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Environment and Geography  
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## Research interests

Climate change, Tropical ecology, Conservation, Ecosystem dynamics, Development

## Employment

### Senior Lecturer

Senior lecturer  
Environment and Geography  
University of York  
Heslington, York  
1 Sept 2009 → 30 Sept 2011

### Reader

Reader  
Environment and Geography  
University of York  
Heslington, York  
1 Oct 2011 → 30 Sept 2017

### Senior Research Fellow

Environment and Geography  
University of York  
Heslington, York  
1 Jan 2008 → 31 Aug 2009

### Research Fellow

Environment and Geography  
University of York  
Heslington, York  
1 Sept 2005 → 31 Dec 2007

### Associate Provost

Reader  
Vice Chancellor's Office  
University of York  
Heslington, York  
1 Sept 2016 → 30 Sept 2017

### Professor

Professor  
Environment and Geography  
University of York  
Heslington, York  
1 Oct 2017 → present

### Associate Provost

Professor  
Vice Chancellor's Office  
University of York  
Heslington, York  
1 Oct 2017 → 31 Aug 2018

### **YESI Research Theme Lead**

Professor  
York Environmental Sustainability Inst  
University of York  
Heslington, York  
8 Jul 2024 → 7 Jul 2027

### **External PhD supervisor**

Natl Museums Kenya, Dept Earth Sci, Palynol & Palaeobot Sect  
1 Sept 2011 → present

## **Research output**

### **A methodological framework for assessing development solutions: application to wood fuel challenges in Nigeria**

Carr, J. A., Barau, A. S., Jew, E. K. K., Kirshner, J. D., Marchant, R. A., Salisu, A. T., Petrokofsky, G., Tomei, J. & Stringer, L. C., 16 Apr 2025, In: Scientific reports. 15, 1, 13 p., 13072.

### **Exploring testate amoebae as taxonomic and functional bioindicators to inform peatland habitat status and blanket bog restoration**

Liu, B., Heinemeyer, A., Marchant, R. & Mills, R. T. E., 1 Jul 2025, In: Soil Biology and Biochemistry. 206, 109790.

### **Exploring optimal sampling strategy of testate amoebae as hydrological bioindicators in UK upland peatlands**

Liu, B., Heinemeyer, A., Marchant, R. & Mills, R. T., Nov 2024, In: Journal of Environmental Management. 370, 122959.

### **Freeing imagination for fair and resilient future cities**

Comelli, T., Ensor, J., Filippi, M. E., Hope, M., Marchant, R., Pelling, M. & Thorn, J., 29 Aug 2024, In: Nature Cities. 1, 9, p. 536-539 4 p.

### **Global disparities in wellbeing from green infrastructure cooling services: A systematic review**

Marchant, R., 1 Jul 2024, In: Urban Forestry and Urban Greening.

### **Unveiling 4500 years of environmental dynamics and human activity at Songo Mnara, Tanzania**

Englong, A., Punwong, P., Seelanan, T., Marchant, R., Wynne-Jones, S., Jirapinyakul, A. & Fleisher, J., 1 Jun 2024, In: Quaternary Science Advances. 14, 18 p., 100192.

### **Projected future climatic forcing on the global distribution of vegetation types**

Allen, B. J., Hill, D. J., Burke, A., Clark, M., Marchant, R., Stringer, L. C., Williams, D. R. & Lyon, C. J., 27 May 2024, In: Philosophical Transactions of the Royal Society B: Biological Sciences. 379, 1902, 10 p., 20230011.

### **Pathways from research to sustainable development: Insights from ten research projects in sustainability and resilience**

Marchant, R., 1 Apr 2024, In: AMBIO: A Journal of the Human Environment. 53, p. 517-533 17 p.

### **The forgotten bread oven: Local bakeries, forests and energy transition in Nigeria**

Salisu, A. T., Salisu Barau, A., Carr, J. A., Chunwate, B. T., Jew, E., Kirshner, J. D., Marchant, R., Tomei, J. & Stringer, L. C., 13 Mar 2024, In: Regional Environmental Change. 24, 12 p., 40.

**Assessing two decades of change across the Eco-Regions of West Africa using remote sensing technology**  
Marchant, R., Makinde, E. O. & Salami, J. T., Mar 2024, In: *Scientific African*. 12 p., e02056.

**The bii4africa dataset of faunal and floral population intactness estimates across Africa's major land uses**  
Marchant, R., 12 Feb 2024, In: *Scientific data*. 11, 17 p., 191.

**'Kesho' Scenario Development for Supporting Water-Energy Food Security under Future Conditions in Zanzibar**  
Marchant, R., Newman, R., Enns, C., Capitani, C., Thorn, J. P. R., Courtney-Mustaphi, C. J., Buckton, S., Om, E., Fazey, I. R. A., Haji, T. A., Nchimbi, A. Y. & Kariuki, R., 5 Feb 2024, In: *Land*. 13, 2, 26 p., 195.

**In memory of Dr Tobias Nyumba**

Marchant, R., 2 Nov 2023, In: *Conservation Science and Practice*. 5, 11

**A–Z of cost-effective adaptation strategies to the impact of climate change among crop farmers in West Africa**

Marchant, R., Touza, J., Onyekuru, N. A., Ume, C., Chiemela, C., Onyia, C., Eboh, E. C. & Eze, C. C., 28 Aug 2023, In: *Environment, Development and Sustainability*. 22 p.

**Inequitable gains and losses from conservation in a global biodiversity hotspot**

Platts, P. J., Schaafsma, M., Green, J. M. H. & Marchant, R., 17 Aug 2023, (E-pub ahead of print) In: *Environmental & Resource Economics*. 25 p.

