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CURRICULUM VITAE

Name: Jan Freihardt

Date of Birth: 07-09-1992

Citizenship: German

Gender: Male

Current position

Postdoctoral Researcher at the Chair for Global Health Engineering, ETH Zurich, Clausiusstrasse 37, CH-8092 Zurich, Switzerland

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Education

PhD (2023) Center for Comparative and International Studies (CIS), ETH Zurich
Title “When the river breaks the land: Environmental (im)mobility among rural households in Bangladesh”, DOI: [10.3929/ethz-b-000646402](https://doi.org/10.3929/ethz-b-000646402).

Dissertation committee: Prof. Dr. Vally Koubi, Prof. Dr. Lukas Rudolph, Dr. Alex de Sherbinin, Prof. Dr. Nina von Uexkull.

Visiting Researcher (2023) Climate School, Columbia University, New York, USA

M.Sc. (2020) Science, Technology and Policy, ETH Zurich, Switzerland

M.Sc. (2018) Environmental Engineering, ETH Zurich, Switzerland

B.Sc. (2016) Environmental Sciences and Technology, TU Berlin, Germany

Research interests

Environmental migration, climate change adaptation, disaster risk communication, sustainable sanitation

Transformative and transdisciplinary science

Teaching Experience

2024: “International Engineering: from Hubris to Hope” (ETH Zurich, co-taught with Prof. E. Tilley & C. Walder)

2020: “Proseminar I: Politische Methodologie” (ETH Zurich, co-taught with D. Presberger).

Skills

Languages: German (native), English (C2), Dutch (C2), French (C1), Spanish (B2), Arabic (A2), Bangla (A1), Hindi (A1), Latin (Latinum), Ancient Greek (Graecum).

Computer languages: R, Javascript, MATLAB, JAVA, C.

Field research

Bangladesh: 2021, 2022, 2023, 2024.

Malawi: 2018.

South Africa: 2015.

Additional training

2024: MITx Online MOOC “Qualitative Research Methods: Data Coding and Analysis”.

2022: GESIS Workshop "Introduction to Event History Analysis".

2021: Essex Summer School in Social Science Data Analysis “Longitudinal Data Analysis”.

2020: ETH Winter School "Science meets Practice".

2019: ETH Singapore Month.

2018: ETH Winter School "Blockchain and the Internet of Things".

2017: ETH Cortona Week.

Grants and Scholarships

Swiss National Science Foundation (SNSF), PhD Scholarship, Project “Climate risk, land loss, and migration: Evidence from a quasi-experiment in Bangladesh”, 2019-2023.

German Academic Exchange Service (DAAD), Graduate Scholarship, 2016-2018.

Deutschlandstipendium, 2013-2015.

German Academic Exchange Service (DAAD), Program RISE, 2015.

Swiss-European Mobility Programme, 2014-2015.

Awards

2024: Jury distinction of the SNSF Scientific Image Competition 2024 for contribution “When the river breaks the land”.

2024: Special Mention (Non-Fiction) for documentary “Eroding Horizons: A Village On The Move” at Earth 360° Fest of Bangladesh Youth Environmental Initiative (BYEI).

Articles in Peer-Reviewed Journals

Freihardt, J., Buntaine, M., Bernauer, T. (2024): Choosing to protect: Public support for flood defense over relocation in climate change adaptation. *Environmental Research Letters* 19 104012. DOI: [10.1088/1748-9326/ad6781](https://doi.org/10.1088/1748-9326/ad6781).

Rudolph, L., Koubi, V., Freihardt, J. (2024): COVID-19 vaccination uptake in remote areas - Evidence from a panel survey in Bangladesh. *PLOS ONE* 19(8), e0305659. DOI: [10.1371/journal.pone.0305659](https://doi.org/10.1371/journal.pone.0305659).

Freihardt, J. (2024): Perceptions of environmental changes among a climate-vulnerable population from Bangladesh. *Climatic Change* 177, 25. DOI: [10.1007/s10584-024-03678-6](https://doi.org/10.1007/s10584-024-03678-6).

