Inne Vanderkelen

inne.vanderkelen@kuleuven.be
Belgian, °Leuven, 23 August 1994

website

Education

Oct 2017- Sept 2022	Vrije Universiteit Brussel, Department of Hydrology and Hydraulic Engineering PhD in CLIMATE SCIENCE (awarded with "congratulations of the jury") Thesis: "Changing storage: A global perspective on reservoirs in a changing climate."
Sept 2015 - June 2017	KU Leuven and Vrije Universiteit Brussel MSc in GEOGRAPHY, specialization Earth and Climate, Summa cum laude (88 %), Thesis: "Projecting the future levels of Lake Victoria: a water balance model study".
Sept 2012 - June 2015	KU Leuven Bachelor in GEOGRAPHY, minor mathematics and physics, cum laude (72 %)

Experience

Mar 2024- present	Research expert (FED-tWIN) at KU Leuven and Royal Meteorological Institute of Belgium (RMIB)
Oct 2022 - Feb 2024	Postdoctoral researcher at University of Bern: Wyss Academy for Nature, Climate and Environmental Physics and Oeschger Center for Climate Change Research
Oct 2017 - Sept 2022	Scientific Researcher in climate science (FWO PhD fellow) Vrije Universiteit Brussel

Awards & fellowships

2023	Wiley Top Downloaded Article award for Vanderkelen et al., 2021 in JGR: Atmospheres
2022	**"Felicitations of the jury" distinction on PhD thesis** (top 2% PhDs Faculty of Engineering, VUB)
2022	**CESM Graduate Student Award** from NCAR Climate and Global Dynamics Laboratory, for key contributions to the implementation of reservoirs and their management in CESM
2022	Regional Finalist of the Green Impact International Special Awards, category Sustainability Hero
2021	**Andrew Slater award for best graduate student** contribution at LMWG annual meeting [$500]
2020	**Prize Ernest Dubois awarded by the King Baudouin Foundation** [€ 20,000]
2018	**Research foundation – Flanders (FWO): PhD Fellowship** [~ € 175,000]
2018	VUB NSE Doctoral school – Travel grant for attending EGU General Assembly [€ 500]
2018	Third best poster prize at Flemish Supercomputer Centre User Day [400 node days]
2018	EGU Highlight Article award for Vanderkelen et al. (2018a and b, Hydrol. Earth Syst. Sci.).
2017	Best MSc thesis in Geography, awarded by the Alumni Geography and Tourism Leuven [€ 200]

Skills

Languages

Dutch (Mohter tongue), English (Excellent), French (Good), German (Basics, B1), Spanish (Basics, A2)

Software

Climate models and software:	CESM, CLM, ILAMB, mizuRoute
Programming languages:	Python (numpy, xarray, matplotlib, (geo)pandas, cartopy), git, CDO, NCO, bash, Fortran, Matlab, R , Google Earth Engine
Remote sensing and GIS:	QGIS, ArcGIS

Office applications:	LaTeX, MS Office, Notion, Zotero, Mendeley
Operating systems:	Linux, Windows

Scientific contributions

International peer-reviewed publications (19).

20. Gharari, S., Vanderkelen, I., Tefs, A., Mizukami, N., Kluzek, E., Stadnyk, T., Lawrence, D., & Clark, M. P. (2024). A Flexible Framework for Simulating the Water Balance of Lakes and Reservoirs From Local to Global Scales: mizuRoute-Lake. Water Resources Research, 60(5), e2022WR032400. https://doi.org/10.1029/2022WR032400

19. Pietroiusti, R., **Vanderkelen, I.,** Otto, F. E. L., Barnes, C., Temple, L., Akurut, M., Bally, P., van Lipzig, N. P. M., & Thiery, W. (2024). Possible role of anthropogenic climate change in the record-breaking 2020 Lake Victoria levels and floods. Earth System Dynamics, 15(2), 225–264. https://doi.org/10.5194/esd-15-225-2024