**A people-centred framework for exploring water, energy and food security in a small developing island**

Newman, R., Thorn, J. P. R., Haji, T. A., Nchimbi, A. Y., Musa, I., Enns, C. & Marchant, R., 20 Jul 2023, In: *Population and Environment*. 45, 29 p., 14.

**Late Pleistocene montane forest fire return interval estimates from Mount Kenya**

Marchant, R. & Courtney-Mustaphi, C. J., 30 Mar 2023, In: *Journal of Quaternary Science*. 38, 2, 14 p.

**High-Resolution Multiproxy Record of Environmental Changes and Anthropogenic Activities at Unguja Ukuu, Zanzibar, Tanzania during the Last 5000 Years**

Englong, A., Punwong, P., Marchant, R., Seelanan, T., Wynne-Jones, S. & Chirawatkul, P., 13 Mar 2023, In: *Quaternary*. 6, 1, 27 p., 21.

**The African Development Corridors Database: a new tool to assess the impacts of infrastructure investments**

Marchant, R. & Thorn, J. P. R., 9 Nov 2022, In: *Scientific data*. 9, 11 p., 679.

**Indirect impacts of commercial gold mining on adjacent ecosystems**

Marchant, R., Seki, H. & Platts, P. J., 1 Nov 2022, In: *Biodiversity and Conservation*. 275, 12 p., 109782.

**Serengeti's futures: Exploring land use and land cover change scenarios to craft pathways for meeting conservation and development goals**

Marchant, R. & Courtney-Mustaphi, C. J., 23 Sept 2022, In: *Frontiers in Conservation Science*. 3, 21 p., 920143.

**Developing Transdisciplinary Approaches to Sustainability Challenges: The Need to Model Socio-Environmental Systems in the Longue Durée**

Marchant, R., 17 Aug 2022, In: *Sustainability*. 14, 16, 20 p., 10234.

**Special Issue Editorial: Mountains under Pressure**

Marchant, R. & Cuni Sanchez, A., 10 Aug 2022, In: *Land*. 11, 8, 5 p., 1283.

**Assessing the Underlying Drivers of Change over Two Decades of Land Use and Land Cover Dynamics along the Standard Gauge Railway Corridor, Kenya**

Marchant, R., Nyumba, T. & Thorn, J., 19 May 2022, In: *Sustainability*. 14, 10, 21 p., 6158.

### **Climate change and hunter-gatherers in montane eastern DR Congo**

Batumike, R., Bulonvu, F., Imani, G., Akonkwa, D., Gahigi, A., Klein, J. A., Marchant, R. & Cuni Sanchez, A., 1 May 2022, In: *Climate and Development*. 14, 5, p. 431-442 12 p.

### **Documenting a thousand years of environmental and anthropogenic changes on mangroves on the Bangkok coast, the upper Gulf of Thailand**

Marchant, R. & Punwong, P., 19 Mar 2022, (E-pub ahead of print) In: *Vegetation History and Archaeobotany*. 18 p.

### **Pharmaceutical pollution of the world's rivers**

Wilkinson, J. L., Boxall, A. B. A., Kolpin, D. W., Leung, K. M. Y., Lai, R. W. S., Galbán-Malagón, C., Adell, A. D., Mondon, J., Metian, M., Marchant, R. A., Bouzas-Monroy, A., Cuni-Sanchez, A., Coors, A., Carriquiriborde, P., Rojo, M., Gordon, C., Cara, M., Moermond, M., Luarte, T. & Petrosyan, V. & 107 others, Perikhyanyan, Y., Mahon, C. S., McGurk, C. J., Hofmann, T., Kormoker, T., Iniguez, V., Guzman-Otazo, J., Tavares, J. L., Gildasio De Figueiredo, F., Razzolini, M. T. P., Dougnon, V., Gbaguidi, G., Traoré, O., Blais, J. M., Kimpe, L. E., Wong, M., Wong, D., Ntchantcho, R., Pizarro, J., Ying, G.-G., Chen, C.-E., Páez, M., Martínez-Lara, J., Otamonga, J.-P., Poté, J., Ifo, S. A., Wilson, P., Echeverría-Sáenz, S., Udikovic-Kolic, N., Milakovic, M., Fatta-Kassinou, D., Ioannou-Ttofa, L., Belušová, V., Vymazal, J., Cárdenas-Bustamante, M., Kassa, B. A., Garric, J., Chaumot, A., Gibba, P., Kunchulia, I., Seidensticker, S., Lyberatos, G., Halldórsson, H. P., Melling, M., Shashidhar, T., Lamba, M., Nastiti, A., Supriatin, A., Pourang, N., Abedini, A., Abdullah, O., Gharbia, S. S., Pilla, F., Chefetz, B., Topaz, T., Yao, K. M., Aubakirova, B., Beisenova, R., Olaka, L., Mulu, J. K., Chatanga, P., Ntuli, V., Blama, N. T., Sherif, S., Aris, A. Z., Looi, L. J., Niang, M., Traore, S. T., Oldenkamp, R., Ogunbanwo, O., Ashfaq, M., Iqbal, M., Abdeen, Z., O'Dea, A., Morales-Saldaña, J. M., Custodio, M., de la Cruz, H., Navarrete, I., Carvalho, F., Gogra, A. B., Koroma, B. M., Cerkvenik-Flajs, V., Gombač, M., Thwala, M., Choi, K., Kang, H., Ladu, J. L. C., Rico, A., Amerasinghe, P., Sobek, A., Horlitz, G., Zenker, A. K., King, A. C., Jiang, J.-J., Kariuki, R., Tumbo, M., Tezel, U., Onay, T. T., Leiju, J. B., Vystavna, Y., Vergeles, Y., Heinzen, H., Pérez-Parada, A., Sims, D. B., Figy, M., Good, D. & Teta, C., 22 Feb 2022, In: *Proceedings of the National Academy of Sciences of the United States of America*. 119, 8, 10 p., e2113947119.