Freihardt, J. & Buchs, R. (2023): Framing effects in disaster risk communication: the case of coastal erosion in the United States. *Environmental Hazards*. DOI: [10.1080/17477891.2023.2280691](https://doi.org/10.1080/17477891.2023.2280691).

Freihardt, J. & Frey, O. (2023): Assessing riverbank erosion in Bangladesh using time series of Sentinel-1 radar imagery in the Google Earth Engine. *Natural Hazards and Earth System Sciences*, 23, 751-770. DOI: [10.5194/nhess-23-751-2023](https://doi.org/10.5194/nhess-23-751-2023).

Pearce, B., Dallo, I., Choi, V., Freihardt, J., Middel, C. (2022): Forks in the Road: Identifying key processes in stakeholder interaction with critical design moments. *GIA: Ecological Perspectives for Science and Society*, vol. 31: no. 4, pp. 222-230. DOI: [10.14512/gaia.31.4.6](https://doi.org/10.14512/gaia.31.4.6).

Freihardt, J. (2020). Can Citizen Science using social media inform sanitation planning? *Journal of Environmental Management*, 259, p. 110053. DOI: [10.1016/j.jenvman.2019.110053](https://doi.org/10.1016/j.jenvman.2019.110053).

Freihardt, J., Jekel, M. and Ruhl, A.S. (2017). Comparing test methods for granular activated carbon for organic micropollutant elimination. *Journal of Environmental Chemical Engineering* 5(3). DOI: [10.1016/j.jece.2017.05.002](https://doi.org/10.1016/j.jece.2017.05.002).

Book Publication

Freihardt, J. (2021). *Draußen ist es anders. Auf neuen Wegen zu einer Wissenschaft für den Wandel*. oekom, München.

Documentary Publication

Campert, A., Freihardt, J. (2024). *Eroding Horizons. A Village on the Move*. Available at: <https://www.youtube.com/watch?v=d44LCujw6pk>.

Other Publications

Swiss Expert Group for Citizen Science (2024). Citizen Science in Switzerland: Taking Stock and Ways into the Future. Available at: <https://zenodo.org/records/12751877>.

Freihardt, J. (2023). Millions On the Move? Unpacking the Climate-Migration Nexus. *Journal of International Affairs*. Available at: <https://jia.sipa.columbia.edu/news/millions-move-unpacking-climate-migration-nexus>.

Dallo, I., Freihardt, J., von Rothkirch, J. (2020). Six lessons from students about transdisciplinary learning. Available at: <https://i2insights.org/2020/10/06/students-on-transdisciplinary-learning/>.

Working Papers

Aggarwal, A., Freihardt, J.: A gendered perspective on environmental migration in Bangladesh (work in progress), 2024.

Rudolph, L., Freihardt, J., Koubi, V.: Neighbors' perspectives on incoming environmental migrants in rural Bangladesh (work in progress), 2024.

Thalheimer, L., et al.: Facing involuntary immobility: Prioritizing the marginalized in climate and disaster risk policy (under review), 2024.

Freihardt, J., Koubi, V.: The effect of recurrent and concurrent climate events on migration: Evidence from Bangladesh (work in progress), 2024.

Rudolph, L., Freihardt, J., Koubi, V.: Environmental change and migration aspirations: evidence from Bangladesh (under review), 2022.

Freihardt, J.: Environmental shocks and migration among climate-vulnerable populations in Bangladesh (under review), 2023.

Freihardt, J.: Trapped by climate change? Linking migration aspirations to actual moves among a climate-vulnerable population in Bangladesh (under review), 2023.

von Uexkull, N., Freihardt, J., Koubi, V.: Climate change impacts in Bangladesh - securitization, conflict and cooperation (work in progress), 2022.

