




Eric Samakinwa






Climate Scientist

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Education

- 2019 – 2023  **Ph.D., University of Bern** in Climate Sciences.
Thesis title: *Multi-annual Variability of the Ocean and Atmosphere during the Little Ice Age using models and reconstruction:*
Grade 5.5
- 2015 – 2018  **M.Sc. University of Bremen** in Environmental Physics.
Thesis title: *Modelling mid-Pliocene climate with COSMOS based on PlioMIP2 boundary conditions*
Grade 1.0
- 2007 – 2012  **B.Sc. Federal University of Technology, Akure** in Meteorology.
Thesis title: *Analyses of Urban Expansion and Land Surface Temperature in Akure, Nigeria*
Grade A

Employment History







- Oct. 2024 - present  **Scientist**, Climate Service Center Germany (GERICS).
- Feb. 2023 - Mar. 2024  **Early Postdoc**, Institute of Geography, Climatology group, University of Bern, Switzerland.
- Jan. 2020 – Jan. 2023  **Linux System Administrator**, Climatology & Climate Impact group, University of Bern, Switzerland.
 - Plan, configure & maintain the technical requirements of Linux infrastructure.
 - Level 3 support for 6 Linux physical servers & 55 Linux/Unix workstations.
- Feb. 2019 – Jan. 2023  **Doctoral Researcher**, Oeschger Center for Climate Change Research, University of Bern, Switzerland.
- Oct. 2018 – Dec. 2018  **Scientist**, Paleoclimate Dynamics, Alfred Wegener Institute, Bremerhaven, Germany.

Advanced Skills

- Languages  English (Native), German (A2)
- Coding  Shell scripting, Python, R, \LaTeX , Linux OS, Windows OS, Version Control,
- Misc.  Climate modeling, Data Assimilation, Climatology, Academic Research, Teaching, Training, consultation, Report, Documentation, Configuration Management

Miscellaneous Experience

Professional Certifications

- August 2022  **Linux Engineer LPIC-2**. Awarded by Linux Professional Institute.
- September 2021  **Introduction to High Performance Computing on Ubelix** Awarded by University of Bern.
 **Advanced High Performing Computer Topics** Awarded by University of Bern.
- January 2021  **Linux Administrator LPIC-1**. Awarded by Linux Professional Institute.
 **IT Service Management ITIL v4**. Awarded by Axelos Global Best Practice.
- July 2020  **Linux Essentials**. Awarded by Linux Professional Institute.

Technical Skills

Linux, Python, Shell, Version control (Git, Github), Incidence Management (ITIL), Containerization (Docker), Automation (Ansible), Virtualization (VMWare, vSphere, ESXi & vCenter)

Personal Skills

Time management, Goal oriented, Effective oral & written communication, Programming & Scripting, Adaptability, Flexibility, Strong work ethic, Flair for new technologies, Team player, Planning, Open-minded

Additional Skills

Troubleshoot NFS, DNS, & FTP servers, Monitor using cockpit, Install & configure RAID(z) at the hardware level, User management & Support, Documentation of procedures, Create & Manage ZFS arrays, Key-based authentication, Data center management, Linux Hardening, Performance reports, Resources optimization, Job scheduling, LDAP server configuration, Log monitoring, Backup & Recovery, Google dork, Network configuration, Firewalls/iptables, Configuration management, Redundancy planning

Membership in Scientific Societies

European Geosciences Union (EGU), American Geophysical Union (AGU), American Meteorological Society (AMS), Pliocene Modeling Intercomparison Project (PlioMIP), Past Global Changes (PAGES)

Awards and Recognition

Paper Of the Month, October 2021: Awarded by Oeschger Center for Climate Change Research

Teaching Experience

- 2024 Graduate Teaching Assistant (Course tutor) on Python for climate data analysis, Seminar in Climatology and Climate Impact, Spring Semester, 2024. University of Bern, Switzerland.
- 2022 Graduate Teaching Assistant (Course tutor) on Python for climate data analysis, Seminar in Climatology and Climate Impact, Spring Semester, 2022. University of Bern, Switzerland.
- 2019 Workshop leader on ENSO forecast verification methods, Bachelor summer school organized by the Oeschger Center for Climate Change Research. August 4 - August 16, 2019. ExWi building, University of Bern, Switzerland.