### **Trade-offs and synergies of ecosystem services in the Yangtze River Delta, China: response to urbanizing variation**

Chen, S., Li, G., Zhuo, Y., Xu, Z., Ye, Y., Thorn, J. P. R. & Marchant, R., Feb 2022, In: *Urban Ecosystems*. 25, 1, p. 313-328

### **East Africa's Human Environment Interactions: Historical Perspectives for a Sustainable Future**

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### **Climate change research and action must look beyond 2100**

Lyon, C., Saupe, E. E., Smith, C. J., Hill, D. J., Beckerman, A. P., Stringer, L. C., Marchant, R., McKay, J., Burke, A., O'Higgins, P., Dunhill, A. M., Allen, B. J., Riel-Salvatore, J. & Aze, T., 1 Jan 2022, In: *Global Change Biology*. 28, 2, p. 349-361 13 p.

### **A palaeovegetation and diatom record of tropical montane forest fire, vegetation and hydroseral changes on Mount Kenya from 27,000–16,500 cal yr BP**

Courtney Mustaphi, C. J., Rucina, S. M., King, L., Selby, K. & Marchant, R., 1 Nov 2021, In: *Palaeogeography, Palaeoclimatology, Palaeoecology*. 581, 14 p., 110625.

### **Combining Remote Sensing and Species Distribution Modelling to Assess *Pinus hartwegii* Response to Climate Change and Land Use from Izta-Popo National Park, Mexico**

García-Amorena, I., Moreno-Amat, E., Aulló-Maestro, M. E., Mateo-Sánchez, M. C., Merino-De-Miguel, S., Ribalaygua, J. & Marchant, R., 2 Oct 2021, In: *Land*. 10, 10, 20 p., 1037.

### **Local Perceptions of Climate Change and Adaptation Responses from Two Mountain Regions in Tanzania**

Kaganzi, K., Cuni Sanchez, A., Mcharazo, F., Martin, E., Marchant, R. & Thorn, J. P. R., 23 Sept 2021, In: *Land*. 10, 10, 999.

### **Sedimentological, palynological and charcoal analyses of the hydric palustrine sediments from the Lielerai-Kimana wetlands, Kajiado, southern Kenya**

Githumbi, E. N., Courtney Mustaphi, C. J. & Marchant, R., 20 Sept 2021, *Quaternary Vegetation Dynamics – The African Pollen Database*. CRC Press, (Palaeoecology of Africa).

### **Mainstreaming nature-based solutions for climate resilient infrastructure in peri-urban sub-Saharan Africa**

Thorn, J. P. R., Biancardi Aleu, R., Wijesinghe, A., Mdongwe, M., Marchant, R. A. & Shackleton, S., 16 Sept 2021, (E-pub ahead of print) In: *Landscape and urban planning*. 216, 15 p., 104235.

### **Climate Change in Eastern Africa**

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### **High aboveground carbon stock of African tropical montane forests**

Cuni Sanchez, A., Sullivan, M., Platts, P. J., Lewis, S. L., Marchant, R., Imani, G., Hubau, W., Abiem, I., Adhikari, H., Albrecht, T., Altman, J., Amani, C., Aneseyee, A. B., Avitabile, V., Banin, L., Batumike, R., Bauters, M., Beeckman, H., Begne, S. K. & Bennett, A. C. & 82 others, Bitariho, R., Boeckx, P., Bogaert, J., Bräuning, A., Bulonvu, F., Burgess, N. D., Calders, K., Chapman, C., Chapman, H., Comiskey, J., de Haulleville, T., Decuyper, M., DeVries, B., Dolezal, J., Droissart, V., Ewango, C., Feyera, S., Gebrekristos, A., Gereau, R. E., Gilpin, M., Hakizimana, D., Hall, J., Hamilton, A., Hardy, O., Hart, T., Heiskanen, J., Hemp, A., Herold, M., Hiltner, U., Horak, D., Kamdem, M.-N., Kayijamahe, C., Kenfack, D., Kinyanjui, M. J., Klein, J., Lisingo, J., Lovett, J., Lung, M., Makana, J.-R., Malhi, Y., Marshall, A., Martin, E. H., Mitchard, E. T. A., Morel, A., Mukendi, J. T., Muller, T., Nchu, F., Nyirambangutse, B., Okello, J., Peh, K. S.-H., Pellikka, P. K. E., Phillips, O. L., Plumptre, A., Qie, L., Rovero, F., Sainge, M. N., Schmitt, C. B., Sedlacek, O., Ngute, A. S. K., Sheil, D., Sheleme, D., Simegn, T. Y., Simo-Droissart, M., Sonké, B., Soromessa, T., Sunderland, T., Svoboda, M., Taedoumg, H., Taplin, J., Taylor, D., Thomas, S. C., Timberlake, J., Tuagben, D., Umunay, P., Uzabaho, E., Verbeeck, H., Vleminckx, J., Wallin, G., Wheeler, C., Willcock, S., Woods, J. T. & Zibera, E., 25 Aug 2021, In: *Nature*. 596, p. 536-542 7 p.

