Peter Kabano

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Education

09/2015 to 09/2019 **PhD in Geography**, University of Manchester
Dissertation: 'Investigating the Influence of tropical urban climates on vegetation phenology'

09/2012 – 09/2013 **MSc in Geographical Information Sciences (GIS),** University of Manchester
Dissertation (Distinction): 'Investigating the Influence of urbanization on vegetation phenology in Dares Salaam, Tanzania using remote sensing'

09/2005 – 05/2008 **BSc in Conservation Biology**, Makerere University, Uganda
Dissertation (Distinction award): 'Lubigi Urban Wetland Status'

Work Experience

10/2021 – present **Lecturer/Researcher Geospatial Data Science**, Faculty of Geo-Information Science and Earth Observations, University of Twente

- Lecturing and grading of Master students' for the M-GEO (Master Geo-Information Science and Earth Observation) at the University of Twente and MSc GIMA (Geographical Information Management and Applications) program. Modules include: Academic Skills, Spatial Analysis and Systems Modelling; Scientific Geo-computing
- Offer support during GIS practical labs on two modules namely: Scientific Geo-Computing; Hi-Tech Human Touch for Masters and Bachelors programs respectively
- Coordination and teaching on short courses: Geo-web app development; Visualization and dissemination
- Coordination of existing and initiation of new research focusing on the application of low-cost environmental sensors and big Earth Observation data for monitoring environmental change
- Enrolled for a University Teaching Qualification (UTQ)

09/2020 – present **Research Scientist (funded by Intergovernmental Panel for Climate Change),** University of Twente.

- Review of various sources to identify low-cost, low-energy sensors and equipment for the monitoring of climate in tropical developing cities
- Review of literature on urban climate research in Africa
- Development of research focused on quantifying and mapping Green Infrastructure benefits and mapping ecosystem services in the global south context
- Examination of Masters dissertation projects

09/2015 – 31/05/2020 **Teaching Assistant (TA),** University of Manchester.

- Offered tutorial support for MSc International Development Environment Climate Change and Development (Environment Climate Change and Development pathway), BA and BSc Geography programs (Academic Skills)
- Offered fieldwork support: Fieldtrip to Uganda for the MSc International Development Environment Climate Change and Development; fieldtrips within Manchester for the "Green Planet" course under the BA/BSc Geography; fieldtrip to the peak District national park to complement vegetation mapping for MSc GIS students using remote sensing
- Graded student assignments and exams in the BA/BSC Geography program: Landscape Ecology and Academic Skills for Geographers (essays on Geographical concepts)
- Served as a demonstrator for GIS and remote sensing practical classes for the MSc GIS, BA and BSc Geography programs

10/2009 – 09/2015 **Research Assistant,** Bwindi Impenetrable Forest (BIF) Mountain Gorilla Research Project, Max Planck Institute for Evolutionary Anthropology (MPI-EVA), Uganda/Germany

- Devised GIS to establish changes in home range of gorillas undergoing habituation (for tourism) as the basis for determining the progress of the habituation process
- Used GIS and map reading to plan field surveys for teams that I led during mountain gorilla censuses and tracking of gorillas
- Responsible for coordinating and managing the logistics of ongoing project activities

04/2008-04/2009 **Research Assistant**, the Institute of Tropical Forest Conservation, BIF, Uganda

- Designed field data collection for a project that fused optical and radar remote sensing for biomass estimation in Bwindi National Park, Uganda
- Mapped vegetation and habitat types in Bwindi National park, Uganda

Other relevant experience

04/2013 – 09/2015 **Geospatial analyst** | self-employed (part-time on contract)

- Analysed spatial -temporal changes of woodlands in central Uganda as part of the EU-funded SAWLOG Production Grant Scheme project to determine demand of woodfuel
- Created spatial data sets and maps of reforestation projects in central Uganda
- Analysed spatial patterns of incidences of human-wildlife conflict in Bwindi

02/2013 – 09/2013 **GIS assistant (VOLUNTEER),** Mapping Solutions Ltd. Manchester, UK

- Managed GIS and Remote sensing data sets

01/2013 - 09/2013 **Student Intern** | **EU-funded Climate Change and Urban Vulnerability in Africa (CLUVA) project**

- Generated spatial data sets and performed spatial analysis to determine the influence of land cover on urban climate in Dar es Salaam, Tanzania

Publications

Kabano, P., Lindley, S. and Harris, A. (2021) 'Evidence of urban heat island impacts on the vegetation growing season length in a tropical city', *Landscape and Urban Planning*, 206, p. 103989

Anderson, V. *et al.*, including Kabano P (2021) 'Technological opportunities for sensing of the health effects of weather and climate change: a state-of-the-art-review', *International Journal of Biometeorology*.

Kabano, P., Harris, A. and Lindley, S. (2021) 'Spatiotemporal dynamics of urban climate during the wet-dry season transition in a tropical African city', *International Journal of Biometeorology*

Kabano, P., Harris, A., and Lindley, S.J. (2020). Sensitivity of Canopy Phenology to Local Urban Environmental Characteristics in a Tropical City, *Ecosystems*. Springer.