Media Outreach

Süddeutsche Zeitung (31.08.2024): <https://www.sueddeutsche.de/projekte/artikel/wissen/klimaflucht-bangladesch-jamuna-e155165/?reduced=true>

Reportagen (05.2024): <https://reportagen.com/reportage/wenn-der-fluss-kommt/>

Water Stressed podcast (24.03.2024): <https://open.acast.com/public/streams/638b10408f875f00102f5aa8/episodes/660154257143f70017a27c6e.mp3>

Somoy TV (21.02.2024): <https://www.youtube.com/watch?v=LKSQ3iwhjTM>

Deutschlandfunk Nova (28.01.2024): https://share.deutschlandradio.de/dlf-audiothek-audio-teilen.html?mdm:audio_id=dira_DRW_7c8c33fe

Norddeutscher Rundfunk (13.01.2024): <https://www.ndr.de/nachrichten/info/Bangladesh-und-der-Klimawandel,audio1549170.html>

Neue Zürcher Zeitung (02./05.10.2023): <https://www.nzz.ch/wissenschaft/diese-menschen-leben-mit-der-staendigen-gefahr-alles-in-fluten-zu-verlieren-und-zeigen-wie-klima-migration-funktioniert-ld.1749807?reduced=true> / <https://www.nzz.ch/english/villages-along-flood-prone-river-offer-new-climate-migration-insights-ld.1759247>

Conference Participant

American Political Science Association (APSA): 2023.

Conference on Sustainable Development, Dhaka, Bangladesh, 2019.

Duck Family Graduate Workshop on Environmental Politics and Governance: 2023.

Environmental Politics and Governance (EPG): 2023, 2024.

European Political Science Association (EPSA): 2022, 2023.

Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS): 2023.

International Faecal Sludge Management Conference (FSM): 2019.

International Studies Association (ISA): 2023.

International Transdisciplinarity Conference (ITD): 2021.

Managed Retreat Conference: 2023.

Teaching and Learning for Change: Sustainability in Higher Education: 2023.

Transdisziplinarität als institutionelle Herausforderung für Universitäten, Berlin, Germany: 2021.

UN Climate Change Conference (COP): 2024 (Baku, Azerbaijan).

Workshops and Seminars (as facilitator)

Workshop for young lecturers on “Transforming our university teaching towards sustainability”, jointly organized with WWF, SDSN Switzerland & swiss young academy; Bern, Switzerland, 23.10.2024.

Kaleido Retreat, workshop on “Transformative Science”, Hasliberg, Switzerland, 06.09.2024.

ETH Zurich, workshop on “Transformative Science” as part of the “Teach Forward” series in collaboration with ETH LET, Zurich, 11.09.2023.

Alanus Hochschule für Kunst und Gesellschaft, guest lecturer in the seminar “Social Innovation”, online, 01.06.2023.

University of Zurich, School for Transdisciplinary Studies, guest lecturer in the seminar “Einführung in Citizen Science”, Zurich, 17.11.2022.

ETH Zurich, Student Sustainability Commission, workshop on “Transformative Science”, Zurich, 03.11.2022.

Selbstbestimmt Studieren e.V., workshop on “Transformative Science”, Salzderhelden, 01.11.2022.

ETH Zurich, guest lecturer in the seminar “Migration and Mobility”, Zurich, 29.04.2022.

Selbstbestimmt Studieren e.V., seminar on “Project Management”, Sonnerden, 25.-27.02.2022.

German Academic Exchange Service (DAAD), workshop on “Transformative Science”, online, 01.12.2021.

Scientists for Future Munich, workshop on “Transformative Science”, online, 25.11.2021.

ETH Zurich, GESS who!, workshop on “Transformative Science”, Zurich, 29.09.2021.

University of Zurich, Graduate Research Center, workshop on “Transformative Science”, online, 29.09.2021.

Friedrich-Ebert-Stiftung (FES), workshop on “Transformative Science”, online, 28.09.2021.

Stiftung der deutschen Wirtschaft (SDW), workshop on “Transformative Science”, online, 23.09.2021.

Congress “Science for Society”, workshop on “Transformative Science”, Kiel, 17.09.2021.

German Academic Exchange Service (DAAD), workshop on “Transformative Science”, online, 29.07.2021.

Evangelische Hochschule Freiburg, workshop on “Transformative Science”, online, 23.06.2021.

Universität Koblenz-Landau, workshop on “Transformative Science”, online, 02.06.2021.

RegioTransform Bayreuth, workshop on “Transformative Science”, online, 19.05.2021.