### **COP26 as an opportunity to further democratise the Green Climate Fund**

Omukuti, J., Marchant, R. & White, P. C. L., 11 Aug 2021, In: *The Lancet Planetary Health*. 5, 8

### **Tree diversity and carbon stocks in the Itombwe Mountains of eastern DR Congo**

Marchant, R., 1 Aug 2021, In: *Biotropica*. 53, 6, p. 1594-1605 12 p.

### **Scenario archetypes reveal risks and opportunities for global mountain futures**

Thorn, J. P. R., Klein, J. A., Steger, C., Hopping, K. A., Capitani, C., Tucker, C. M., Reid, R. S. & Marchant, R., Jul 2021, In: *Global Environmental Change*. 69, 14 p., 102291.

### **Late Holocene environmental change and anthropogenic: Ecosystem interaction on the Laikipia Plateau, Kenya**

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### **Climate Change, Perceptions, and Adaptation Responses Among Farmers and Pastoralists in the Cameroon Highlands**

Marchant, R., 13 Jun 2021, *Handbook of Climate Change Management : Research, Leadership, Transformation*. Springer, p. 3971-3984

### **Mountain Observatories: Status and Prospects for Enhancing and Connecting a Global Community**

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### **Survey of Africa's tropical montane forests assesses ecosystem services potential**

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### **Detecting and predicting forest degradation: A comparison of ground surveys and remote sensing in Tanzanian forests**

Ahrends, A., Bulling, M., Platts, P. J., Swetnam, R. D., Ryan, C., Doggart, N., Hollingsworth, P. M., Marchant, R., Balmford, A., Harris, D. J., Gross-Camp, N., Sumbi, P., Munishi, P. K. T., Madoffe, S., Mhoro, B. E., Leonard, C., Bracebridge, C., Doody, K., Wilkins, V. & Owen, N. & 8 others, Marshall, A., Schaafsma, M., Pfliegner, K., Jones, T., Robinson, J., Topp-Jorgensen, E. J., Brink, H. & Burgess, N. D., 27 Apr 2021, In: *Plants, People, Planet*. 3, p. 268-281 14 p.

### **Science with society: Evidence-based guidance for best practices in environmental transdisciplinary work**

Steger, C., Klein, J. A., Reid, R. S., Lavorel, S., Tucker, C., Hopping, K. A., Marchant, R., Teel, T., Cuni-Sanchez, A., Dorji, T., Greenwood, G., Huber, R., Kassam, K. A., Kreuer, D., Nolin, A., Russell, A., Sharp, J. L., Šmid Hribar, M., Thorn, J. P. R. & Grant, G. & 3 others, Mahdi, M., Moreno, M. & Waiswa, D., 5 Mar 2021, (E-pub ahead of print) In:

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**Dryland nature based solutions for informal settlement upgrading schemes in Africa**

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**Socially inclusive and innovative policy making for climate resilient urban strategies for informal settlements in dryland Africa**

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**A million year vegetation history and palaeoenvironmental record from the Lake Magadi Basin, Kenya Rift Valley**

Muiruri, V., Owen, R. B., Lowenstein, T. K., Renaut, R. W., Marchant, R., Rucina, S. M., Cohen, A., Deino, A. L., Sier, M. J., Luo, S., Leet, K., Campisano, C., Rabideaux, N. M., Deocampo, D., Shen, C.-C., Mbutia, A., Davis, B. C., Aldossari, W. & Wang, C., 26 Jan 2021, In: Palaeogeography palaeoclimatology palaeoecology. 567, 110247.

**Late Pleistocene and Holocene Afromontane vegetation and headwater wetland dynamics within the Eastern Mau Forest, Kenya**

Githumbi, E. N., Courtney Mustaphi, C. J. & Marchant, R., 11 Jan 2021, In: Journal of Quaternary Science. 36, 2, p. 239-254 16 p.

**Assessing Interactions between Agriculture, Livestock Grazing and Wildlife Conservation Land Uses: A Historical Example from East Africa**

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**Assessing the impacts of land use and climate interactions on beekeeping livelihoods in the Taita Hills, Kenya**

Stormes Newman, R. J., Marchant, R., Enns, C. & Capitani, C., 22 Dec 2020, In: Development in Practice. 31, 4

**Climate-human-landscape interaction in the eastern foothills of Mt. Kilimanjaro (equatorial East Africa) during the last two millennia**

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**The effects of seaward distance on above and below ground carbon stocks in estuarine mangrove ecosystems**

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**A systematic review of participatory scenario planning to envision mountain social-ecological systems futures**

Thorn, J. P. R., Klein, J. A., Steger, C., Hopping, K. A., Capitani, C., Tucker, C. M., Nolin, A. W., Reid, R., Seidl, R., Chitale, V. & Marchant, R., 1 Sept 2020, In: Ecology and Society. 25, 3, 21 p., 6.

**Asymmetric response of forest and grassy biomes to climate variability across the African Humid Period: influenced by anthropogenic disturbance?**

Phelps, L. N., Chevalier, M., Shanahan, T. M., Aleman, J. C., Courtney-Mustaphi, C., Kiahtipes, C. A., Broennimann, O., Marchant, R., Shekeine, J., Quick, L. J., Davis, B. A. S., Guisan, A. & Manning, K., 31 Jul 2020, In: Ecography. 43, 8, p. 1118-1142 25 p.

**IPCC WGII Sixth Assessment Report Cross-Chapter Paper 5: Mountains**

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**Conceptualising the Global Forest Response to Liana Proliferation**

Marshall, A., Platts, P. J., Chazdon, R., Seki, H., Campbell, M., Phillips, O. L., Gereau, R. E., Marchant, R., Liang, J., Malhi, Y. & Pfeifer, M., 24 Apr 2020, In: Frontiers in Forests and Global Change. 3, 21 p., 35.