18. Hes, G., **Vanderkelen, I.,** Fisher, R., Chave, J., Ogée, J., & Davin, E. L. (2024). Projecting future forest microclimate using a land surface model. Environmental Research Letters, 19(2), 024030. https://doi.org/10.1088/1748-9326/ad1f04

17. Frieler K., Jan Volkholz, Stefan Lange, Jacob Schewe, Matthias Mengel, María del Rocío Rivas López, Christian Otto, Christopher P.O. Reyer, Dirk Nikolaus Karger, Johanna T. Malle, Simon Treu, Christoph Menz, Julia L. Blanchard, Cheryl S. Harrison, Colleen M. Petrik, Tyler D. Eddy, Kelly Ortega-Cisneros, Camilla Novaglio, Yannick Rousseau, Reg A. Watson, Charles Stock, Xiao Liu, Ryan Heneghan, Derek Tittensor, Olivier Maury, Matthias Büchner, Thomas Vogt, Tingting Wang, Fubao Sun, Inga J. Sauer, Johannes Koch, **Inne Vanderkelen**, Jonas Jägermeyr, Christoph Müller, Jochen Klar, Iliusi D. Vega del Valle, Gitta Lasslop, Sarah Chadburn, Eleanor Burke, Angela Gallego-Sala, Noah Smith, Jinfeng Chang, Stijn Hantson, Chantelle Burton, Anne Gädeke, Fang Li, Simon N. Gosling, Hannes Müller Schmied, Fred Hattermann, Jida Wang, Fangfang Yao, Thomas Hickler, Rafael Marcé, Don Pierson, Wim Thiery, Daniel Mercado-Bettín, Forrest M., and Bechtold M. (2024). Scenario setup and forcing data for impact model evaluation and impact attribution within the third round of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP3a). Geoscientific Model Development, 17(1), 1–51. https://doi.org/10.5194/gmd-17-1-2024

16. von Schuckmann, K., Minère, A., Gues, F., Cuesta-Valero, F. J., Kirchengast, G., Adusumilli, S., Straneo, F., Allan, R., Barker, P. M., Beltrami, H., Boyer, T., Cheng, L., Church, J., Desbruyeres, D., Dolman, H., Domingues, C. M., García-García, A., Giglio, D., Gilson, J. E., Gorfer, M., Haimberger, L., Hendricks, S., Hosoda, S., Johnson, G. C., Killick, R., King, B., Kolodziejczyk, N., Korosov, A., Krinner, G., Kuusela, M., Langer, M., Lavergne, T., Lawrence, I., Li, Y., Lyman, J., Marzeion, B., Mayer, M., MacDougall, A. H., McDougall, T., Monselesan, D. P., Nitzbon, J., Otosaka, I., Peng, J., Purkey, S., Roemmich, D., Sato, K., Savita, A., Schweiger, A., Shepherd, A., Seneviratne, S. I., Simons, L., Slater, D. A., Slater, T., Smith, N., Steiner, A., Suga, T., Szekely, T., Thiery, W., Timmermans, M.-L., **Vanderkelen, I.,** Wijffels, S. E., Wu, T., and Zemp, M. (2023). Heat stored in the Earth system 1960–2020: Where does the energy go? Earth System Science Data, 15(4), 1675–1709. https://doi.org/10.5194/essd-15-1675-2023

15. Cuesta-Valero, F. J., Beltrami, H., García-García, A., Krinner, G., Langer, M., MacDougall, A. H., Nitzbon, J., Peng, J., von Schuckmann, K., Seneviratne, S. I., Smith, N., Thiery, W., **Vanderkelen, I.**, and Wu, T. (2023): Continental heat storage: Contributions from ground, inland waters, and permafrost thawing, Earth Syst. Dynam., in press. https://doi.org/10.5194/esd-2022-32

