

Curriculum Vitae

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Personal details

Name: K. (Kimo) C. van Dijk MSc.

Nationality: Dutch

Date & place of birth: 06 July 1985, Amsterdam

Position: PhD student Nutrient management & phosphorus security

Institute: Wageningen University, Environmental Science Group, department Soil Quality

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Personal page: <http://www.wageningenur.nl/en/Persons/KC-Kimo-van-Dijk-MSc.htm>

Personal website: kimovandijk.weebly.com

Linkedin: nl.linkedin.com/in/kimovandijk

Summary

Kimo van Dijk is doing his PhD research on nutrient management and phosphorus security at Wageningen University. He analyses the present P flows in Europe (EU-27) at the country level, develops dynamic nutrient flow models, and simulates potential future P use by scenario analyses. Additionally, he supervises MSc students studying the P flows and future nutrient management options at the local level in cities (Rotterdam and Wageningen). In the past he did scientific studies for the Dutch government about the options for sustainable P use in the Dutch, West-European and European society. Besides his scientific work he also actively participates in the Dutch Nutrient Platform and the European Sustainable Phosphorus Platform, and other networks. His academic background encompasses Biology (BSc.) and Biological Sciences (MSc.) both at the University of Amsterdam, including the study of ecology, evolution, biodiversity, adaptation, biological pest control, and plant-animal-human interactions. His thesis was about the global dietary protein balance and options for enhancement under supervision of prof. Louise O. Fresco.

Academic positions

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|----------------|--|
| 2012 - present | PhD student, Wageningen University, department Soil Quality, Wageningen, Netherlands |
| 2011 - 2012 | Researcher Nutrient Management and Phosphorus Security, Wageningen UR, Environmental Science Group, department Soil Quality, Wageningen, Netherlands |
| 2010 - 2011 | Guest researcher, Alterra Wageningen UR, Environmental Science Group, Wageningen, Netherlands |
| 2009 - 2010 | Delegation member Visitation Commission Biological Sciences at Quality Assurance Netherlands Universities (QANU), Utrecht, Netherlands |

Education

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|-------------|--|
| 2007 - 2010 | MSc. Biological Sciences track Ecology & Evolution, University of Amsterdam, Netherlands; research projects on below ground indirect defence, and ecological and |
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	reproductive aspects of self-incompatibility in plants, MSc. thesis about the global sustainable production and consumption of dietary proteins.
2003 - 2006	BSc. Biology, specialisation Ecology, University of Amsterdam, Netherlands
1997 - 2003	VWO (University preparatory education), double course cluster Science and technology + Science and Health, Montessori Lyceum Amsterdam, Netherlands

Scientific publications

Own peer-reviewed journal articles

Van Dijk, K. C., Lesschen, Jan Peter and O. Oenema (Submitted). "Phosphorus flows and balances of the European Union Member States."

Van Dijk, K. C., Lesschen, J. P., P. A. I. Ehlert and O. Oenema (In preparation). "Potential future P use in the EU-27: food system scenario analyses."

Van Dijk, K. C., Lesschen, J. P., P. A. I. Ehlert and O. Oenema (In preparation). "Modelling crop yield responses to drastic decreases in phosphorus fertilization in EU-27."

Co-authored peer-reviewed journal articles

Withers, P. J. A., J. J. Elser, J. Hilton, H. Ohtake, W. Schipper and K. C. van Dijk (Submitted). "Greening the global phosphorus cycle: How green chemistry can help achieve planetary P sustainability."

Withers, P. J. A., K. C. van Dijk, T.-S. S. Neset, T. Nesme, O. Oenema, G. H. Rubæk, O. F. Schoumans, A. L. Smit and S. Pellerin (Accepted). "Stewardship to tackle global phosphorus inefficiency: the case of Europe."

Schoumans, O. F., F. Bouraoui, C. Kabbe, O. Oenema and K. C. van Dijk (Accepted). "Phosphorus management in Europe in a changing world." AMBIO.