**Games as boundary objects: charting trade-offs in sustainable livestock transformation**

Morris, J., Ensor, J., Pfeifer, C., Marchant, R., Mulatu, D. W., Soka, G., Ouédraogo-Koné, S., Wakeyo, M. B. & Topi, C., 27 Mar 2020, (E-pub ahead of print) In: International Journal of Agricultural Sustainability. 24 p.

**Integrating insights from social-ecological interactions into sustainable land use change scenarios for small Islands in the western Indian ocean**

Newman, R. J. S., Capitani, C., Courtney-Mustaphi, C., Thorn, J. P. R., Kariuki, R., Enns, C. & Marchant, R., 12 Feb 2020, In: Sustainability (Switzerland). 12, 4, 22 p., 1340.

**Social Perceptions of Forest Ecosystem Services in the Democratic Republic of Congo**

Cuni Sanchez, A. & Marchant, R., 4 Dec 2019, In: Human Ecology. 15 p.

**Using the Past to Inform a Sustainable Future: Palaeoecological Insights from East Africa**

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**Integrating evidence of land use and land cover change for land management policy formulation along the Kenya-Tanzania borderlands**

Courtney Mustaphi, C. J., Capitani, C., Boles, O., Kariuki, R., Newman, R., Munishi, L., Marchant, R. & Lane, P., 1 Nov 2019, (E-pub ahead of print) In: Anthropocene. 28, 100228.

**Archaeological assessment reveals Earth's early transformation through land use**

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**Archaeology has no Relevance**

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**Sensitivity of a tropical montane cloud forest to climate change, present, past and future: Mt. Marsabit, N. Kenya**

Marchant, R. & Cuni Sanchez, A., 21 Jun 2019, In: Quaternary Science Reviews. 218, p. 34-48 15 p.

**Mangrove dynamics and environmental changes on Koh Chang, Thailand during the last millennium**

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**Catalyzing Transformations to Sustainability in the World's Mountains**

Thorn, J. P. R., Klein, J. A., Nolin, A. W., Tucker, C. M., Hopping, K. A., Gret-Regamey, A., Lavorel, S., Muller, B., Yeh, E. T., Boone, R. B., Steger, C., Bourgeron, P., Butsic, V., Castellanos, E., Chen, X., Dong, S. K., Greenwood, G., Keiler, M., Marchant, R. & Spies, T. & 2 others, Seidl, R. & Yager, K., May 2019, In: Earth's Future. 7, 5, p. 547-557 11 p., 7.

**Scenarios of land use and land cover change and their multiple impacts on natural capital in Tanzania**

Capitani, C., van Soesbergen, A., Mukama, K., Malugu, I., Mbilinyi, B., Chamuya, N., Kempen, B., Malimbwi, R., Mant, R., Munishi, P., Njana, M., Ortmann, A., Platts, P. J., Runsten, L., Sassen, M., Sayo, P., Shirima, D., Zahabu, E., Burgess, N. & Marchant, R., 1 Mar 2019, In: Environmental conservation. 46, 1, p. 17-24 8 p.

**Views from two mountains: exploring climate change impacts on traditional farming communities of Eastern Africa highlands through participatory scenarios**

Capitani, C., Garedew, W., Mitiku, A., Yadessa, G. B., Hailu, B. T., Heiskanen, J., Hurskainen, P., Platts, P. J., Siljander, M., Pinard, F., Johansson, T. & Marchant, R., 1 Jan 2019, In: Sustainability Science. 14, 1, p. 191-203 13 p.

**Holocene mangrove dynamics and relative sea-level changes along the Tanzanian coast, East Africa**

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Marchant, R., Boom, A., Behling, H., Hooghiemstra, H., Melief, B., Van Geel, B., Van der Hammen, T. & Wille, M., Oct 2004, In: Journal of Quaternary Science. 19, 7, p. 721-732 11 p.

**Rapid environmental change in African and South American tropics around 4000 years before present: a review**

Marchant, R. & Hooghiemstra, H., Aug 2004, In: Earth Science Reviews. 66, 3-4, p. 217-260 43 p.

**Distribution and ecology of parent taxa of pollen lodged within the Latin American Pollen Database.**

Marchant, R., Almeida, L., Berrio, J. C., Bush, M., Cleef, A., Duivenvoorden, J., Kappelle, M., De Oliveira, P., de Oliveira-Filho, A. T., Lozano-Garcia, S., Ledru, M. P., Ludlow-Wiechers, B., Markgraf, V., Mancini, V., Paez, M., Prieto, A., Rangel, O., Salgado-Labouriau, M. L., Behling, H. & Hooghiemstra, H., Aug 2002, In: Review of Palaeobotany and Palynology. 121, 1, p. 1-75 74 p.

