

Personal information

Family name, First name: Goeminne, Gert
Nationality: Belgian
Date of birth: 05.10.1974
URL for web site: <https://www.cdo.ugent.be/team/goeminne>

Education

2001 PhD – Physics
Faculty of Sciences, Dept. of Physics and Astronomy, Ghent University, Belgium
1997 Master – Physics
Faculty of Sciences, Dept. of Physics and Astronomy, Ghent University, Belgium

Current position

2016 - ... Senior researcher (10%), Centre for Sustainable Development, Dept. of Political Sciences, Ghent University, Belgium

Previous positions

2014 - 2016 Senior researcher, Centre for Sustainable Development, Dept. of Political Sciences, Ghent University, Belgium
2007 - 2014 Postdoctoral researcher of the Research Foundation - Flanders (co-hosted by the Centre Leo Apostel at Vrije Universiteit Brussel and the Centre for Sustainable Development at Ghent University)
2010 Visiting scholar at the Science Studies Unit of Roskilde University, Denmark
2008 Visiting scholar at the Technoscience Research Group of Stony Brook University of New York, United States
2002 - 2007 Senior researcher, Centre for Sustainable Development, Dept. of Political Sciences, Ghent University, Belgium
2001 - 2002 Senior researcher, Dept. of Physics and Astronomy, Ghent University, Belgium
1997 - 2001 Doctoral research fellow, Dept. of Physics and Astronomy, Ghent University, Belgium

Fellowships and awards

2007 - 2014 Postdoctoral fellowship in Social Sciences of the Research Foundation - Flanders
1997 - 2002 Several travel grants of the Research Foundation – Flanders for research stays at CERN (Geneva) and ILL (Grenoble, France)

Research experience

I got acquainted to scientific research through a four-year PhD fellowship in nuclear physics at the Dept of Physics and Astronomy of Ghent University. Here I was trained mainly in the design, development, and interpretation of advanced scientific experiments, including at renowned nuclear research institutes such as CERN (Geneva) and ILL (Grenoble). This highly specialised, basic research led to a series of publications in high-ranking physics journals, as well as extensive experience in drawing up research reports and presenting results at international symposia. At the same time, this intensive immersion in so-called 'fundamental' research led to an increasing questioning of the 'foundations' of the scientific attitude and, more specifically, the relationship between science, technology, and society.

After obtaining my PhD in Physics, I started working at the Centre for Sustainable Development of Ghent University in 2002, where I collaborated in several short-term policy-relevant research projects on environmental and sustainability issues (e.g., contributions to Flanders Environment Report, policy-preparatory research on the concept of 'ecological debt', organisation of a UNFCCC workshop on technology transfer, participatory development of sustainable consumption scenarios...). As such, I gained ample experience in transdisciplinary research in collaboration with stakeholders. In working at the science-policy interface, my fascination for the political nature of science and technology became increasingly acute, and the ambition grew to put this at the centre of my research.

In 2007, I obtained a prestigious postdoctoral fellowship in the social sciences of the Research foundation - Flanders (FWO) based on a research project about the mutual embedding of science and politics in the context of the climate issue. Since then, I increasingly see myself as an interdisciplinary researcher who

consciously operates at the interface between fundamental research on the one hand and a normative engagement with a more sustainable society on the other. Over the years, I have thus elaborated on the political nature of science and technology in various research domains such as climate policy, sustainability transitions, inter- and transdisciplinarity, and more recently responsible research and innovation. At times, my research is highly theoretical, leading for instance to a single-author in-depth conceptual publication, at other times I engage in hands-on transdisciplinary inquiries with actors who are, in one way or another, affected by the issue in question. This is reflected in a considerable number of high-level publications and conference contributions, mainly in the interwoven fields of philosophy of science and technology and science and technology studies, as well as vulgarizing reports and participation in working groups and consultative bodies. I also supervise graduate and doctoral students and do review work for academic journals (e.g., *Philosophy & Technology*, *Global Environmental Politics*...) and funding bodies (e.g., ERC Starting Grant). As an engaged researcher with a passion for creative writing, I make it my priority to regularly contribute an op-ed piece to a leading Belgian newspaper.

Career breaks

In 2016, triggered by increasingly profound questions about life and work, I temporarily halted my activities as a researcher (except for an ongoing 10% appointment, fulfilling a consultant role within the Centre for Sustainable Development, Ghent University) and took a part-time job as a project manager in the construction sector to focus on my passion for writing. I undertook a degree in creative writing (2018, SchrijversAcademie, Antwerp, Belgium), wrote two novels and am working on a third. Gradually, however, my scientific heart began to beat again, purer this time, stripped as it was of the burden of unhealthy ambition, and I am now more determined than ever to devote myself fully to academic research.

