Patrick Thomson CURRICULUM VITAE

Education

PhD in Environmental Science (part-time 2013-2021)

School of Archaeology, Geography and Environmental Science, University of Reading. Dissertation: "Handpump maintenance, water use, and health in rural Kenya."

MSc in Water Science, Policy, and Management (2010-2011)

School of Geography and the Environment, University of Oxford.

Dissertation: "GSM-enabled remote monitoring of rural handpumps."

MEng in Engineering, Economics, and Management (1997-2001)

Department of Engineering Science, University of Oxford.

Dissertation: "Examining cultural factors in a large multi-country engineering project."

Research Employment

Arizona State University, Tempe, USA

Research Scientist, Arizona Water Innovation Initiative (2025-current)

University of Oxford, Oxford, UK

Senior Research Associate¹, School of Geography and the Environment (2021-2025)

Senior Research Associate, Department of Engineering Science (2023-2025)

Lead Researcher², Smith School of Enterprise and the Environment (2015-2021)

Researcher³, School of Geography and the Environment (2011-2015)

US equivalent: ¹Assistant Professor (Research); ²Postdoctoral Researcher; ³Research Assistant (Full-time).

Research Summary

Research statistics as of July 2025 (Google Scholar):

Citations: 1,347 h-index: 20 i10-index 27

Publications: 35 journal articles, 4 chapters, 11 policy working papers, 8 conference proceedings. Grant funding: \$34,236,000 total over 16 grants awarded.

Selected Awards

- Oxford Social Sciences Division Innovation Fellow (2020-2022)
- Oxford University Vice-Chancellor's inaugural Innovation Award (2018)
- Stockholm World Water Week Best Poster (2015)
- School of Geography and the Environment Reward and Recognition scheme Award for Excellence (2013)
- Worshipful Company of Water Conservators scholarship for MSc in Water Science, Policy, and Management (2010-2011)

Publications

Peer-reviewed articles

sa student/postdoc author; ca consortium authorship

- 35. Wutich, A., Brewis, A., **Thomson, P.**, Beresford, M., White, D., & Arizona Water for All Consortium (In Press). Ethical Challenges of Managing Retreat from Centralized Water Systems. Human Organization. 84 (3). Taylor and Francis.
- 34. SA Cropper, C., Wulbrecht, E., **Thomson, P.**, Dotson, A. D., Hamilton, K. A., Wutich, A., Westerhoff, P., & Voth-Gaddert, L. E. (2025). When the Household is the Utility: Ensuring Equitable Water Service for Rural US Communities Served by Decentralized Water Systems. ACS ES&T Water, 5(6). ACS Publications.
- 33. Stellbauer, M., Jepson, W., Lefore, N., & Thomson, P. (2025). Advancing Multiple-Use Water Services for Development in Low-and Middle-Income Countries. Wiley Interdisciplinary Reviews: Water, 12(1), e70008. John Wiley & Sons, Inc. Hoboken, USA.
- 32. **Thomson, P.**, Pearson, A. L., Kumpel, E., Guzmán, D. B., Workman, C. L., Fuente, D., Wutich, A., Stoler, J., & Household Water Insecurity Experiences Research Coordination Network (HWISE-RCN) (2024). Water Supply Interruptions Are Associated with More Frequent Stressful Behaviors and Emotions but Mitigated by Predictability: A Multisite Study. Environmental Science & Technology, 58(16), 7010-7019. American Chemical Society.
- 31. SA Ingram, W., Nyaga, C., Mugo, P., Kavata, A., Gannon, K., & **Thomson, P.** (2024). Maintaining groundwater collection over the rainy season with water ATM price reductions: a study in Kitui County, Kenya. Journal of Water, Sanitation and Hygiene for Development, 14(9), 808-818. IWA Publishing.
- 30. SA Wallock, W., Narayan, A. S., & **Thomson, P.** (2024). Exploring the Barriers to Scaling Up Sanitation Enterprises Using Q-Methodology. ACS ES&T Water, 4(9), 3986-3995. American Chemical Society.
- 29. ^{ca} Castro-Diaz, L., Roque, A., Wutich, A., Landes, L., Li, W., Larson, R., Westerhoff, P., Marcos-Hernandez, M., Hossain, M. J., & Tsai, Y. (2024). Participatory Convergence: Integrating Convergence and Participatory Action Research. Minerva, , 1-21. Springer.
- 28. **Thomson, P.**, Stoler, J., Byford, M., & Bradley, D. J. (2024). The Impact of Rapid Handpump Repairs on Diarrhea Morbidity in Children: Cross-Sectional Study in Kwale County, Kenya. JMIR Public Health and Surveillance, 10(1), e42462. JMIR Publications Inc., Toronto, Canada.
- 27. Nyaga, C., Katuva, J., & **Thomson, P.** (2024). The challenges of implementing modular, adaptive, and decentralised water technologies—The perspective of a rural service provider in Kenya. Water Security, 21, 100160. Elsevier.
- 26. **Thomson, P.**, Stoler, J., Wutich, A., & Westerhoff, P. (2024). MAD water (modular, adaptive, decentralized) systems: New approaches for overcoming challenges to global water security. Water Security, 21, 100166.
- 25. Wutich, A., **Thomson, P.**, Jepson, W., Stoler, J., Cooperman, A. D., Doss-Gollin, J., Jantrania, A., Mayer, A., Nelson-Nuñez, J., & Walker, W. S. (2023). MAD water: Integrating modular, adaptive, and decentralized approaches for water security in the climate change era. Wiley Interdisciplinary Reviews: Water, 10(6), e1680. John Wiley & Sons, Inc. Hoboken, USA.
- 24. SA Ingram, W. & **Thomson, P.** (2022). Incentivizing clean water collection during rainfall to reduce disease in rural sub-Saharan Africa with weather dependent pricing. Waterlines, 41(2). Practical Action Publishing.