## Activities

### Wisdom of the Land

Marchant, R. (Advisor)

16 Sept 2024 → 17 Sept 2924

### MRI Mountain retreat

Marchant, R. (Advisor)

26 Aug 2024 → 30 Aug 2024

### Agroforestry futures for Ethiopia

Marchant, R. (Advisor)

15 Aug 2024 → 16 Aug 2024

### Working partnership lunch

Marchant, R. (Advisor)

6 Aug 2024

### Addressing sustainable development futures for Tanzania

Marchant, R. (Chair)

13 Jul 2024

### Grant building

Marchant, R. (Advisor)

10 Jul 2024

### KESHO training

Marchant, R. (Advisor)

10 Jul 2024

### World Biodiversity Forum

Marchant, R. (Advisor)

18 Jun 2024

**The Wonder of Pollen**

Wilson, O. J. (Organiser) & Marchant, R. (Organiser)  
20 May 2024 → 1 Sept 2024

**Mountain Futures**

Marchant, R. (Advisor)  
19 May 2024

**Using the past to craft sustainable Mountain futures**

Marchant, R. (Chair)  
18 May 2024

**Bees: a Story of Survival**

Wilson, O. J. (Participant) & Marchant, R. (Participant)  
4 May 2024 → 5 May 2025

**Scenario training**

Marchant, R. (Advisor)  
May 2024

**Mountain Summer School teaching for FAO**

Marchant, R. (Advisor)  
2023

**The ecological impacts and ensuing restoration of large scale Gold mining in Tanzania**

Marchant, R. (Examiner (external))  
2023

**Past, present futures sociological changes: insights for a sustainable future Africa**

Marchant, R. (Chair)  
3 Nov 2022

**FAO for the International Year of Sustainable Mountain Development**

Marchant, R. (Advisor)  
2022 → 2023

**Learning lessons from the past to shape future more sustainable pathways**

Marchant, R. (Chair)  
13 Dec 2021

**FutureLearn Post-COP26 Roundtable**

Marchant, R. (Advisor)  
2 Dec 2021

**Geo Meeting**

Marchant, R. (Advisor)  
30 Nov 2021

**NBS in a Changing Climate Conference**

Marchant, R. (Advisor)  
29 Nov 2021

**How to Influence Policy in the Global Context**

Marchant, R. (Advisor)

25 Nov 2021

**MRI SLC members meeting**

Marchant, R. (Advisor)

24 Nov 2021

**Voice from the Global South – post COP26 session**

Marchant, R. (Advisor)

19 Nov 2021

**Scenarios of future land cover change for southern Kenya**

Marchant, R. (Advisor)

3 Nov 2021

**INQUA - East Africa**

Marchant, R. (Chair)

25 Oct 2021

**ACDI - Africa and the SDGs**

Marchant, R. (Advisor)

22 Oct 2021

**PhD Viva Lancaster**

Marchant, R. (Examiner (external))

13 Oct 2021

**COP26 South and West Africa Resilience Series**

Marchant, R. (Advisor)

8 Oct 2021

**Are livestock always bad for the planet? Report launch and panel discussion**

Marchant, R. (Advisor)

27 Sept 2021

**PAGES traces**

Marchant, R. (Advisor)

23 Sept 2021

**Horizon Scanning workshop - Imperial College**

Marchant, R. (Advisor)

21 Sept 2021 → 22 Sept 2021

**UKRI COP26 Workshop: Building Transformational Pathways to Adaptation in Eastern Africa**

Marchant, R. (Advisor)

16 Sept 2021

**NERC biodiversity and climate**

Marchant, R. (Advisor)

15 Sept 2021

**Africa and the SDGs**

Marchant, R. (Advisor)

13 Sept 2021



**COP15 NERC Economics of Biodiversity**

Marchant, R. (Advisor)  
7 Sept 2021

**COP26 Adaptation and Resilience Events Series – Profiling global impacts and upscaling opportunities for climate research in Africa - East-Africa Event**

Marchant, R. (Advisor)  
27 Aug 2021

**The second African Conference for Linear Infrastructure and Ecology (ACLIE)**

Marchant, R. (Advisor)  
12 Aug 2021

**Coastal History Network**

Marchant, R. (Advisor)  
11 Aug 2021

**Carbon Borders Voices**

Marchant, R. (Advisor)  
10 Aug 2021

**Africa COP**

Marchant, R. (Advisor)  
29 Jul 2021

**UN Food Systems Pre-Summit Parallel Session: "Food systems as a key pillar of sustainable development in mountains"**

Marchant, R. (Advisor)  
28 Jul 2021

**External review Plant Conservation Unit**

Marchant, R. (Examiner (external))  
26 Jul 2021

**UNESCO COP forum**

Marchant, R. (Advisor)  
14 Jul 2021

**Traditional knowledge for global biodiversity and development goals**

Marchant, R. (Advisor)  
12 Jul 2021

**Closing Workshop for Climate Research for Development**

Marchant, R. (Advisor)  
21 Jun 2021

**Summer School Anton de Kok University, Suriname**

Marchant, R. (Advisor)  
21 Jun 2021

**Mt Elgon UNESCO workshop**

Marchant, R. (Advisor)  
10 Jun 2021

**UKRI COP26 Adaptation and Resilience Events Series**

Marchant, R. (Advisor)

3 Jun 2021

**COP26 Science event**

Marchant, R. (Advisor)

10 May 2021 → 15 May 2021

**Research to innovation: Solutions to the climate crisis in Africa**

Marchant, R. (Advisor)

20 Apr 2021

**InterSol Conference**

Marchant, R. (Advisor)

13 Apr 2021

**MRI Governing Body Science Leadership Committee**

Marchant, R. (Advisor)

12 Apr 2021

**TEN Meeting: Challenges and opportunities of tropical agricultural expansions**

Marchant, R. (Advisor)

22 Mar 2021

**Art + Anthropocene Virtual Seminar**

Marchant, R. (Advisor)

16 Mar 2021

**Evaluating the Impact of Cultural Heritage for Sustainable Development**

Marchant, R. (Advisor)

2 Mar 2021

**Bridging the Gaps: Cultural Heritage for Climate Action**

Marchant, R. (Advisor)

24 Feb 2021

**Heritage for Our Sustainable Future**

Marchant, R. (Advisor)

22 Feb 2021

**Africa Research Network at York**

Marchant, R. (Advisor)