Popular journal articles

[Van Dijk, K. C., and Oenema, O. \(2012\). "Transitie naar duurzaam gebruik van fosfor." Milieu : opinieblad van de Vereniging van Milieuprofessionals, 18\(2\), 48-52.](#)

Book chapters

[Yoshida, H., van Dijk, K. C., Drizo, A., and van Ginkel, S. W. \(2013\). "Phosphorus Recovery and Reuse" in K. A. Wyant, J. R. Corman, and J. J. Elser, \(eds.\), Phosphorus, Food, and Our Future. Oxford, United Kingdom: Oxford University Press.](#)

Reports

[Lesschen, J. P., van der Kolk, J. W. H., van Dijk, K. C., and Willems, J. \(2013\). Options for closing the phosphorus cycle in agriculture; Assessment of options for Northwest Europe and the Netherlands. Alterra Wageningen UR. Statutory Research Tasks Unit for Nature and the Environment, Wageningen, The Netherlands.](#)

Van Dijk, K. C., Sanders, J. P. M., Groot Koerkamp, P. W. G., Smit, A. L., Ehlert, P. A. I., Schoumans, O. F., Zeeman, G., and Oenema, O. (2012). Transitie fosfaat - Beleidssamenvatting. Verkenning van de opties voor een transitie naar duurzaam gebruik van fosfor: systeem studies in Nederland en de Europese Unie. Alterra part of Wageningen UR, Wageningen.

Van Dijk, K. C., Sanders, J. P. M., Groot Koerkamp, P. W. G., Smit, A. L., Ehlert, P. A. I., Schoumans, O. F., Zeeman, G., and Oenema, O. (2011). Exploring options for a transition towards sustainable use of phosphorus: Food chain studies for the Netherlands and EU. Alterra part of Wageningen UR, Wageningen.

Conference proceedings

[Oenema, O., W. Chardon, P. Ehlert, K. C. van Dijk, O. Schoumans and W. Rulkens \(2013\). Phosphorus fertilisers from by-products and wastes. Leek, United Kingdom, International Fertiliser Society. Proceedings 717.](#)

Supervised master degree (MSc.) theses

[Alison Jenkins, MSc. thesis "Can waste equal food? Exploring the urban opportunities and limitations in advancing a closed loop practice of phosphorus; the case of Wageningen, the Netherlands", Wageningen University, Netherlands](#)

[Timo Eckhart, MSc. thesis "The Binding Potential of P: An Analysis of the Governance Network for Phosphorus Recycling and Reuse in Wageningen, the Netherlands", Wageningen University, Netherlands](#)

[Kerli Kirsimaa, MSc. thesis "Urban farming in Rotterdam: an opportunity for sustainable phosphorus management? An approach for linking urban household waste management with urban farming", Wageningen University, Netherlands](#)

Presentations

- 2015 [Van Dijk, Oenema, Lesschen, "Phosphorus fluxes and balances in Europe", Symposium "Phosphorus in agriculture: where are we going?", ETH Zurich, Switzerland, 15 January 2015](#)
- 2014 [Van Dijk, "European phosphorus balance: uses and losses in agriculture & other sectors", P-REX Summer School, Basel, Switzerland, 10 September 2014](#)
- 2014 [Van Dijk, Oenema, Lesschen, "Present and future phosphorus use in Europe: food system scenario analyses", Sustainable Phosphorus Summit 2014, Montpellier, France, 1 September 2014](#)
- 2014 Van Dijk, "Nutrient management & phosphorus security in business", Planetary boundaries workshop, World Business Council for Sustainable Development, Rotterdam, 2 July 2014
- 2014 Van Dijk, "The phosphorus challenge and business opportunities", Mineral Recycling workshop, Dutch Foundation for Public Private Partnership (ISPT), Amersfoort, 13 May 2014
- 2014 [Van Dijk, "Overview of phosphorus flows in wastes in Europe", P Recycling Workshop Closing the loop, Fertilizers Europe, Brussels, 6 Februari 2014](#)
- 2013 [Schoumans, Van Dijk, Oenema, Bouraoui, Kabbe, "Phosphorus management in a changing world", 7th International Phosphorus Workshop \(IPW7\), Uppsala, 11 – 16 September 2013](#)
- 2013 Van Dijk, "Phosphorus flows in the food chain in Europe", Nutrient Management Workshop, China Agricultural University, Beijing, 18 June 2013
- 2013 Van Dijk, Schoumans, Oenema, Chardon, Schröder, Sanders, Meesters, Verdoes, "Sustainable phosphorus use in the Netherlands", Deep Dive Phosphorus of the Flemish Nutrient Platform, Leuven, 14 March 2013
- 2013 [Van Dijk, Kabbe, Pellerin, Rechberger & Oenema, "Phosphorus use in Europe", 1st European Sustainable Phosphorus Conference, Brussels, 6 March 2013](#)
- 2013 [Van Dijk, "Phosphorus scenario analyses in the EU-27 food system - Present and future P flows and dynamics", 2nd Scientific European Phosphorus Workshop, Wageningen, 6 February 2013](#)

Events organized

- [2nd Scientific European Phosphorus Workshop, Wageningen, 6-7 February 2013](#)