- 23. Stoler, J., Jepson, W., Wutich, A., Velasco, C. A., **Thomson, P.**, Staddon, C., & Westerhoff, P. (2022). Modular, adaptive, and decentralized water infrastructure: promises and perils for water justice. Current Opinion in Environmental Sustainability, 57, 101202. Elsevier.
- 22. Wutich, A., Jepson, W. E., Stoler, J., **Thomson, P.**, Kooy, M., Brewis, A., Staddon, C., & Meehan, K. (2021). A Global Agenda for Household Water Security: Measurement, Monitoring, and Management. JAWRA Journal of the American Water Resources Association, 1-9.
- 21. **Thomson, P.** (2021). Remote monitoring of rural water systems: A pathway to improved performance and sustainability? Wiley Interdisciplinary Reviews: Water, 8(2), e1502. John Wiley & Sons, Inc. Hoboken, USA.
- 20. Koehler, J., **Thomson, P.**, Goodall, S., Katuva, J., & Hope, R. (2021). Institutional pluralism and water user behavior in rural Africa. World Development, 140, 105231. Pergamon.
- 19. SA Katuva, J., Hope, R., Foster, T., Koehler, J., & **Thomson, P.** (2020). Modelling Welfare Transitions to Prioritise Sustainable Development Interventions in Coastal Kenya. Sustainability, 12(17), 6943. Multidisciplinary Digital Publishing Institute.
- 18. Thomas, E., Jordan, E., Linden, K., Mogesse, B., Hailu, T., Jirma, H., **Thomson, P.**, Koehler, J., & Collins, G. (2020). Reducing drought emergencies in the Horn of Africa. Science of The Total Environment, 727, 138772. Elsevier.
- 17. SA Katuva, J., Hope, R., Foster, T., Koehler, J., & **Thomson, P.** (2020). Groundwater and Welfare: A conceptual framework applied to Coastal Kenya. Groundwater for Sustainable Development, 10, 100314. Elsevier.
- 16. SA Ramos, N. F., Folch, A., Fernàndez-Garcia, D., Lane, M., Thomas, M., Gathenya, J. M., Wara, C., **Thomson, P.**, Custodio, E., & Hope, R. (2020). Evidence of groundwater vulnerability to climate variability and economic growth in coastal Kenya. Journal of Hydrology, 586, 124920. Elsevier.
- 15. Hope, R., **Thomson, P.**, Koehler, J., & Foster, T. (2020). Rethinking the economics of rural water in Africa. Oxford Review of Economic Policy, 36(1), 171-190. Oxford University Press UK.
- 14. Manandhar, A., Greeff, H., **Thomson, P.**, Hope, R., & Clifton, D. A. (2020). Shallow aquifer monitoring using handpump vibration data. Journal of Hydrology X, 8, 100057. Elsevier.
- 13. SA Nowicki, S., Lapworth, D. J., Ward, J. S., **Thomson, P.**, & Charles, K. (2019). Tryptophan-like fluorescence as a measure of microbial contamination risk in groundwater. Science of the Total Environment, 646, 782-791. Elsevier.
- 12. SA Ferrer, N., Folch, A., Lane, M., Olago, D., Katuva, J., **Thomson, P.**, Jou, S., Hope, R., & Custodio, E. (2019). How does water-reliant industry affect groundwater systems in coastal Kenya? Science of the Total Environment, 694, 133634. Elsevier.
- 11. Sharma, P., Manandhar, A., **Thomson, P.**, Katuva, J., Hope, R., & Clifton, D. A. (2019). Combining Multi-Modal Statistics for Welfare Prediction Using Deep Learning. Sustainability, 11(22), 6312. Multidisciplinary Digital Publishing Institute.
- 10. **Thomson, P.**, Bradley, D., Katilu, A., Katuva, J., Lanzoni, M., Koehler, J., & Hope, R. (2019). Rainfall and groundwater use in rural Kenya. Science of The Total Environment, 649, 722-730. Elsevier.
- 9. SA Greeff, H., Manandhar, A., **Thomson, P.**, Hope, R., & Clifton, D. A. (2018). Distributed Inference Condition Monitoring System for Rural Infrastructure in the Developing World. IEEE Sensors Journal, 19(5), 1820-1828.
- 8. SA Koehler, J., Rayner, S., Katuva, J., **Thomson, P.**, & Hope, R. (2018). A cultural theory of drinking water risks, values and institutional change. Global Environmental Change, 50, 268-277. Elsevier.

