Sara Lindersson, PhD

Uppsala, Sweden | +46 76 045 17 50 | sara.lindersson@geo.uu.se

October 2026

Academic degrees

2018–2023 **PhD, Environmental Analysis**, Uppsala University, Uppsala, Sweden. Doctoral dissertation: *The use of global data to uncover how humans shape flood and drought risk*.

2010–2015 **MSc, Environmental Engineering (civilingenjör)**, KTH Royal Institute of Technology, Stockholm, Sweden.

Research positions

2026–present **Researcher,** Swedish Centre for Impacts of Climate Extremes (climes), Department of Earth Sciences, Uppsala University. Research on global disaster impacts.

2025–present **Postdoctoral researcher**, Department of Government, Uppsala University, part-time appointment (20%). Research on urban disaster experiences and climate adaptation policies.

2023–2026 **Postdoctoral researcher**, Centre of Natural Hazards and Disaster Science (CNDS) and Swedish Centre for Impacts of Climate Extremes (climes), Uppsala University. Research on disaster risk reduction and temperature-related climate extremes worldwide.

Professional experience outside academia (selection)

2015–2018 **Technical consultant**, geospatial analysis and hydraulics, AFRY, Stockholm. National and international projects involving hydraulic river modelling, dam-break simulations, flood risk mapping, land-cover analysis, and cartography for environmental impact assessments.

International academic visits

2025 **Helmholtz Centre for Environmental Research (UFZ)**, Leipzig, Germany. One month.

2013 **The Southern Institute of Water Resources Research**, Ho Chi Minh City, Vietnam. Two months.

2012 **University of Melbourne**, Melbourne, Australia. Six months.

Academic service and positions of trust

2025–present	**Postdoctoral representative**, Management Group, Centre of Natural Hazards and Disaster Science (CNDS).
2022–present	**Peer reviewer** of more than 20 publications for 19 scientific journals, including *Nature*, *Nature Sustainability*, *Nature Climate Change*, *Nature Communications*, *Scientific Data, Geophysical Research Letters*, and *One Earth*.
2023, 2025	**Recruitment committee member** for the appointment of three postdoctoral researchers, Uppsala University.
2021–2024	**Co-convener** for conference session “Large-sample hydrology: Characterizing and understanding hydrologic diversity and catchment organization”. *EGU General Assembly*, Vienna, Austria.

Awards and distinctions

Benzelius Award, Technical-Economic class, The Royal Society of Sciences in Uppsala. 2025.

Research Highlight in *Nature.* “Floods claim more lives where inequality reigns”. 2023. https://doi.org/10.1038/d41586-023-01280-x

Acquired funding

From Planetary Boundaries to Planetary Solutions visiting fellow grant. Helmholtz Centre for Environmental Research. 27 000 SEK. Main applicant. 2025.

Wenner-Gren Foundations travel grant. 18 000 SEK. Main applicant. 2024.

CNDS interdisciplinary research grant. 57 000 SEK. Main applicant. 2022.

SIDA Minor Field Study grant. 60 000 SEK. Main applicant. 2013.

Peer-reviewed publications

1. **Lindersson, S.**, Jonsson, E., and Di Baldassarre, G.: A comparative approach for assessing shifts in drought propagation before and after dam construction. Under review for *Ambio*.

2. **Lindersson, S.**, Di Baldassarre, G., Parker, C. F., Bondesson, S., Koivisto, J., Olivetti, L., Akinyemi, F. O., Messori, G., Biella, R., Burchardt, S., Canedo Rosso, C., de Goër de Herve, M., Deegan, F., Döring, S., Dubois, K., Eriksson, L. M., Fernandez, J., Gebru, B., Göteman, M., …, and Nohrstedt, D.: Unpacking and navigating complexity in disaster risk reduction. Under review for *npj Natural Hazards*.

3. Di Baldassarre, G., Madruga de Brito, M., **Lindersson, S.**, Albrecht, F., and Rusca, M.: Breaking vicious cycles of hydrological disasters and socioeconomic inequalities. *Hydrological Sciences Journal* (2026).

4. **Lindersson, S.**, and Messori, G.: SHEDIS-Temperature: Linking temperature-related disaster impacts to subnational data on meteorology and human exposure. *Earth System Science Data* (2025).

5. Huggins, X., Gleeson, T., Famiglietti, J. S., Reinecke, R., Zamrsky, D., Wagener, T., Taylor, R. G., Konar, M., Ruz Vargas, C., Porkka, M., Wang-Erlandsson, L., de Graaf, I., Cuthbert, M., **Lindersson, S.**, Wada, Y., Bierkens, M. F. P., Pokhrel, Y., Rocha, J., Di Baldassarre, G., …, and Zheng, C.: A review of open data for studying global groundwater in social–ecological systems, *Environmental Research Letters* (2025).

6. Kreibich, H., Sivapalan, M., AghaKouchak, A., Addor, N., Aksoy, H., Arheimer, B., Arnbjerg-Nielsen, K., Vail-Castro, C., Cudennec, C., Madruga de Brito, M., Di Baldassarre, G., Finger, D. C., Fowler, K., Knoben, W., Krueger, T., Liu, J., Macdonald, E., McMillan, H., Mendiondo, E. M., Montanari, A., ..., **Lindersson, S.**, ..., and Blöschl, G.: Panta Rhei: a decade of progress in research on change in hydrology and society, *Hydrological Sciences Journal* (2025).