Conference Presentations

- 2023 Eric Samakinwa: Sea Surface Temperature Reconstructions. Mini-symposium: Global Climate of the Past Six Centuries, Bern. The oral presentation was given on the 10th of November, 2023.
- 2023 Eric Samakinwa, Christoph Riabie, Ralf Hand, Andrew Friedman, and Stefan Brönnimann: Multi-annual variability of a new proxy-constrained modeled AMOC from 1450-1780 CE. European Geosciences Union Assembly, Vienna, 27th of April, 2023.
- 2022 Samakinwa E., Valler, V., Hand, R., and Brönnimann, S.: Global monthly sea surface temperature and sea ice reconstruction for historical AGCM simulation. European Geosciences Union, Vienna, 23rd of May, 2022.
- 2022 Samakinwa, E., Raible C., and Brönnimann S.: On The Different Mechanisms Of Inter-annual AMOC Variability Under Stable Atmospheric CO₂ Forcing. Swiss Geosciences Meeting, University of Lausanne, 19 November, 2022.
- 2021 Eric Samakinwa, 19th Swiss Climate Summer School "Vegetation, Land Surface and Climate Interactions" 29 August – 03 September 2021, Congressi Stefano Franscini, Monte Verità, Ascona, Switzerland.
- 2020 Samakinwa, E., and Brönnimann, S.: Global monthly sea surface temperature and sea ice reconstruction for historical simulations. European Geosciences Union, Virtual presentation on 8th of May, 2020.
- 2019 Samakinwa E., Stepanek, C., Lohmann, G.: Sensitivity of Mid-Pliocene climate to changes in boundary condition: lessons from COSMOS within PlioMIP. European Geosciences Union, Vienna, 11th of April, 2019.

Publications

- 2025 Brönnimann, S., Franke, J., Valler, V., Hand, R., **Samakinwa E.**, Lundstad, E., Burgdorf, A.M. and Lipfert, L.: Past hydroclimate extremes in Europe driven by Atlantic jet stream and recurrent weather patterns. *Nature Geoscience*, **18**, 246–253 <https://doi.org/10.1038/s41561-025-01654-y>, 2025).
- 2024 Brönnimann S., Brugnara Y., Burgdorf A., Franke J., Hand R., Lipfert L., Lundstad E., **Samakinwa, E.** and Valler V.: A palaeo-reanalysis of global monthly 3D climate since 1421 CE. *Past Global Changes Magazine*, **32**(1), 42-43, <https://doi.org/10.22498/pages.32.1.42>, 2024.
- 2024 Valler, V., Franke, J., Brugnara, Y., **Samakinwa, E.** et al. ModE-RA: a global monthly paleo-reanalysis of the modern era 1421 to 2008. *Sci Data* **11**, 36, <https://doi.org/10.1038/s41597-023-02733-8>, 2024.
- 2023 **Samakinwa, E.**, Raible, C., Hand, R., Friedman, A., Brönnimann, S.: Multi-annual variability of a new-proxy constrained modeled AMOC from 1450 – 1780. *Clim. Past Discuss.* <https://doi.org/10.5194/cp-2023-67>, 2023.
- 2023 Hand, R., **Samakinwa, E.**, Lipfert, L., and Brönnimann, S.: ModE-Sim – a medium-sized atmospheric general circulation model (AGCM) ensemble to study climate variability during the modern era (1420 to 2009), *Geosci. Model Dev.*, <https://doi.org/10.5194/gmd-16-4853-2023>, 2023.
- 2023 Lundstad, E., Brugnara, Y., Pappert, D., Kopp, J., **Samakinwa, E.** et al.: The global historical climate database HCLIM. *Sci Data*, **10**, 44, <https://doi.org/10.1038/s41597-022-01919-w>, 2023.
- 2022 Reichen, L., Burgdorf, AM., Brönnimann, S., Franke, J., Hand, R., Valler, V., **Samakinwa, E.**, Brugnara, Y., & Rutishauser, T.: A decade of cold Eurasian winters reconstructed for the early 19th century. *Nat Commun*, **13**, 2116, <https://doi.org/10.1038/s41467-022-29677-8>, 2022.
- 2021 **Samakinwa, E.**, Valler, V., Hand, R., Neukom, R., Gómez-Navarro, J., Kennedy, J., Rayner, N., & Brönnimann, S.: An ensemble reconstruction of global monthly sea surface temperature and sea ice concentration 1000–1849. *Sci. Data*, **8**, 261, <https://doi.org/10.1038/s41597-021-01043-1>, 2021.
- 2020 **Samakinwa, E.**, Stepanek, C., Lohmann, G.: Sensitivity of mid-Pliocene climate to changes in orbital forcing and PlioMIP's boundary conditions, *Clim. Past*, **16**, 1643–1665, <https://doi.org/10.5194/cp-16-1643-2020>, 2020.
- 2020 Stepanek, C., **Samakinwa, E.**, Knorr, G., and Lohmann, G.: Contribution of the coupled atmosphere-ocean-sea ice-vegetation model COSMOS to the PlioMIP2, *Clim. Past*, **16**, 2275–2323, <https://doi.org/10.5194/cp-16-2275-2020>, 2020.
- 2015 **Samakinwa, E.** and Balogun, I.: Geospatial Assessment of Urban Expansion and Land Surface Temperature in Akure, Nigeria, *ICUC9 - 9th International Conference on Urban Climate jointly with 12th Symposium on the Urban Environment*. http://www.meteo.fr/icuc9/LongAbstracts/poster_11-5-2631120_a.pdf, 2015.
- 2013 Aderoju, O., **Samakinwa, E.**, Dris, I.: An Assessment of Urban Heat Island in Akure Using Geospatial Techniques. *IOSR Journal of Environmental Science, Toxicology and Food Technology*. <https://doi.org/10.9790/2402-0632434>, 2013.