Supervision of graduate students and doctoral fellows

2021 - 2022 2 master students / 1 PhD fellow (Ghent University)
2007 - 2021 several master students and PhD fellows (Ghent University and Vrije Universiteit Brussel)

Organisation of workshops and symposia

2021 - ... Co-organiser (with Thomas Block and others) of master thesis ateliers at StadsAcademie (Ghent University)
2014 Co-organiser (with Yoni Van Den Eede and Marc Van den Bossche) Symposium 'The art of living with ICT', Brussels, Belgium
2012 Co-organiser (with Thomas Block and Erik Paredis) Studium Generale Duurzaamheidsdenken, Ghent, Belgium
2011 Co-organiser (with Thomas Block) Seminar 'Over normativiteit, onzekerheid en complexiteit. Reflecties bij duurzaamheidsonderzoek in Vlaanderen), Ghent, Belgium
2010 Co-organiser (with Soren Riis) 'Autum lecture series in Science and Technology Studies', Roskilde, Denmark.
2009 Organiser international symposium 'Opening up the in-between: interdisciplinary reflections on science, technology and social change', Ghent, Belgium
2003 Co-organiser (with Bernard Mazijn) UNFCCC-workshop on enabling environments for technology transfer.

Institutional responsibilities

2021 - Member of working group on transdisciplinarity, StadsAcademie, Ghent University
2018 - Member of working group Transitie UGent, Ghent University

Commissions of trust

2022 Peer review evaluation, European Research Council (ERC), Starting Grant.
2008 - ... Reviews for scientific journals: *Philosophy & Technology*, *Global Environmental Politics*, *Futures*, *Digital Society*, *Environmental Education Research*, *Sustainability*, *Foundations of Science*, ...

Memberships of scientific societies

2014 - ... Member of the Belgian STS Network
2008 - ... Member of the Postphenomenology Network (Prof. Don Ihde)
2007 - Alumni member of the Center Leo Apostel for Transdisciplinary Research (VUB)

International peer-reviewed publications

- Block, T., Goeminne G. and Van Poeck, K. (2018) Balancing the urgency and wickedness of sustainability challenges: three maxims for post-normal education. *Environmental Education Research* 24(9): 1424-1439
- Inghelbrecht, L., Goeminne, G., Van Huylenbroeck, G. and Dessenin, J. (2017) When technology is more than instrumental: how ethical concerns in EU agriculture co-evolve with the development of GM crops. *Agriculture and Human Values* 34(3): 543-557
- Y. Van Den Eede, G. Goeminne and M. Van den Bossche (Eds.). (2017) The art of living with technology. A special issue of *Foundations of Science* 22(2-3).
- Y. Van Den Eede, G. Goeminne, M. Van den Bossche. (2017) The art of living with technology: turning over philosophy of technology's empirical turn. *Foundations of Science* 22(2): 235-246
- Van Poeck, K., Vandenebee, J. and Goeminne, G. (2017) 'Making climate change public? A dramaturgically inspired case-study of learning through transition management'. *International Journal of Global Warming* 12(3/4): 366-385
- K. Van Poeck, G. Goeminne and J. Vandenebee. (2016) Revisiting the democratic paradox of environmental and sustainability education: sustainability issues as matters of concern. *Environmental Education Research* 22(6): 806-826
- G. Goeminne (2014). Experimentation in technological wisdom: can the political be kept off the practice ground? *Philosophy & Technology* 27: 581-587
- G. Goeminne (Editor). (2014). Book Symposium on Homo Sapiens Technologicus: Philosophie de la Technologie Contemporaine, Philosophie de la Sagesse Contemporaine by Michel Puech. *Philosophy & Technology* 27: 581-608
- G. Goeminne (2013). Science, technology and the political: the (im-)possibility of democratic rationalization. *Techné: Research in Philosophy and Technology* 17(1): 93-113
- G. Goeminne (2013). Does the climate need consensus? The politics of climate change revisited. *Symploke* 20 (1-2): 151-165
- G. Goeminne (2013). Who is Afraid of the Political? *Foundations of Science* 18(2): 355-360
- T. Block, J. Van Assche and G. Goeminne. (2013). Unravelling urban sustainability. How the Flemish city monitor acknowledges complexities. *Ecological Informatics* 17: 104-110
- G. Goeminne (2012). Lost in translation. Climate denial and the return of the political. *Global Environmental Politics* 12 (2) 1-8
- G. Goeminne (2012). The Matter of Climate Change: What it is and How to Be Concerned With It. In Riis, S. et al. *Rethinking Climate Change Research: Clean-Technology, Culture and Communication*, London: *Ashgate*.
- G. Goeminne (2011) Once upon a time I was a nuclear physicist. What the politics of sustainability can learn from the nuclear laboratory. *Perspectives on Science* 19 (1) 1-31.
- G. Goeminne (2011). Postphenomenology and the politics of sustainable technology. *Foundations of Science* 16 (2-3) 173-194
- G. Goeminne (2011) Has science ever been normal? On the need and impossibility of a sustainability science. *Futures* 43 (6) 627-636
- G. Goeminne and E. Paredis (2011). Opening up the in-between. Ihde's postphenomenology and beyond. *Foundations of Science* 16 (2-3) 101-107
- G. Goeminne and E. Paredis (Editors). 2011. Opening up the in-between: interdisciplinary reflections on science, technology and social change. A special issue of *Foundations of Science* 16 (2-3).
- G. Goeminne, F. Kolen, and E. Paredis. (2011). Addressing the sustainability challenge beyond the fact-value dichotomy. A call for engaged knowledge. In: Aerts, D., D'Hooghe B., Pinxten R. and Wallerstein, I. *Worldviews, Science and Us: Interdisciplinary Perspectives on Worlds, Cultures and Society*. Singapore: *World Scientific Publishing Company*.
- G. Goeminne and E. Paredis (2011). The concept of ecological debt: challenging established science-policy frameworks in the transition to sustainable development. In: Techere, E.. (Eds.) *Centres of and Mechanisms for Environmental Justice: Interdisciplinary perspectives*. Oxford: *Interdisciplinary Press*.
- G. Goeminne and K. François (2010). The thing called environment: What it is and how to be concerned with it. *Oxford Literary Review* 32 (1) 109-130