14. De Hertog, S. J., Havermann, F., **Vanderkelen, I.,** Guo, S., Luo, F., Manola, I., Coumou, D., Davin, E. L., Duveiller, G., Lejeune, Q., Pongratz, J., Schleussner, C.-F., Seneviratne, S. I., & Thiery, W. (2023). The biogeophysical effects of idealized land cover and land management changes in Earth system models. Earth System Dynamics, 14(3), 629–667. https://doi.org/10.5194/esd-14-629-2023

13. Yao Y., **Vanderkelen I.,** Lombardozzi D., Swenson S., Lawrence D., Jägermeyer J., Grant L., Thiery W. (2022). Implementation and evaluation of irrigation techniques in the Community Terrestrial Systems Model. Journal of Advances in Modeling Earth Systems, 14, e2022MS00307, https://doi.org/10.1029/2022MS003074

12. Golub, M., Thiery, W., Marcé, R., Pierson, D., **Vanderkelen, I.,** Mercado, D., Woolway, R. I., Grant, L., Jennings, E., Schewe, J., Zhao, F., Frieler, K., Mengel, M., Bogomolov, V. Y., Bouffard, D., Couture, R.-M., Debolskiy, A. V., Droppers, B., Gal, G., Guo, M., Janssen, A. B. G., Kirillin, G., Ladwig, R., Magee, M., Moore, T., Perroud, M., Piccolroaz, S., Raaman Vinnaa, L., Schmid, M., Shatwell, T., Stepanenko, V. M., Tan, Z., Yao, H., Adrian, R., Allan,

M., Anneville, O., Arvola, L., Atkins, K., Boegman, L., Carey, C., Christianson, K., de Eyto, E., DeGasperi, C., Grechushnikova, M., Hejzlar, J., Joehnk, K., Jones, I. D., Laas, A., Mackay, E. B., Mammarella, I., Markensten, H., McBride, C., Özkundakci, D., Potes, M., Rinke, K., Robertson, D., Rusak, J., Salgado, R., van den Linden, L., Verburg, P., Wain, D., Ward, N. K., Wollrab, S., and Zdorovennova, G. (2022). A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector, Geoscientific Model Development, 15, 4597–4623, https://doi.org/10.5194/gmd-15-4597-2022

11. **Vanderkelen I.,** Gharari S., Mizukami N., Clark M., Lawrence D. M., Swenson S., Pokhrel Y., Hanasaki N., van Griensven A., Thiery W. (2022). Evaluating a reservoir parametrization in a vector-based global routing model for Earth System Model coupling. Geoscientific Model Development, 15, 4163-4192. https://doi.org/10.5194/gmd-15-4163-2022

10. Nakulopa, F., **Vanderkelen, I.,** van de Walle, J., van Lipzig, N. P. M., Tabari, H., Jacobs, L., Tweheyo, C., Dewitte, O., & Thiery, W. (2022). Evaluation of high-resolution precipitation products over the Rwenzori Mountains (Uganda). Journal of Hydrometeorology, 23(5), 747–768. https://doi.org/10.1175/JHM-D-21-0106.1

9. Grant L., **Vanderkelen I.,** Gudmundsson L., Tan Z., Perroud M., Stepanenko V. M., Debolskiy A., Droppers B., Janssen A. B. G., Woolway I. R., Schmid M., Schewe J., Zhao F., Golub M., Pierson D., Marcé R., Seneviratne S. I., Kirillin G., Thiery W. (2021). Attribution of worldwide lake systems change to anthropogenic forcing. **Nature Geoscience**, 14, 849–854. https://doi.org/10.1038/s41561-021-00833-x pdf

8. **Vanderkelen, I.,** Lipzig, N. P. M., Sacks, W. J., Lawrence, D. M., Clark, M. P., Mizukami, N., Pokhrel, Y., & Thiery, W. (2021). Simulating the Impact of Global Reservoir Expansion on the Present-Day Climate. Journal of Geophysical Research: Atmospheres, 126(16), e2020JD034485. https://doi.org/10.1029/2020JD034485 code data **(Wiley's Top Downloaded Article 2021)**