- 7. SA Foster, T., Willetts, J., Lane, M., **Thomson, P.**, Katuva, J., & Hope, R. (2018). Risk factors associated with rural water supply failure: A 30-year retrospective study of handpumps on the south coast of Kenya. Science of The Total Environment, 626, 156-164. Elsevier.
- 6. SA Colchester, F. E., Marais, H. G., **Thomson, P.**, Hope, R., & Clifton, D. A. (2017). Accidental infrastructure for groundwater monitoring in Africa. Environmental Modelling & Software, 91, 241-250. Elsevier.
- 5. **Thomson, P.** & Koehler, J. (2016). Performance-oriented Monitoring for the Water SDG–Challenges, Tensions and Opportunities. Aquatic Procedia, 6, 87-95. Elsevier.
- 4. Sa Koehler, J., **Thomson, P.**, & Hope, R. (2015). Pump-Priming Payments for Sustainable Water Services in Rural Africa. World Development, 74, 397-411. Elsevier.
- 3. **Thomson, P.**, Hope, R., & Foster, T. (2012). GSM-enabled remote monitoring of rural handpumps: a proof-of-concept study. Journal of Hydroinformatics, 14(4), 829-839. IWA Publishing.
- 2. Hope, R., Foster, T., & **Thomson, P.** (2012). Reducing Risks to Rural Water Security in Africa. AMBIO: A Journal of the Human Environment, 1-4. Springer.
- 1. **Thomson, P.**, Hope, R. A., & Foster, T. (2012). Is silence golden? Of mobiles, monitoring, and rural water supplies. Waterlines, 31(4), 280-292. Practical Action Publishing.

Book chapters

- 4. Hope, R., Foster, T., Koehler, J., & **Thomson, P.** (2019). Rural Water Policy in Africa and Asia. Water Science, Policy, and Management: A Global Challenge, 2016, 159-179. John Wiley & Sons, Ltd Chichester, UK.
- 3. Dadson, S. J., Hirpa, F., **Thomson, P.**, & Konar, M. (2019). Monitoring and Modelling Hydrological Processes. Water Science, Policy, and Management: A Global Challenge, 2017, 117-137. John Wiley & Sons, Ltd Chichester, UK.
- 2. Charles, K. J., Nowicki, S., **Thomson, P.**, & Bradley, D. (2019). Water and Health: A Dynamic, Enduring Challenge. Water Science, Policy, and Management: A Global Challenge, 2016, 97-116. John Wiley & Sons, Ltd Chichester, UK.
- 1. Koehler, J., **Thomson, P.**, & Hope, R. (2016). Mobilizing payments for water service sustainability. Broken Pumps and Promises: Incentivizing Impact in Environmental Health, 2016, 57-76. Springer International Publishing.