Robbins, M.M., et al., including Kabano. (2019). 'Dispersal and reproductive careers of male mountain gorillas in Bwindi Impenetrable National Park, Uganda. *Primates*', pp.1-10.

Roy, J., et al including Kabano P. (2014). Challenges in the use of genetic mark-recapture to estimate the population size of Bwindi mountain gorillas (< i> Gorilla beringei beringei</i>).*Biological Conservation*, *180*, 249-26.1

Kabano, P., Doubmbé, O., Neba, T. F., Bakarr, I. A., and Imong, I. (2014). Toward Taking the Front Seat in African Great Ape Conservation. *African Primates*, *9*, 51-56.

Kabano, P., Robbins, M. M., and Arinatiwe, J. (2014). A Brief History of Habituated Gorillas in Bwindi Impenetrable National Park. *Gorilla Journal*, *48*, 07-10.

Robbins, M.M., et al., including Kabano (2011) 'Bwindi mountain gorilla census 2011', *Max Planck Institute for Evolutionary Antrhopology, Bwindi Mgahinga Conservation Area, Uganda Wildlife Authority, International Gorilla Conservation Program. Institute of Tropical Forest Conservation https://uganda. wcs. org/Wildlife/Gorillas.*

Conferences and Posters

Kabano, P. (2021), 'Green spaces in Kampala (Uganda): Seasonality and Influence on Urban Climate', 1st African Forum on Urban Forests – Food and Agriculture Organization of the United Nations, online (oral presentation).

Kabano, P. (2021), 'Green spaces in tropical cities', Interchange21 Commonwealth conference, online (oral presentation).

Kabano, P., Harris, A and Lindley, S.J. (2018), 'The influence of intra-urban microclimate on tropical phenology: the city of Kampala, Uganda', Phenology 2018 conference, Melbourne, Australia (oral presentation).

Kabano, P., Harris, A and Lindley, S.J. (2018), 'Analysis of Spatio-temporal characteristics of local urban climate in a tropical African city: the case of Kampala, Uganda', International Conference for Urban Climate, New York, USA (oral presentation).

Kabano, P., Harris, A. and Lindley S.J (2017), Identification and characterisation of “hot” and “cool” islands in a tropical city', Cities and Climate Conference, Potsdam, Germany (oral presentation).

Kabano, P., Lindley S.J. and Harris, A (2016), 'Moving A Step Beyond the Simplistic Urban-Rural dichotomy in Tropical Urban Climate Characterisation', African Association of Remote Sensing of the Environment 2016 conference, Kampala, Uganda (oral presentation).

Kabano, P. (2014), 'An insight into the temperature controls on tropical vegetation dynamics', ESRI East Africa User conference, Mombasa, Kenya (Poster presentation)

Kabano, P. and Lindley, S. J (2013), ‘Thermal characteristics of different neighborhoods in Dares Salaam', CLUVA conference, Manchester, UK (oral presentation)

Awards

2019 Intergovernmental Panel for Climate Change (IPCC) postdoctoral research grant. Title: A Smart City Sensor Network for Real-Time Assessment of Green Infrastructure Benefits for Climate Adaptation. *Principal Investigator: Peter Kabano*. **Euro 30,000**

2019 Makerere University Research and Innovations Fund. Title: Urban Heat Island: Spatiotemporal Patterns and Implications for Human Thermal Comfort. *Principal Investigator: Edwin Mugume*. *Co-Investigators: Peter Kabano, Andrew Katumba, Maximus Byamukama, Grace Namugalu*. **USD 20,000**

2018 UK Engineering and Physical Science Research Council. Title: A Smart City Sensor Network for Real-Time Assessment of the Green Infrastructure Benefits. *Principal Investigator: Jonathan Huck*. *Co-Investigators: Sarah Lindley, Angela Harris & Peter Kabano*. **GBP 15,000**

2015 Intergovernmental Panel for Climate Change (IPCC) PhD research grant. Title: Investigating the Influence of Tropical Urban Climate on Vegetation Phenology. *Principal Investigator: Peter Kabano*. **Euro 30,000**

2015 Commonwealth Scholarship Commission PhD scholarship. Title: Investigating the Influence of Tropical Urban Climate on Vegetation Phenology. *Principal Investigator: Peter Kabano*. **GBP 110,000**

2012 University of Manchester Equity and Merit scholarship to pursue a Masters degree programme at the University of Manchester. **GBP 33,000**

2012 Government of Uganda scholarship to pursue an undergraduate degree programme at Makerere University. **USD 5,000** (Full tuition and living costs)

Skills Profile

Proficiency in the following: R (and the “tidyverse” packages), Python, SQL, QGIS, ArcGIS for desktop and ArcGIS online; Google Earth Engine, SAGA-GIS, ENVI, TIMESAT, front and back end Web GIS development

Language: English (Native); Runyakitara (mother tongue); French (Elementary); German (Elementary); Swahili (Elementary)

References

Professor Sarah Lindley
Geography department, University of Manchester, M13 9PL, Manchester, UK
sarah.lindley@manchester.ac.uk

Dr. Angela Harris
Geography department, University of Manchester, M13 9PL, Manchester, UK
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