- G. Goeminne (2010). Climate Policy is Dead, Long Live Climate Politics! *Ethics, Policy and Environment* 13(2) 207-214
- E. Paredis, G. Goeminne, W. Vanhove, F. Maes and J. Lambrecht (2009). The Concept of Ecological Debt: its Meaning and Applicability in International Policy. Gent: *Academia Press*.
- G. Goeminne and E. Paredis (2009). The concept of ecological debt: Some steps towards an enriched sustainability paradigm. *Environment, Development and Sustainability* 12 (5) 691-712
- G. Goeminne and E. Paredis (2009). The Concept of Ecological Debt: an Environmental Justice Approach to Sustainability, Calling for Radical Transitions in Industrialized Countries. In: Vemuri, S. (Ed.), *Connected Accountabilities: Environmental Justice and Global Citizenship*. Oxford: *Inter-Disciplinary Press*.
- L. De Smet, C. Wagemans, G. Goeminne, J. Heyse and J. Van Gils (2007). Experimental determination of the $^{36}\text{Cl}(n,p)^{36}\text{S}$ and $^{36}\text{Cl}(n,\alpha)^{33}\text{P}$ reaction cross sections and the consequences on the origin of ^{36}S . *Physical Review C* 75, 34617
- L. De Smet, C. Wagemans, G. Goeminne, J. Wagemans, J. Heyse and J. Van Gils (2005). Investigation of the (n,p) and (n, α) reactions on ^{26}Al and ^{36}Cl and their astrophysical relevance. *Nuclear Physics A* 758, 80c–83c
- C. Wagemans, G. Goeminne, L. De Smet and J. Wagemans (2003). High resolution measurement of the $^{36}\text{Cl}(n,p)^{36}\text{S}$ and $^{36}\text{Cl}(n,\alpha)^{33}\text{P}$ reactions. *Nuclear Physics A* 719, 127c-130c
- J. Wagemans, C. Wagemans, G. Goeminne, O. Serot, M. Loiselet and M. Gaelens (2002). The $^{17}\text{O}(n,\alpha)^{14}\text{C}$ reaction from subthermal up to approximately 350 keV neutron energy. *Physical Review C* 65:1-7
- G. Goeminne, C. Wagemans, J. Wagemans, U. Köster, P. Geltenbort, B. Denecke, L. Johansson and S. Pommé (2002). Preparation and characterisation of an ^{39}Ar sample and study of the $^{39}\text{Ar}(n,\alpha)^{36}\text{S}$ reaction. *Nuclear Instruments and Methods A* 489, 577-583
- M. Gaelens, M. Loiselet, C. Wagemans, J. Wagemans and G. Goeminne (2002). Realization of nuclear targets by ion implantation: the ^{17}O case. *Nuclear Instruments and Methods A* 480, 233-236
- C. Wagemans, J. Wagemans, G. Goeminne, M. Loiselet and M. Gaelens (2002). Preparation of highly enriched ^{17}O samples for neutron induced reaction studies. *Nuclear Instruments and Methods A* 480, 229-232
- G. Goeminne, C. Wagemans, J. Wagemans, P. Geltenbort, M. Loiselet, M. Gaelens, B. Denecke and U. Köster (2001). Investigation of the $^{37}\text{Ar}(n,p)^{37}\text{Cl}$, $^{37}\text{Ar}(n,\alpha)^{34}\text{S}$ and $^{39}\text{Ar}(n,\alpha)^{36}\text{S}$ reactions at various stellar temperatures. *Nuclear Physics A* 688, 233-236
- J. Wagemans, C. Wagemans, G. Goeminne and P. Geltenbort (2001). Detailed investigation of the $^{14}\text{N}(n,p)^{14}\text{C}$, $^{17}\text{O}(n,\alpha)^{14}\text{C}$, $^{26}\text{Al}(n,p)^{26}\text{Mg}$ and $^{26}\text{Al}(n,\alpha)^{23}\text{Na}$ reactions. *Nuclear Physics A* 688, 490-492
- J. Wagemans, C. Wagemans, G. Goeminne, P. Geltenbort, B. Denecke and A. Moens (2001). Investigation of the thermal $^{26}\text{Al}(n,p)^{26}\text{Mg}$ and $^{26}\text{Al}(n,\alpha)^{23}\text{Na}$ reactions. *Nuclear Physics A* 696/1-2, 109-122
- C. Wagemans, J. Wagemans and G. Goeminne (2001). Determination of atomic masses and nuclear binding energies via neutron induced reactions. *Journal of Hyperfine Interactions* 132, 323-329
- Bieber, R., Wagemans, C., Goeminne, G., Wagemans, J., Denecke, B., Loiselet, M, Gaelens, M., Geltenbort, P. and Oberhummer, H. (1999). Thermal neutron induced (n,p) and (n, α) reactions on Ar-37. *Nuclear Physics A*, 647(1–2), 3–11