7. Rusca, M., Sverdlik, A., Acharya, A., Basel, B., Boyd, E., Comelli, T., Dodman, D., Fraser, A., Harris, D. M., **Lindersson, S.**, Mazzoleni, M., Mbah, M. F., Mitlin, D., Ogra, A., Pelling, M., Raffetti, E., Sultana, F., Thompson, E., Tozzi, A., …, and Messori, G.: Plural climate storylines to foster just urban futures, *Nature Cities* (2024).

8. Risling, A., **Lindersson, S.**, and Brandimarte, L.: A comparison of global flood models using Sentinel-1 and a change detection approach, *Natural Hazards* (2024).

9. **Lindersson, S.**, Raffetti, E., Rusca, M., Brandimarte, L., Mård, J., and Di Baldassarre, G.: The wider the gap between rich and poor the higher the flood mortality. *Nature Sustainability* (2023).

10. Di Baldassarre, G., Cloke, H., **Lindersson, S.**, Mazzoleni, M., Mondino, E., Mård, J., Odongo, V., Raffetti, E., Ridolfi, E., Rusca, M., Savelli, E., and Tootoonchi, F.: Integrating Multiple Research Methods to Unravel the Complexity of Human-Water Systems, *AGU Advances* (2021).

11. **Lindersson, S.**, Brandimarte, L., Mård, J., and Di Baldassarre, G.: Global riverine flood risk – how do hydrogeomorphic floodplain maps compare to flood hazard maps? *Natural Hazards and Earth System Sciences* (2021).

12. Mazzoleni, M., Mård, J., Rusca, M., Odongo, V., **Lindersson, S.**, and Di Baldassarre, G.: Floodplains in the Anthropocene: A Global Analysis of the Interplay Between Human Population, Built Environment, and Flood Severity, *Water Resources Research* (2021).

13. **Lindersson, S.**, Brandimarte, L., Mård, J., and Di Baldassarre, G.: A review of freely accessible global datasets for the study of floods, droughts and their interactions with human societies. *WIREs Water* (2020).

Conference contributions

"Navigating complexity in disaster risk reduction", oral presentation. *RisCon26 – Societal Risk Conference*. Karlstad, Sweden. 2026.

"The SHEDIS dataset", oral presentation. *The international conference on impacts of climate extremes 2026.* Uppsala, Sweden. 2026.

"Unravelling the complexity in disaster risk reduction associated with natural hazards", oral presentation. *The 2nd International Sociohydrology conference*. Tokyo, Japan. 2025.

"SHEDIS: Linking subnational hazard and exposure information with disaster impact records for international risk assessments", oral presentation. *EGU General Assembly*. Vienna, Austria. 2025.

"Quantifying health-related climate metrics of extreme temperature disasters: An international analysis over five decades", solicited oral presentation. *EGU General Assembly*. Vienna, Austria. 2024.

"Human-flood interactions: The role of economic inequality", oral presentation and poster. *IAHS-AISH Scientific Assembly*. Montpellier, France. 2022.

"What dataset should I choose? The influence of data choices on flood exposure estimations at national scales", oral presentation. *EGU General Assembly*. Online. 2021.

"Global and free geospatial datasets for the study of floods, droughts and human societies", oral presentation. *EGU General Assembly*. Online. 2020.

"Free and global datasets for the study of floods, droughts and human societies", poster presentation. *IAHS Panta Rhei Drought in the Anthropocene workshop.* Arizona, United States. 2019.

"Global patterns of the human interplay with floods and droughts", oral presentation. *EGU General Assembly*. Vienna, Austria. 2019.

"Drought impacts and response measures in Sweden 2018", oral presentation. *IAHS Panta Rhei Drought in the Anthropocene workshop*. Utrecht, Netherlands. 2018.

Scientific outreach and policy engagement

Policy brief contributor, Swedish Centre for Impacts of Climate Extremes (climes). Title: "Healthcare Preparedness in a Changing Climate". 2026.

Invited expert, Swedish Red Cross. Meeting on climate change impacts in Sweden, bringing together representatives from academia and the public, private and non-profit sectors. Stockholm 2025.

Invited talk, CNDS 15-Year Anniversary Event. Title: "Unpacking the complexity of disaster risk reduction". Uppsala, 2025.

Invited talk, Innovations for the Blue Planet 2024. Title: "Rising waters of inequality – an empirical analysis of income gaps and flood mortality". Stockholm, 2024.

Science blog author, Springer Nature Research Communities (Behind the paper). Title: **“**The double burden of inequality and flood losses”. 2023.

Invited talk, Lantmäteriet’s geodata user group Mark och Miljö. Title: “From global geodata to disaster risk management – a case study of income inequality and flood mortality”. Uppsala 2023.

Media coverage of research findings, including Aftonbladet and Trends-Tendances. 2023.

Press release author, Uppsala University. “Inequality leads to higher mortality during flood disasters” (English) / “Stora inkomstklyftor ger högre dödstal vid översvämningskatastrofer” (Swedish). 2023.

Science news article author, Advanced Science News. Title: “How global datasets can advance our understanding of a rapidly changing world”. 2020.

Pedagogical experience

Teaching	Taught across 10 courses at Uppsala University at BSc, MSc and PhD levels, in both Swedish and English. Experience includes lectures, seminars, and computer labs.
Supervision	Main supervisor for three MSc theses and three BSc theses at Uppsala University. Co-supervisor for two MSc theses at KTH.
Pedagogical training	Total of 10 weeks of pedagogical training at Uppsala University, including courses Supervising Doctoral Students, Supervision of Students for Degree Projects, and Academic Teacher Training.

Additional information

Primary analytical tool	R programming (advanced), including statistical analysis, geospatial data processing, and scientific visualization.
Languages	Swedish (native), English (full professional proficiency).
Parental leave	10 months in 2020–2021 and 10 months in 2017–2018.