7. Woolway, R. I., Sharma, S., Weyhenmeyer, G. A., Debolskiy, A., Golub, M., Mercado-Bettín, D., Perroud, M., Stepanenko, V., Tan, Z., Grant, L., Ladwig, R., Mesman, J., Moore, T. N., Shatwell, T., **Vanderkelen, I.,** Austin, J. A., DeGasperi, C. L., Dokulil, M., La Fuente S., Mackay, E. B., Schladow, S. G., Watanabe, S., Marcé, R., Pierson, D. C., Thiery, W., Jennings, E. (2021). Phenological shifts in lake stratification under climate change. **Nature Communications**, 12(1), 2318. https://doi.org/10.1038/s41467-021-22657-4 pdf

6. **Vanderkelen I.,** van Lipzig N.P.M., Lawrence D. M., Droppers B., Gosling S. N., Janssen A. B. G., Marcé R., Müller-Schmied H., Perroud M., Pierson D., Pokhrel Y., Satoh Y., Schewe J., Seneviratne S. I., Stepanenko V. M., Tan Z., Woolway R. I., Thiery W. (2020) Global heat uptake by inland waters. Geographical Research Letters. 47(12), e2020GL087867. https://doi.org/10.1029/2020GL087867 code

5. **Vanderkelen I.,** Zscheischler J., Gudmundsson L., Keuler K., Rineau F., Beenaerts N., Vangronsveld J., Vicca S., Thiery W. (2020) A new method for assessing climate impacts in ecotron experiments. International Journal of Biometeorology, 64, 1709–1727. https://doi.org/10.1007/s00484-020-01951-8 code

4. Sterl, S., **Vanderkelen, I.,** Chawanda, C. J., Russo, D., Brecha, R., van Griensven, A., van Lipzig, N. P. M., Thiery, W. (2020) Smart renewable electricity portfolios in West Africa. **Nature Sustainability** 3, 710–719. https://doi.org/10.1038/s41893-020-0539-0 pdf

3. Rineau F., Malina R., Beenaerts N., Arnauts N., Bardgett R. D., Berg M. P., Boerema A., Bruckers L., Clerinx J., Davin E. L., De Boeck H. J., De Dobbelaer T., Dondini M., De Laender F., Ellers J., Franken O., Gilbert L., Gudmundsson L., Janssens I. A., Johnson D., Lizin S., Longdoz B., Meire P., Meremans D., Milbau A., Moretti M., Nijs I., Nobel A., Pop I. S., Puetz T., Reyns W., Roy J., Schuetz J., Seneviratne S. I., Smith P., Solmi F., Staes J., Thiery W., Thijs S., **Vanderkelen I.,** Van Landuyt W., Verbruggen E., Witters N., Zscheischler J., Vangronsveld J. (2019) Towards more predictive and interdisciplinary climate change ecosystem experiments. **Nature Climate Change**, 9(11), 809–816. https://doi.org/10.1038/s41558-019-0609-3 pdf

2. **Vanderkelen, I.,** van Lipzig, N.P.M., Thiery, W. (2018) Modelling the water balance of Lake Victoria (East Africa) - Part 1: Observational analysis. Hydrology and Earth System Sciences, 22, 5509-5525 (**HESS highlight article**). https://doi.org/10.5194/hess-22-5509-2018 code

1. **Vanderkelen, I.,** van Lipzig, N.P.M., Thiery, W. (2018) Modelling the water balance of Lake Victoria (East Africa) - Part 2: Future projections. Hydrology and Earth System Sciences, 22, 5527-5549 (**HESS highlight article**). https://doi.org/10.5194/hess-22-5527-2018 code

Manuscripts forthcoming (10)

Taranu I. S., Lawrence D., Wada Y., Tang T., Kluzek E., Rabin S., Yao Y., De Hertog S., **Vanderkelen I.**, and Thiery W.: Bridging the gap: a new module for human water usage in the Community Earth System Model, submitted to Geoscientific Model Development.

Grant, L., **Vanderkelen I.,** Gudmundsson L., Fischer E., Seneviratne S., Thiery W.: The evolution of the global population experiencing unprecedented exposure and its age of emergence. In review in Nature.