2021 → 2023

**COP 26 Universities Network**

Marchant, R. (Advisor)

1 Dec 2020 → 31 Dec 2021

**University of Nairobi**

Marchant, R. (Advisor)

20 Nov 2019

**Attended the African Research Universities Alliance**

Marchant, R. (Advisor)  
9 Nov 2019

**Invited seminar at University of Leicester**

Marchant, R. (Advisor)  
5 Nov 2019

**Exhibition on Pastoralists Under Pressure**

Marchant, R. (Advisor)  
8 Oct 2019 → 11 Nov 2019

**External Examination Nottingham**

Marchant, R. (Examiner (external))  
1 Sept 2019 → 1 Sept 2022

**Tropical Ecosystem Network**

Marchant, R. (Advisor)  
30 May 2019

**Univ Maastricht**

Marchant, R. (Advisor)  
22 May 2019

**Peer review of Ref submission**

Marchant, R. (Advisor)  
15 May 2019

**Academic Mentor for African Academy of Science**

Marchant, R. (Advisor)  
2019 → 2022

**Adaptation and Resilience theme with a team of UK Climate University**

Marchant, R. (Advisor)  
2019 → 2021

**Anton de Kom Universiteit van Suriname**

Marchant, R. (Advisor)  
2019 → 2020

**External Examiner, University of Nottingham**

Marchant, R. (Examiner (external))  
2019 → 2022

**African Mountains under pressure**

Marchant, R. (Chair)  
19 Jun 2018

**Africa Research Network L(a)unch**

Wynne-Jones, S. (Organiser), McCann, G. (Organiser), Marchant, R. (Organiser) & Klantschnig, G. (Organiser)  
5 Jun 2018

**Do species move, adapt or die**

Marchant, R. (Speaker)  
20 Jan 2018

**ACACIA Theory of Change**

Marchant, R. (Advisor)  
2018

**Africa Network**

Marchant, R. (Advisor)  
2018

**NSF-START teaching**

Marchant, R. (Advisor)  
2018

**Residential summer schools funded through the McArthur Foundation**

Marchant, R. (Advisor)  
2018

**taught in the summer school at the Sustainable Management of Natural Resources (SMNR) at the University of Suriname**

Marchant, R. (Advisor)  
2018 → 2022

**The role of Green Infrastructure in urban expansion in China**

Marchant, R. (Examiner (external))  
2018

**The Tropical Biological Association**

Marchant, R. (Advisor)  
2018

**University of Ghana**

Marchant, R. (Advisor)  
2018

**World University Network 'Global Africa Group'**

Marchant, R. (Advisor)  
2018 → 2020

**Global Mountain Partnership**

Marchant, R. (Speaker)  
11 Dec 2017 → 15 Dec 2017

**EU AAREA to policy workshop**

Marchant, R. (Keynote/plenary speaker)  
5 Dec 2017 → 6 Dec 2017

**International Biodiversity and Ecosystem Services Scenario Africa group**

Marchant, R. (Advisor)  
2017 → 2019

**World University Network Africa Group (Event)**

Marchant, R. (Advisor)  
2017

## **GOING BEYOND THE SAFARI: THE POTENTIAL ROLE OF THE ENVIRONMENTAL HUMANITIES IN SUB-SAHARAN AFRICA**

Richer, S. (Speaker), Marchant, R. (Speaker), Stump, D. (Speaker), Lang, C. (Speaker) & Ferro Vazquez, M. D. L. C. (Speaker)

19 Dec 2016

## **The use of African archaeological data on historic land cover to inform climate change models**

Richer, S. (Speaker), Marchant, R. (Speaker) & Stump, D. (Speaker)

26 Nov 2016

## **Land use and land cover change in East Africa - initial findings from LandCover6k East Africa**

Richer, S. (Speaker), Marchant, R. (Speaker) & Stump, D. (Speaker)

23 Aug 2016

## **Mountain Research Initiative (External organisation)**

Marchant, R. (Advisor)

2016

## **PAGES LandCover Workshop 6 K**

Marchant, R. (Organiser)

2016 → 2021

## **Scientific Leadership Council (SLC) for the Mountain Research Initiative**

Marchant, R. (Advisor)

2015 → 2023

## **Tropical Ecosystem Network**

Marchant, R. (Advisor)

2012 → 2018

## **Awards**

### **22DISCIPLINEHOP-NERC Connecting Blue Carbon Research**

Garrett, E. (Principal investigator), Hudson, P. G. M. B. (Co-investigator), Marchant, R. (Co-investigator) & Redeker, K. R. (Co-investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL: £35,121.02

1/01/23 → 31/03/23

## **Projects**

### **0025; Climate Services Sandpit award**

Marchant, R. (Principal investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL

1/01/16 → 31/03/16

### **22DISCIPLINEHOP-NERC Connecting Blue Carbon Research**

Garrett, E. (Principal investigator), Hudson, P. G. M. B. (Co-investigator), Marchant, R. (Co-investigator) & Redeker, K. R. (Co-investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL

1/01/23 → 31/03/23

### **3D Pollen Project**

Marchant, R. (Principal investigator) & Wilson, O. J. (Principal investigator)

1/10/22 → 30/09/25

### **ARCC: Adaptation and Resilience to Climate Change**

Marchant, R. (Principal investigator)

1/07/16 → 30/12/20

**Adopting REDD+ for conservation, Sustainable community livelihood and climate change migration**

Marchant, R. (Principal investigator)

7/02/14 → ...