Conference proceedings

- 8. SA Ingram, W. & Thomson, P. (2022). Reducing Rainfall-Related Disease in Rural Sub-Saharan Africa by Adjusting Water Price with 'Water ATMs' During Periods of Rainfall, Providing a Dynamic Health Intervention to Climate Variability. AGU Fall Meeting, 2022, GH11C-01.
- 7. **Thomson, P.**, Greeff, H., Nyaga, C., Katuva, J., & Ingram, W. (2022). Predicting Pump Failures to Reduce Water-Related Diseases and Improve Household Water Security. AGU Fall Meeting, 2022, GH15D-0476.
- 6. Thomas, E. & **Thomson, P.** (2019). Groundwater use and weather extremes-implications for the future? AGU Fall Meeting, 2019, IN41A-03.
- 5. SA Ferrer Ramos, N., Folch, A., Lane, M., Olago, D., Odida, J., Custodio, E., **Thomson, P.**, Katuva, J., & Hope, R. (2019). The effect of La Niña 2016-2017 and the current abstraction regime on diverse water-reliant companies in Kwale groundwater resources (Coastal Kenya). 46th Annual Congress of the International Association of Hydrogeologists, 2019, 275-275.
- 4. SA Ferrer, N., Folch, A., Lane, M., Thomas, M., Sasaka, W., Wara, C., Banje, S., Olago, D., Katuva, J., & **Thomson, P.** (2016). First step to understand the importance of new deep aquifer

- pumping regime in groundwater system in a developing country, Kwale, Kenya. EGU General Assembly Conference Abstracts, 2016, EPSC2016-16969.
- 3. SA Papastylianou, T., Behar, J., Guazzi, A., Jorge, J., Laranjeira, S., Maraci, M., Clifford, G., Hope, R., & **Thomson, P.** (2014). Smart handpumps: technical aspects of a one-year field trial in rural Kenya. Appropriate Healthcare Technologies for Low Resource Settings (AHT 2014), 9. IET Stevenage UK.
- 2. SA Colchester, F. E., Greeff, H., **Thomson, P.**, Hope, R., & Clifton, D. A. (2014). Smart handpumps: A preliminary data analysis. Appropriate Healthcare Technologies for Low Resource Settings (AHT 2014), 2014, 1-4. IET.
- sA Behar, J., Guazzi, A., Jorge, J., Laranjeira, S., Maraci, M., Papastylianou, T., Thomson, P., Clifford, G., & Hope, R. (2013). Software architecture to monitor handpump performance in rural Kenya. Proceedings of the 12th International Conference on Social Implications of Computers in Developing Countries, Ocho Rios, Jamaica, 991, 978-991.