Bauhaus-Universität Weimar, guest lecturer in the lecture series »ClimateJustice Now! -Was kann der Beitrag unserer Universität zur Klimagerechtigkeit sein?«, online, 08.07.2020.

Bund für Umwelt und Naturschutz Deutschland e.V. (BUND) and Vereinigung für ökologische Wirtschaftsforschung e.V. (VÖW), seminar on "Transformative Wissenschaft - Vom Wissen zu Wirkung", Berlin, 03.-06.09.2019.

Bund für Umwelt und Naturschutz Deutschland e.V. (BUND), seminar on "Transformative Wissenschaften - Forschung für die und mit der Gesellschaft", Berlin, 29.06.-01.07.2018.

Bund für Umwelt und Naturschutz Deutschland e.V. (BUND), seminar on "Wissenschaft und NGOs - Herausforderungen und Chancen", Berlin, 16.-18.06.2017.

Other Workshops, Round-Tables, and Expert Meetings

Columbia University, course „Climate mobility“, talk on “A gendered perspective on environmental migration in Bangladesh“, 18.04.2024 (invited speaker).

Universität Lüneburg, MA Transformationsstudien, seminar „Transdisziplinäre Forschung“, talk on “Eine Wissenschaft für den Wandel? Das Problem des Wissenschaftssystems - und Wege zu einer transformativen Wissenschaft“, 16.04.2024 (invited speaker).

BUNDjugend, working group „Global Health and Migration“, talk on “Klimaflucht in Bangladesch und darüber hinaus“, 23.01.2024 (invited speaker).

ZAK Talks as part of the KIT Science Week, Symposium “Gesellschaft im Krisenmodus? Die Rolle von Wissenschaft, Politik und Journalismus in Nachhaltigkeitsdebatten“, 2023 (invited panelist).
https://www.youtube.com/watch?v=cbu86_IMzLs&list=PL0TmH52ybqle0F0KDj0fSX3oiX6e6XDh-&index=5

Columbia University, course „Climate mobility“, talk on “A gendered perspective on environmental migration in Bangladesh“, 20.04.2023 (invited speaker).

Caritas Switzerland seminar “MigrAction“, 25.09.2022 (invited speaker).

ScienceComm. Swiss annual congress for science communication, 2022 (invited panelist).

Amnesty International, Zurich English Group, The Climate Series 2022, panel on “Fleeing climate change and the gendered impacts“, 16.06.2022 (invited panelist).

ETH Zurich, workshops on “Scenarios for a desirable future of ecological infrastructure in Switzerland” as part of the project “ValPar.CH: Werte der Ökologischen Infrastruktur in Schweizer Pärken”, Zurich, March/May 2022 (invited expert).

Helvetas webinar “Migration and Climate Change”, online, 24.12.2021 (invited speaker).

Mensa in Deutschland, talk on “Transformative Science”, online, 15.09.2021 (invited speaker). <https://www.youtube.com/watch?v=YU1CYrZOzwQ>

Cusanus-Hochschule, panel discussion on “Transformative Science”, online, 06.05.2021 (invited speaker).

Global Young Scientists Summit (GYSS), online, 12.-15.01.2021 (participant).

Bund für Umwelt und Naturschutz Deutschland e.V. (BUND), Netzwerk Ressourcenwende, online, 09.09.2020 (invited speaker).

Professional activities

Chair: Wissenschaft(f)t Zukünfte e.V., 2020-present.

Member: Leadership Board, Global Alliance for Inter- and Transdisciplinarity (ITD Alliance), 2021-2023.

Member: Swiss Expert Group for Citizen Science: Contextual analysis, recommendation and roadmap, 2021-2024.

Coach & Mentor: Focus Sustainability BOOST Programme 2024.

Conference discussant and chair: European Political Science Association (EPSA).

Professional memberships: European Political Science Association (EPSA); American Political Science Association (APSA).

Reviewer: Journal of Peace Research; Frontiers in Sociology; Mitigation and Adaptation Strategies for Global Change; Population and Environment; PS: Political Science & Politics; Sustainable Environment; Urban Resilience and Sustainability; Water and Environment.