Vanderkelen I., Davin E. L., Keune J:, Miralles D. G., Wada Y., Müller-Schmied H:, Gosling S., Pokhrel Y:, Satoh Y., Hanasaki N., Burek P., Ostberg S., Grant L., Taranu S., Mengel M., Volkholz J., Thiery W.: Quantifying lifetime water scarcity. In prep.

Vanderkelen I., Stocker B. D., Davin E. L., Hydrological co-benefits of soil carbon sequestration. In prep.

Hari, C., Hickler T., Hof C., Reyer C., **Vanderkelen I.,** Voskamp A., Fischer M., Davin E.: Combining future projections of land-use and climate change to assess their impact on biodiversity. Submitted to Science advances.

Xu R., Su. Y., **Vanderkelen I.,** Davin E. L.. The impact of afforestation on surface water availability in China over the past 30 years. In prep.

Van Tricht L., Zekollari H., Huss M., Vanderkelen I., Van Tiel M., Compagno L., Huybrechts P., Farinotti D., Future glacier mass loss in the Tien Shan strongly reduces summer water availability. Submitted to Nature Water.

Reports

Demory M., Pettifor R., **Vanderkelen I**., Owuor M., Okello C., Davin E. L., Funnel S., Göpel J., Kiteme B., Mwangi J., Ng'ang'a A., Okita B., Wandera A. (2023). ID Water Scarcity Synthesis Report: Participatory workshop for the interdisciplinary research on water scarcity and climate change in the Ewaso Ng'iro North River Basin, Wyss Academy Synthesis Report, 36 p.

Hassler, B., Lauer, A., Reimuth, A., Müller, B., Davin, E., Hirschi, M., Coll, J., Grant, L., Thiery, W., **Vanderkelen, I.** (2021). Thematic Assessment Report on Task 7.3: Earth Energy Balance, Copernicus Climate Change Service report, 36 p.

Invited talks

- **Dec 2023**: Wyss Academy for Nature seminar series. Title: "*Sustaining water for people and plants*"
- **Nov 2023**: Colloquium in Climatology, Climate Impact, Remote Sensing and Geocomputation at the Geography Institute, University of Bern. Title: "*Sustaining water for people and plants: Assessing global water scarcity across generations and exploring hydrological co-benefits of soil carbon sequestration*"
- **May 2023**: Seminar series at the Department of water and Climate, Vrije Universiteit Brussel. Title: "*Quantifying lifetime water scarcity*"
- **June 2022**: Annual CESM meeting: **CESM Graduate Student Award presentation** at the National Center for Atmospheric Research, Boulder, CO. Title: "*Changing Storage: Towards dams and reservoirs in Earth System Models*"

Abstracts in proceedings of international conferences

2023

- EGU general assembly conference, Vienna, May (PICO, **session highlight**)
- ISIMIP annual workshop, Prague, May (online presentation)
- Swiss Climate Summerschool, Ascona, August (poster).

2022

- 1st Land Surface Modelling Summit, Oxford, September (poster)
- EGU general assembly conference, Vienna, May (oral)

- ISIMIP & PROCLIAS workshop, Potsdam, May (poster)
- Land Model & Biogeochemistry Working Group Winter Meeting, February (online presentation)

2021
- AGU General assembly, December (oral, remote)
- AGU General assembly, December (oral co-author, remote)
- VUB PhD day: Sustainable Development Goals, 27th of May (oral, remote)
- EGU general assembly conference, April (virtual PICO presentation, remote)
- Land Model & Biogeochemistry Working Group Winter Meeting, February (online presentation **– Andrew Slater award for best graduate student presentation**). pdf

2020
- AGU General Assembly, December (oral, remote)
- International Environmental Modelling and Software Society Conference, July (poster & oral, remote)
- International Environmental Modelling and Software Society Conference, July (poster, co-author)
- Cross-sectoral ISIMIP online workshop, June. (oral, remote)
- EGU general assembly conference, May. (online display)
- EGU general assembly conference, May. (online display, co-author)
- EGU general assembly conference, May. (online display, co-author)
- EGU general assembly conference, May. (online display, co-author)