Supervision

- 2013 - 2014 [Alison Jenkins, MSc. thesis "Can waste equal food? Exploring the urban opportunities and limitations in advancing a closed loop practice of phosphorus; the case of Wageningen, the Netherlands", Wageningen University, Netherlands](#)
- 2013 - 2014 [Timo Eckhart, MSc. thesis "The Binding Potential of P: An Analysis of the Governance Network for Phosphorus Recycling and Reuse in Wageningen, the Netherlands", Wageningen University, Netherlands](#)
- 2013 [Kerli Kirsimaa, MSc. thesis "Urban farming in Rotterdam: an opportunity for sustainable phosphorus management? An approach for linking urban household waste management with urban farming", Wageningen University, Netherlands](#)

Teaching experience

- 2014 - 2015 Lecture "Present and future phosphorus use in Europe", course "Project Sustainable Future" (X_432784), Free University Amsterdam, Netherlands
- 2012 - 2015 Lecture "Resource scarcity, nutrient security and sustainable phosphorus use", course "Energy, Water and Waste Cycles in Built Environment" (ETE34306), Wageningen University, Netherlands
- 2014 Lecture "Present phosphorus use in Europe and potential future scenarios", course "Linking earth to health" (SOQ-51806), Wageningen University, Netherlands

Workshops participated

- 2014 [P-REX Summer School, Basel, Switzerland, 10-11 September 2014](#)
- 2014 [Young Scientist Workshop, Phosphorus Week, Montpellier, France, 30 August 2014](#)
- 2014 Planetary boundaries workshop, World Business Council for Sustainable Development, Rotterdam, 2 July 2014
- 2014 Mineral Recycling workshop, Dutch Foundation for Public Private Partnership (ISPT), Amersfoort, 13 May 2014
- 2014 P Recycling Workshop Closing the loop, Fertilizers Europe, Brussels, 6 February 2014
- 2013 [2nd Scientific European Phosphorus Workshop, Wageningen, 6 - 7 February 2013](#)
- 2013 [Nutrient Management Workshop, China Agricultural University, Beijing, 18 June 2013](#)
- 2011 Workshop Micronutriënten in de landbouw, Platform Landbouw Innovatie & Samenleving, Den Haag, 22 november 2011
- 2011 [European scientific workshop on Designing phosphorus cycle at country scale, Bordeaux, 5 - 6 July 2011](#)
- 2010 International workshop of the Global Phosphorus Research Initiative (GPRI): "Phosphorus and Global Food Security", Linköping, 25 - 26 February 2010

Conferences visited

2015	<u>Symposium "Phosphorus in agriculture: where are we going?", ETH Zurich, Switzerland, 15 January 2015</u>
2014	<u>Sustainable Phosphorus Summit 2014, Montpellier, France, 1-3 September 2014</u>
2014	<u>5th International Symposium Phosphorus in Soils and Plants, Montpellier, France, 26-29 August 2014</u>
2013	<u>Global TraPs First World Conference "Learning from Cases – Exploring Policy Options", Beijing, 18 - 20 June 2013</u>
2013	<u>1st European Sustainable Phosphorus Conference, Brussels, 6 - 7 March 2013</u>
2011	<u>2nd Sustainable Phosphorus Summit "Phosphorus, food and our future", Phoenix, 3 - 5 February 2011</u>

Extra curriculum activities

2008 - present	Member at Young Club of Rome Netherlands
2013	Expert jury member What To Do With Poo challenge (WTDWP) at ENVIU, Rotterdam, Netherlands
2012	Team captain team "Made in Holland" for Healthy Food chains in the Battle of the Cheetahs organized by the Dutch Centre for Global Citizenship (NCDO), Amsterdam, Netherlands
2010	Participant and co-author of Our Common Future 2.0, Roadmaps for Our common Future Society, Netherlands
2010	Coordinator at Youth Formation Coalition for a sustainable future
2003 - 2009	Chairman at Young Friends of the Earth Netherlands (JMA), Amsterdam, Netherlands
2006 - 2007	Board member Sustainability at DWARS (Dutch Political Young Green Party), Utrecht, Netherlands

Skills and competences

Computer skills

Microsoft Word, Excel, Powerpoint, Outlook
Endnote
GAMS modelling software (www.gams.com)
Gtree user interface for GAMS (www3.lei.wur.nl/gamstools)
Metabase database software (www3.lei.wur.nl/gamstools)
R statistical software (www.r-project.org)
STAN MFA/SFA software package (www.stan2web.net)
Adobe Photoshop
Arc-GIS
SPSS
Also familiar to work with Apple hardware and software

Languages

Dutch: native
English: advanced
German: elementary
French: elementary