte), Wageningen Economic Research, the Netherlands
2016–2020 Research scholar (0.8 fte), International Institute for Applied Systems Analysis (IIASA)
2016–2020 Senior researcher (0.2 fte), Wageningen Economic Research, the Netherlands
2014–2015 Senior researcher, Wageningen Economic Research, the Netherlands
2011–2013 Researcher, International Policy Division, LEI-Wageningen UR, the Netherlands
2008–2010 West Africa Advocacy Officer, Oxfam Novib, the Netherlands
2006–2008 Researcher, Centre for Research on Multinational Corporations (SOMO), the Netherlands
2004–2005 Assistant professor, Faculty of Technology Management, Eindhoven University of Technology, the Netherlands

Education and qualifications

1999–2004 Ph.D. Faculty of Technology Management, Eindhoven University of Technology, the Netherlands
1999– Erasmus exchange programme, Faculty of Economics, Universidad de Zaragoza, Spain
1993–1999 M.Sc. in Quantitative Economics, Faculty of Economics, Maastricht University, the Netherlands
1995–1996 Propedeuse in Econometrics, Faculty of Economics, Maastricht University, the Netherlands

International working experience

2011– Research projects in Ethiopia, Ghana, Malaysia, Vietnam, Zambia, Zimbabwe
2008–2010 Cooperation with local NGOs in Nigeria, Mali, Burkina Faso, Ghana and Senegal
2005–2006 Assistant loan officer (voluntary) A.C. Portachuelo, Maracay, Venezuela
2003–2004 EU Marie Curie Ph.D., Science Policy Research Unit (SPRU), University of Sussex, UK
2003 Visiting researcher – Statistics Finland, Finland
2001 Visiting researcher – Centre for Strategic and International Studies (CSIS), Indonesia

Journal referee

Journal of African Economies, Journal of Evolutionary Economics, Journal of Engineering and Technology Management, Land, Agricultural Systems, Global Food Security, Agronomy for Sustainable Development, European Journal of Development Research.

ICT skills

R, GEMPACK, GAMS, C++, SPSS, STATA, E-views, ArcGIS, Microsoft Office.

Languages

Dutch: Native, English: Fluent, German: Good, Spanish: Good, French: intermediate, Bahasa Indonesia: Working knowledge.

Publications

PhD thesis

1. Van Dijk, M (2005). "Industry evolution and catching up in developing countries: the case of the Indonesian pulp and paper industry". PhD thesis. Eindhoven University of Technology.