2019
- AGU Fall Meeting, San Francisco, December (poster, co-author)
- 6th Workshop on Parameterization of Lakes in NWP and Climate Modelling, Toulouse, October (oral)
- EGU general assembly conference, Vienna, April (poster).
- CLIMRISK conference, Trento, October (poster, co-author)
- Land Model Working Group Winter Meeting, Boulder, February (oral) pdf.

2018
- Swiss Climate Summerschool, Grindelwald, August (poster).
- Flemish Supercomputer Users day, May (poster – **3rd place best poster prize**).
- EGU general assembly conference, Vienna, April (oral).
- Disaster Risk Reduction workshop, Kampala, Uganda, 6th of February (oral)

2017
- The 7th Belgian Geography day, Liège, Belgium, 17th of November (oral)
- EGU general assembly conference, Vienna, April (poster).

Contributions to teaching and student representation

Teaching

2022-2024

- Co-lecturer for 'Nature-Based Solutions for climate change adaptation and mitigation' (coordinator Edouard Davin)
  MSc in Climate Sciences (University of Bern)

2018-2022
- Teaching assistant for 'Land-Climate Dynamics' (coordinator Wim Thiery)
  MSc Water Resources Eng., MSc Geography and MSc of Applied Computer Science (VUB and KU Leuven)

2017-2018
- Teaching assistant for 'GIS for Water Resources Engineering' (coordinator Boud Verbeiren)
  MSc in Water Resources Engineering (VUB)

2014-2015

- Student tutor in Peer Assistant Learning sessions for Physical Geography
  BSc Geography (KU Leuven)

MSc thesis supervision (6)

- Rosa Pietroiusti (Geography, 2021-2022)
- Seppe Lampe (Applied Computer Science, 2020-2021)
- An Rubens (Geography, 2020-2021)
- Faluku Nakulopa (Water Resources Engineering, 2019-2020)
- Luke Grant (Water Resources Engineering, 2018-2019)
- Daniela Hernàndez (Civil Engineering, 2017-2018)

Student representation

- Departmental Council of Hydrology and Hydraulic Engineering: PhD representative (2020-2022)
- Permanent Education Commission BSc Geography KU Leuven (2013-2016)
- Interuniversity Education Commission MSc Geography KU Leuven (2015-2017)
- Student council (StuRa): representative of geography and tourism students KU Leuven (2014-2015)

Contributions to research proposals

- FWO PhD fellowship and EUTOPIA applications of Rosa Pietroiusti, submitted in 2022 (funded)
- FWO PhD fellowship application of Seppe Lampe, submitted in 2021 and 2022 (funded)
- FWO PhD fellowship application of Lualawi Admasu, submitted in 2021 (withdrawn before evaluation)

Community service

Reviews of research papers

For scientific journals: Geoscientific Model Development, Ecology and Evolution, Journal of Hydrology, Scientific Reports, Geophysical Research Letters, Theoretical and Applied Climatology, Climatic Change, Water Resources Research

Convening

Co-convener of "Land-atmosphere interactions and climate extremes" session at EGU General Assembly 2024

Outreach

2023

- Co-authored article in **Knack** (Flemish magazine) on the Belgian climate case, 28 March 2023

2022

- Interview in **Terzake** (Flemish television) on geoengineering, broadcasted on 25 August 2022
- Interview in VUB podcast series #ScientistsWithACause on PhD research (8 June 2022)
- Presentation on climate change for local organization We-IT in Hoeilaart, (11 May 2022).

2021

- Press release on VUB Today for study on lake attribution (Grant et al., 2021)
- Interview in 'Kerk en Leven' on Women in Science. (8th August 2021). pdf
- Speaker on 'Soapbox Science' event (Brussels, 26th June 2021). aftermovie

2020

- Interview in '**Planeet Frank**' podcast (by Frank Deboosere, Flemish TV weather forecaster)

2019

- Interview in **Karrewiet** on the European Green Deal (children's news; broadcasted on national television on the 12th of December 2019).