**AFRI-Skyfor**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

1/08/17 → 31/07/20

**AHEAD: Towards Atacama, near the deserted coast, you see a land without men, where there is not a bird, not a beast, nor a tree, nor any vegetation**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

1/09/18 → 31/08/20

**BBSRC FTMA: Eco regional assessment and mapping of cost effective adaption strategies to the impact of climate change among crop farmers in West Africa**

Marchant, R. (Principal investigator)

BBSRC (BIOTECHNOLOGY AND BIOLOGICAL SCIENCES RESEARCH COUNCIL)

1/11/17 → 31/03/19

**PURE: Catalysing participation through innovation to strengthen rural-urban climate resilient futures in Namibia**

Thorn, J. P. R. (Co-investigator), Cinderby, S. (Principal investigator), Marchant, R. (Co-investigator), Ajala, O. A. (Co-investigator), Hejnowicz, A. P. (Co-investigator), Mueller, A. (Co-investigator), Shackleton, S. (Co-investigator), Mfunne, J. (Co-investigator) & Delgado, G. (Co-investigator)

**Development Corridors Partnership**

Thorn, J. P. R. (Researcher), Marchant, R. (Co-investigator), Olago, D. (Co-investigator), Munisihi, P. (Co-investigator), Sandbrook, C. (Co-investigator), Yilong, X. (Co-investigator) & Conway, D. (Co-investigator)

1/01/18 → 31/12/21

**ECO DYNAMIC AFRICA, MC IEF Marion Pfeifer: Tropical forests in East Africa - Relationships between ecosystem diversity/ecosystem function and environmental gradients**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

1/08/09 → 31/07/11

**ESRC IAA: Transitioning from infrastructure corridors to development corridors**

Marchant, R. (Principal investigator)

ECONOMIC AND SOCIAL RESEARCH COUNCIL (ESRC)

1/04/19 → 30/12/22

**Food and Ecosystem Services in Eastern Africa**

Marchant, R. (Principal investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL

1/08/10 → 31/01/11

**Functions of soil and water ecosystem services for agriculture and forestry**

Marchant, R. (Principal investigator)

THE ROYAL SOCIETY

8/08/13 → 31/07/15

**GCRF: Training for Development: East African Growth Corridors and the China to Africa connection**

Marchant, R. (Principal investigator)

ECONOMIC AND SOCIAL RESEARCH COUNCIL (ESRC)

1/10/17 → 31/03/22

**GNCA Extension to R19091 [East African Growth Corridors And The China To Africa Connection] [Scenarios for Sustainable Futures]**

Marchant, R. (Principal investigator)

EPSRC

1/10/22 → 31/03/23

**Green infrastructure for climate adaptation in peri-urban areas**

Thorn, J. P. R. (Principal investigator), Marchant, R. (Co-investigator), Shackleton, S. (Co-investigator) & Wijesinghe, A. (Researcher)

1/11/18 → 30/09/20

**SEAMA: Improving outcomes for people and biodiversity in the South-East Africa Montane Archipelago**

Platts, P. J. (Principal investigator), Thorn, J. P. R. (Co-investigator), Marchant, R. (Co-investigator) & Cuna-Sanchez, A. (Co-investigator)

**KITE - York Institute Tropical Ecosystem Dynamics**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

1/09/05 → 31/08/09

**Learning from Cyclone Idai: Response, recovery, future risk. Mozambique**

Thorn, J. P. R. (Co-investigator), Marchant, R. (Co-investigator), Kirshner, J. D. (Principal investigator), Platts, P. J. (Co-investigator), Jew, E. (Co-investigator), Ensor, J. (Co-investigator) & Hill, J. (Co-investigator)

1/05/19 → 31/07/19

**Lion Futures**

Marchant, R. (Principal investigator)

1/04/24 → 31/03/28

**Makoko - protecting Kenya's mangroves**

Marchant, R. (Principal investigator)

1/01/19 → 31/12/20

**Mountain Sentinels Collaborative Network**

Thorn, J. P. R. (Researcher), Marchant, R. (Researcher), Klein, J. A. (Principal investigator), Reid, R. (Principal investigator), Nolin, A. W. (Principal investigator) & Tucker, C. M. (Principal investigator)

1/05/16 → 1/05/20

**Mountain Social-Ecological Futures**

Marchant, R. (Principal investigator)

1/02/24 → 30/04/27

**Mountain Social-Ecological Futures**

Marchant, R. (Principal investigator)

1/04/24 → 30/04/27

**Multifunctional Agroforestry for Enhanced Biodiversity, Improved Livelihood, and Resilient Landscapes in Ethiopian Highlands**

Marchant, R. (Principal investigator)

1/01/24 → 1/01/27

**REAL - Resilience in East African Landscapes**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

1/09/13 → 30/08/17

**S4G: Space4Giants: Safeguarding Space for Giants: building sustainable infrastructure for the benefit of nature and people**

Marchant, R. (Principal investigator)

EUROPEAN COMMISSION

4/01/22 → 17/05/23

**Space for Giants**

Marchant, R. (Principal investigator) & Nyumba, T. (Principal investigator)

**Thailand's Land Futures**

Marchant, R. (Principal investigator)

1/04/24 → 31/03/25

**The 3D Pollen Project Knowledge Exchange Fellowship (Oliver Wilson)**

Marchant, R. (Principal investigator) & O'Toole, P. J. (Co-investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL

1/10/22 → 30/09/25

**Up in smoke: Exploring future livelihoods and landscapes in tobacco-cultivated miombo woodland in Mbeya, South Western Tanzania**

Thorn, J. P. R. (Co-investigator), Jew, E. (Principal investigator), Tumbo, M. (Co-investigator), Kalumanga, E. (Co-investigator) & Marchant, R. (Co-investigator)