Refereed research papers

1. Meijl, H van, L Shutes, H Valin, E Stehfest, M van Dijk, M Kuiper, A Tabeau, WJ van Zeist, T Hasegawa, and P Havlik (June 2020). Modelling alternative futures of global food security: Insights from FOODSECURE. *Global Food Security* **25**, 100358.
2. Van Dijk, M, M Gramberger, D Laborde, M Mandryk, L Shutes, E Stehfest, H Valin, and K Faradsch (Mar. 2020). Stakeholder-designed scenarios for global food security assessments. *Global Food Security* **24**, 100352.
3. Van Dijk, M, T Morley, MK Van Ittersum, M van Loon, P Reidsma, and K Tesfaye (2020). Closing the maize yield gap in Ethiopia: Analysis and policy simulation. *Agricultural Systems*.
4. Loon, M van, P Reidsma, C Akotsen-Mensah, M Van Dijk, S Adjei-Nsiah, T Morley, MK Van Ittersum, and K Descheemaeker (2019). Can yield variability be explained? Integrated assessment of maize yield gaps across smallholders in Ghana. *Field Crops Research* **236**, 132–144.
5. Johnson, N et al. (Oct. 2019). Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge? *Water* **11**(11), 2223.
6. Frank, S, P Havlík, E Stehfest, H van Meijl, P Witzke, I Pérez-Domínguez, M Van Dijk, JC Doelman, T Fellmann, JFL Koopman, A Tabeau, and H Valin (Jan. 2019). Agricultural non-CO2 emission reduction potential in the context of the 1.5 C target. *Nature Climate Change* **9**(1), 66–72.
7. Wada, Y et al. (Oct. 2019). Co-designing Indus Water-Energy-Land Futures. *One Earth* **1**(2), 185–194.
8. Meijl, H van, P Havlik, H Lotze-Campen, E Stehfest, P Witzke, IP Domínguez, BL Bodirsky, M Van Dijk, J Doelman, T Fellmann, F Humpenöder, JFL Koopman, C Müller, A Popp, A Tabeau, H Valin, and WJ van Zeist (June 2018). Comparing impacts of climate change and mitigation on global agriculture by 2050. *Environmental Research Letters* **13**(6), 064021.
9. Van Dijk, M, T Morley, R Jongeneel, M van Ittersum, P Reidsma, and R Ruben (June 2017). Disentangling agronomic and economic yield gaps: An integrated framework and application. *Agricultural Systems* **154**, 90–99.
10. Smeets Kristkova, Z, C Gardebroek, M Van Dijk, and H van Meijl (July 2017). The impact of R&D on factor-augmenting technical change – an empirical assessment at the sector level. *Economic Systems Research* **29**(3), 385–417.
11. Smeets Kristkova, Z, M Van Dijk, H Van Meijl, ZS Kristkova, VD M, and VM H (2016). Projections of long-term food security with R&D driven technical change—A CGE analysis. *NJAS - Wageningen Journal of Life Sciences* **77**(Supplement C), 39–51.
12. Rutten, M, M Van Dijk, W Van Rooij, and H Hilderink (2014). Land use dynamics, climate change, and food security in Vietnam: A global-to-local modeling approach. *World Development* **59**, 29–46.
13. Van Dijk, M and GW Meijerink (2014). A review of global food security scenario and assessment studies: Results, gaps and research priorities. *Global Food Security* **3**(3-4), 227–238.
14. Van Dijk, M and A Szirmai (2011). The Micro-Dynamics Of Catch-Up In Indonesian Paper Manufacturing. *Review of Income and Wealth* **57**(1), 61–83.
15. Weyzig, F and M Van Dijk (2009). Incoherence between Tax and Development Policies: the case of the Netherlands. *Third World Quarterly* **30**(7), 1259–1277.
16. Van Dijk, M and M Bell (2007). Rapid growth with limited learning: Industrial policy and indonesia's pulp and paper industry. *Oxford Development Studies* **35**(2), 149–169.
17. Van Dijk, M and A Szirmai (2006). Industrial Policy and Technology Diffusion: Evidence from Paper Making Machinery in Indonesia. *World Development* **34**(12), 2137–2152.
18. Van Dijk, M and A Szirmai (2006). Technical efficiency and embodied technical change in the Indonesian pulp and paper industry. *Journal of International Development* **18**(2), 163–178.
19. Van Dijk, M (July 2003). South African manufacturing performance in international perspective 1970-1999. *South African Journal of Economics* **71**(1), 119–142.

Book chapters

1. Van Dijk, M, Y Saghai, T Morley, and ML Rau (2020). "Global food demand projections: A review". In: *Choose Food: An Ethical Basis for Food Production*. Ed. by A Goldberg. Baltimore: John Hopkins University Press. Chap. 10.
2. See, L, S Fritz, I Moorthy, O Danylo, M Van Dijk, and B Ryan (2018). "Using Remote Sensing and Geospatial Information for Sustainable Development". In: *From summits to solutions: Innovations in Implementing the Sustainable*

Development Goals. Ed. by RM Desai, H Kato, H Kharas, and JW McArthur. Washington, D.C.: Brookings Institution Press. Chap. 8, pp.172–198.

3. Van Dijk, M, J Kroezen, and B Slob (2017). “From Pilsner Desert to Specialty Beer Oasis: The Rise of Microbrewing in the Netherlands”. In: *The Craft Beer Revolution: A Global Economic Perspective*. Ed. by J Swinnen and C Garavaglia. Palgrave.
4. Smeets Kristkova, Z, M Van Dijk, and H van Meijl (2017). “Impact of agricultural R&D investments on long-term food security– an ex-ante impact assessment”. In: *Frontiers of Economics and Globalization*. Ed. by A Schmitz.
5. Van Dijk, M, EJ Moors, and T Singh (2014). “Engaging stakeholders in developing food security scenarios”. In: *The Food Puzzle: Pathways to Securing Food for All*. Ed. by T Achterbosch. Wageningen: Wageningen University, pp.40–42.

Work in progress and working papers under revision or review

1. Van Dijk, M, T Morley, ML Rau, and Y Saghai (2020). “Global food security projections: A systematic literature review”.
2. Van Dijk, M, U Wood-Sichra, Y Ru, A Palazzo, P Havlik, and L You (2020). “Mapping the change in crop distribution over time using a data fusion approach”.
3. Van Dijk, M, KO Fuglie, and PW Heisey (2018). “A new database of public global agricultural R&D”.
4. Van Dijk, M, Z Smeets Kristkova, and N Gerber (2018). “A global index of Agricultural Innovation: Construction, ranking and application”.