Selected publications in Dutch

- Goeminne, G., Block, T., (2014). De coproductie van feitelijkheden en bezorgdheden: over de plaats van duurzaamheidsonderzoek en de vraag naar relevante kennis. In: Block, T., Goeminne, G. (red.), *Duurzaamheidsonderzoek in de spiegel: Reflecties op het raakvlak tussen kennis en engagement*. Gent: *Academia Press*.
- T. Block and G. Goeminne (Editors). (2014). *Duurzaamheidsonderzoek in de spiegel: Reflecties op het raakvlak tussen kennis en engagement*. Gent: *Academia Press*.
- G. Goeminne (2011). Heeft het klimaat nood aan consensus? Pleidooi voor een politiek van het denkbare. *Res Publica* 53(4) 453-466
- G. Goeminne (2011) Energietransitie in praktijk: Omwenteling of afwenteling? *Internationale Spectator* 65 (1) 24-26

Selected policy-relevant research reports

- G. Goeminne and E. Mutombo (2008). The Field of Scenarios: fuzziness as a chance for building appealing future visions, Working paper for the CONSENTSUS project, Centrum voor Duurzame Ontwikkeling, UGent
- J. Gerlo and G. Goeminne (2005). MFA-indicatoren voor grondstofgebruik: verkenning van de mogelijkheden voor sectorale opsplitsing en koppeling met milieu-impact. Research report for the Flemish Environmental Agency, VMM.
- Paredis, E., Lambrecht, J., Goeminne, G., & Vanhove, W. (2004). *VLIR-BVO project 2003* "Elaboration of the concept of ecological debt." Gent, Belgium: Centre for Sustainable Development (CDO) - Ghent University.
- J. Gerlo, G. Goeminne en B. Mazijn (2004). Materiaalstromen. MIRA-T 2004, Environmental Report Flanders, 41-56.
- J. Gerlo, G. Goeminne en B. Mazijn (2003). Gebruik van grondstoffen. MIRA-T 2003, Environmental Report Flanders, 303-312
- B. De Ridder, G. Goeminne, B. Mazijn en G. Vanhoutte (2002). Gebruik van grondstoffen. MIRA-T 2002, Environmental Report Flanders, 271-278
- B. Mazijn and G. Goeminne (2003). Transfer of environmentally sound technologies to developing countries under the UNFCCC. Final Report, Centrum voor Duurzame Ontwikkeling, UGent.