Policy working papers

- 11. Jepson, W., Stellbauer, M., & **Thomson, P.** (2023). Revaluing multiple-use water services for food and water security. FAO Land and Water Discussion Paper, 19.
- 10. Foster, T., Hope, R., Koehler, J., Katuva, J., **Thomson, P.**, & Gladstone, N. (2022). Investing in professionalized maintenance to increase social and economic returns from drinking water infrastructure in rural Kenya. University of Oxford.
- 9. Fischer, A., Hope, R., **Thomson, P.**, Hoque, S., Alam, M., Charles, K., Achi, N., Nowicki, S., Hakim, S., & Islam, M. (2021). Policy reform to deliver safely managed drinking water services for schools in rural Bangladesh. University of Oxford.
- 8. Hoque, S., Hope, R., Alam, M. M., Charles, K., Salehin, M., Mahmud, Z. H., Akhter, T., Fischer, A., Johnston, D., **Thomson, P.**, Zakaria, A., Hall, J., Roman, O., El Achi, N. & Jumlad, M.M. (2021). Drinking water services in coastal Bangladesh. University of Oxford.
- 7. McNicholl, D., Hope, R., Money, A., Lane, A., Armstrong, A., Dupuis, M., Harvey, A., Nyaga, C., Womble, S., Allen, J., Katuva J., Barbotte, T., Lambert, L., Stuab, M., **Thomson, P.**, & Koehler, J. (2021). Delivering global rural water services through results-based contracts. University of Oxford.
- 6. Hope, R., Fischer, A., **Thomson, P.**, Hoque, S. F., Alam, M. M., Charles, K., El Achi, N., Nowicki, S., Hakin, S, Islam, M., Salehin, M., Bradley, D., Ibrahim, M., Chowdhury, E. H., Salehin, M., Mahmud, Z. H., & Akhter, T. (2021). Policy reform for safe drinking water service delivery in rural Bangladesh. REACH Working Paper, 9. University of Oxford.
- 5. McNicholl, D., Hope, R., Money, A., Lane, A., Armstrong, A., Van Der Wilk, N., Dupuis, M., Harvey, A., Nyaga, C., Womble, S., Favre, D., Allen, J., Katuva, J., Barbotte, E., **Thomson, P.**, & Koehler, J. (2019). Performance-based funding for reliable rural water services in Africa. University of Oxford.
- 4. Hope, R., Goodall, S., Katilu, A., Koehler, J., & **Thomson, P.** (2015). Financial Sustainability for Universal Rural Water Services–Evidence from Kyuso, Kenya. University of Oxford.
- 3. Olago, D., Opondo, M., Mumma, A., Ouma, G., Dulo, S., Trevett, A., Harvey, P., Hope, R., Stallone, A., Koehler, J., Katava J., James, R., Washington, R., Bradely, D., Cheeseman, N., Borgomeo, E., Charles, K., & **Thomson, P.** (2015). Country diagnostic report, Kenya. Dept. for International Development.
- 2. **Thomson, P.**, Koehler, J., & Hope, R. (2014). Can Mobile Data Improve Rural Water Institutions in Rural Africa? GWF Discussion Paper 1414, Global Water Forum, Canberra, Australia. 2014.
- 1. Hope, R., **Thomson, P.**, Koehler, J., Foster, T., & Thomas, M. (2014). From rights to results in rural water services–Evidence from Kenya. University of Oxford.

Invited presentations

- 8. Next Generation Water Summit, Santa Fe, USA (2024).
- 7. Arizona State University Centre for Global Health, Phoenix, USA (2021).
- 6. Instituto Para El Dialogo Global y La Cultura Del Encuentro, Argentina/Online (2020).
- 5. Commonwealth Scientific and Industrial Research Organisation, Canberra, Australia (2020).
- 4. TEDx Oxford, Oxford, UK (2020) https://www.youtube.com/watch?v=XGQQSA5KooM.
- 3. Expert panel at the "International Conference on Water Security: New Technologies, Strategies, Policies and Institutions", Chinese Academy of Sciences, Beijing, China (2019).
- 2. Chair of the "Novel sampling, analysis, and monitoring techniques" session at IAH 2018 Congress, Daejeon, South Korea (2018).
- 1. Chair of the water session at the Royal Academy of Engineering's "Frontiers of Engineering for Development" conference, Edinburgh, UK (2017).

Research Grants

- 16. "Ensuring the Impact of Social Science Research into Rural Water Provision" (2023)
 UK Economic and Social Research Council (PI). \$24,290
- 15. "Supporting rural water supply policy innovation in Namibia" (2023)
 University of Oxford (PI). \$26,430
- 14. "Harnessing data from water 'ATMs' to improve community health in rural Kenya" (2023) UK Engineering and Physical Sciences Research Council² (PI). \$29,910
- 13. "Water Learning Partnership, Cameroon" (2020-2023)