- Interview on water-related problems in Belgium for the #klimaatraad series of **CANVAS** (Flemish TV channel). Appeared online on the 19th of July 2019.
- Co-organized a EUGreenWeek Partner Event: "BridgeOverWater: connecting science and policy", in Brussels, Belgium, May, 2019
- Presentation about climate change and framing the climate protests to 6th grade secondary school students in Koninklijk Atheneum Laken, Brussels, Belgium, April 2019.
- Presentation about climate change and the climate protests to 6th grade primary school students in Kessel-Lo, March 2019
- Co-organized "water4climate" march to ask for Comprehensive water policy taking into account the potential effects of climate change, Brussels March 2019.
- Led workshop "Water in the city, measuring is knowing", with 6th grade secondary school students about measuring precipitation. Brussels, March 2019.
- Taught 3 courses to 3rd and 4th grade secondary school students on climate science in Brussels for the Prometeruse project, Spring 2019.

2018

- Co-authored blog article on climate impacts of individuals, November 2018.
- Interview in **Karrewiet** on 1.5 °C warming (children's news; broadcasted on national television on the 1st of October 2018), and mentioned on VUB Today.
- Theater performance "The climate projections" by Frank Theys. Brussels, March 2018.
- Led workshop "Water in the city, measuring is knowing" with 6th grade secondary school students about measuring precipitation. Brussels, March 2018.

Other experience

International exchanges

- Wyss academy for Nature hub Kenya, Nanyuki, Kenya (Field visit and workshop organization, June 2023)
- National Center for Atmospheric Research (NCAR), Boulder CO, USA (Research stay, spring 2019)
- ETH Zürich, Institute for Atmospheric and Climate Science (Erasmus exchange, fall 2016)

Summer schools

- International Swiss Climate Summerschool (Ascona, Switzerland, 2023)
- Introduction to Machine Learning (FLAMES summer school, Hasselt, 2021)
- CTSM tutorial (NCAR, Boulder, 2019)
- International Swiss Climate Summer School (Grindelwald, Switzerland, 2018)
- CESM tutorial (NCAR, Boulder CO, 2017)

Trainings

- Stress and work-life blending, COMET program, University of Bern (February 2024)
- Leadership workshop, COMET program, University of Bern (December 2023)
- "Done being nice"- institutional power games, COMET program, University of Bern (August 2023)
- Writing grant proposals, COMET program, University of Bern (August 2023)
- Project management, University of Bern (March 2023)
- Coaching Mentoring and Training (COMET) career program for female postdocs, University of Bern (Spring 2023 – Autumn 2024)
- Travel Safety and Security Training, Wyss Academy for Nature at the University of Bern (February 2023)
- Writing for Women retreat including peer-coaching, University of Bern (January 2023)
- Personal effectiveness with MS Outlook training (February 2020)
- Summer school on Science communication 'Zeg 't eens' (August 2018)
- Media Training (April 2018)
- Education training for teaching assistants (April 2018)
- Writing Articles and Abstracts in the Natural and Applied Sciences (March 2018)
- Efficient Networking Skills (November 2017)

Voluntary work

2018 – 2021	Coordinator of the Green team of the Hydrology department, as part of the VUB Green impact project (Golden award in 2019, 2020, platinum in 2021)
2015 – 2016	Contact Person of the Leuven entity for the European Geography Association for geography students (EGEA)
2014 – 2015	President of the university association for geography students Merkator Leuven vzw
2012 – 2016	Certified head leader on youth camps with Kazou (2012-2016)

Other

2016	GIS and data quality control student job at GIM (Geo Information company)
2010 – 2015	Student job in logistics at Hof Ten Doenberge (Nursery home)
2008 – now	Saxophone player (graduated music school after 12 years instrument study)