

Staff profile

Name: Dr. Cyrus M. Kavwele

Designation: Tutorial Fellow

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School: School of Natural Resources and Environmental Studies

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Bibliography:

Mr. Cyrus M. Kavwele is a Tutorial Fellow in the Department of Natural Resources at the School of Natural Resources and Environmental Studies, a position he has held since 2018. Prior to this role, Cyrus served as a Graduate Assistant in the same department from 2015 to 2018. Cyrus completed his Ph.D. at the University of Glasgow, United Kingdom. He also holds an MSc. in Wildlife Management and a BSc. in Natural Resources Management (Wildlife Management Option), both awarded by Karatina University, Kenya.

Cyrus is a wildlife ecologist with broad interests in spatial ecology, movement ecology, collective behaviour, and the application of machine learning and artificial intelligence in conservation of biodiversity. He enjoys linking theories with fine-scale big data to understand animal responses to human-induced perturbations. He has also published in peer reviewed journals and presented research findings in both local and international conferences.

Area of specialisation: Wildlife ecology

Research interests: Collective behaviour, movement ecology, spatial ecology, remote sensing and GIS, Machine learning and artificial intelligence

Peer reviewed publications

Kavwele, C. M., Hopcraft, J. G. C., Davy, D., Juan Morales., Gerald Nyaffi., Nancy Kimuya & Torney, J.C. (2024). Real-time classification of Serengeti wildebeest behaviour with edge machine learning and a long-range IoT network. *Canadian Journal of Zoology* (*In review*)

Kamaru, N. D., Palmer, M. T., Riginos, C., Ford, T. A., Belnap, J., Chira, M. R., Githaiga, M. J., Gituku, C. B., Hays, R. B., **Kavwele, C. M.,** Kibungei, K. A., Lamb, T. C., Maiyo, J. N., Milligan, D. P., Mutisya, S., Ng'weno, C. C., Ogutu, M., Pietrek, G.A., Wildt, T. B & Goheen, R. J (2024). Disruption of an ant-plant mutualism shapes interactions between lions and their primary prey. <https://doi.org/10.1126/science.adg1464>

Kavwele, C. M., Hopcraft, J. G. C., Davy, D & Torney, J.C. (2024). Automated and repeated observations of GPS-collared animals using UAVs and open-source electronics. <https://doi.org/10.1002/ecs2.4841>

Cornu, L., Broekhuis, F., **Kavwele, C. M.,** Mogensen, N., Sakat., D & Briefer, F. E (2023).

Coexisting with Carnivores: Examining local attitudes towards African wild dogs (*Lycan pictus*) in the Maasai Mara, Kenya. <https://doi.org/10.1080/10871209.2023.2294070>

Kavwele, C. M., Torney, J.C., Morrison, T. A., Fulford, S., Masolele, M., Masoy, J & Hopcraft, J. G. C. (2022). Non-local effects of human activity on the spatial distribution of migratory wildlife in Serengeti National Park, Tanzania. *Ecological Solutions and Evidence*. <https://doi.org/10.1002/2688-8319.12159>

Kavwele, C. M., Kimanzi, J. K., & Kinyanjui, M. J. (2017). Impacts of Bush Encroachment on Wildlife Species Diversity, Composition, and Habitat Preference in Ol Pejeta Conservancy, Laikipia, Kenya, 2017. *International Journal of Ecology*. <https://doi.org/10.1155/2017/5620125>

Kavwele, C. M., Kinyanjui, M.J & Kimanzi, J.K. (2017) Time Series Monitoring of Bush Encroachment by *Euclea divinorum* in Ol Pejeta Conservancy Laikipia, Kenya. *International Journal of Natural Resource Ecology and Management*. Vol. 2, No. 5, 2017, pp. 85-93. <https://doi.org/10.11648/j.ijnrem.20170205.11>