 UK Economic and Social Research Council¹ (PI). \$29,960
- 12. "Smart Handpumps (Failure Prediction)" (2021-2022)
 - UK Engineering and Physical Sciences Research Council² (PI). \$103,990
- 11. "Digital Africa Water Network" (2020-2021)
 - UK Global Challenges Research Fund⁴ (Co-I). \$195,510
- 10. "Smart Handpumps (Plug and Play)" (2019-2020)
 - UK Global Challenges Research Fund⁴ (PI). \$62,240
- 9. "Smart Handpumps" (2018)
 - UK Global Challenges Research Fund⁴ (PI). \$93,770
- 8. "Engineering innovations to predict handpump failure" (2016-208)
 - UNICEF Supply Division (Co-I). \$220,000
- 7. "REACH: Improving Water Security for The Poor" (2015-2023)
 - UK Foreign Commonwealth and Development⁵ (Lead Researcher) \$29,879,100
- 6. "Groundwater Risk for Growth and Development" (2015-2020)
 - UK Natural Environment Research Council (Co-I)³. \$2,329,420
- 5. "Rural Water Sustainability in Africa" (2014-2016)
 - UNICEF Eastern and Southern Africa Regional Office (Co-I). \$325,000
- 4. "Insuring against Rural Water Risk in Africa" (2013-2016)
 - UK Economic and Social Research Council¹ (Lead Researcher). \$114,380
- 3. "Groundwater Risks and Institutional Responses for Poverty Reduction" (2013-2016)
 - UK Natural Environment Research Council (Lead Researcher)³. \$176,900
- 2. "New Mobile Citizens and Waterpoint Sustainability in Africa" (2012-2015)
 - UK Economic and Social Research Council¹ (Lead Researcher). \$558,600
- 1. "Mobile Water Science for Global Development Impacts" (2012-2013)
 - University of Oxford (Lead Researcher). \$66,500k

US equivalent agencies: ¹NSF (SBE); ²NSF (ENG/MPS); ³NSF(GEO); ⁴NSF(OISE); ⁵USAID.

Teaching, Mentorship, and Supervision

Teaching

School of Geography and the Environment, University of Oxford, UK Courses in MSc Water Science, Policy, and Management

- Water Management (2020-2023)
- Water and Health (2020-2022)
- Water Quality (2016-2023)

Department of Engineering Science, University of Oxford, UK Courses in EPSRC Centre for Doctoral Training in Health Data Science

• Al for Healthcare (2023-2024)

PhD students (Committee Co-chair or Member)

- Arif Chowdhury, Environmental Social Sciences, Arizona State University
- Jobayer Hossain, Environmental Social Sciences, Arizona State University
- Faojia Sultana, Nuffield Department of Medicine, University of Oxford
- Heloise Greeff, Department of Engineering Science, University of Oxford
- Farah Colchester, Department of Engineering Science, University of Oxford

PhD students (Research Mentor)

- Alex Fischer, School of Geography and the Environment, University of Oxford
- Johanna Koehler, School of Geography and the Environment, University of Oxford
- Jacob Katuva, School of Geography and the Environment, University of Oxford
- Saskia Nowicki, School of Geography and the Environment, University of Oxford

MSc students (Thesis Advisor)

- William Wallock, School of Geography and the Environment, University of Oxford
- Eloise Charreyron, School of Geography and the Environment, University of Oxford
- Jenny Wells, School of Geography and the Environment, University of Oxford
- Nadia Abdalla, School of Geography and the Environment, University of Oxford
- Saskia Nowicki, School of Geography and the Environment, University of Oxford

Service

- Wiley WIREs Water Associate Editor (2025-current)
- Massachusetts Institute of Technology research external grant reviewer (2023)
- Oxford University Institute of Biomedical Engineering Research Panel (2023-2025)
- University of Oxford Social Science and Humanities Interdepartmental Research Ethics Committee (2023-2025) [Divisional Institutional Review Board]
- University of Oxford School of Geography and the Environment Departmental Research Ethics Committee (2022-2025) [Departmental Institutional Review Board]
- University of Oxford Social Sciences Division grant review committee (2020-2022)
- University of Oxford School of Geography and the Environment Equality and Diversity Committee (2019-2021)
- FundiFix Water Services Trust (2014-current)

Media and science communication

Television Interviews:

- ITV Meridian News (Independent TV regional news).
- BBC South Today (BBC regional news).

Radio interviews:

- BBC R4 Today (Flagship morning news/politics show).
- BBC Naked Scientist (Quirky, buried-in-the-schedule science program).

Print media:

- Economist (UK/Global).
- Daily Nation (Kenya).
- Africa Renewal (UN in-house magazine).

Policy impact:

- FAO Land and Water Discussion Paper.
- UK FCDO Ministerial briefing document.
- WASREB (Kenya) annual report.

Memberships and affiliations

- Chartered Engineer (UK equivalent to Professional Engineer).
- Member of the Institution of Engineering and Technology (UK professional body).
- Member of the American Association of Geographers inc. its Water Insecurity CoP.
- Faculty Associate at the Mortenson Center in Global Engineering at CU Boulder (past).
- Research Affiliate at University of Nairobi Department of Earth and Climate Sciences (past).