

Article Review & Presentation

Overview: Wildlife conservation requires knowledge of multiple disciplines from sociology and anthropology through GIS and genomics. This course really embraces the dual themes of ecology and evolution of East African biota, and the challenges of biodiversity conservation. Here we have chosen a series of peer-reviewed articles that run this gamut. We also think that we can all improve our critical thinking ‘chops’ and this exercise will help in this domain as well.

Rather than have you prepare a PowerPoint presentation, we would like you to come prepared to discuss your article orally. You should print off a copy of the article and bring it with you for your reference. We will have pdf copies of all articles as well. I would also like you to prepare and bring **handouts for 20** that simply include the citation and the abstract for your focal article. You will have time in the initial days of the course to ask me questions should any arise.

In your presentation, we would like you to mention the article citation, indicate the objectives of the research, provide a succinct overview of their methods and a summary of their major findings, and embed the article in the broader context of major themes in ecology, evolution and conservation. At various junctures throughout the course we will set aside time for sessions where each of you will lead an exploration centred on your paper – for **undergrads** about **8-10 minutes** for your overview and then subsequent discussion (**3-4 minutes**). **Grad students** will be expected to undertake a more thorough analysis with an approximately **15 minute overview plus 5-10 minute discussion**.

Name	Article
Ying Chen	Kinlock et al. 2018. Explaining global variation in the latitudinal diversity gradient: Meta-analysis confirms known patterns and uncovers new ones. <i>Global Ecology and Biogeography</i> 27:125–141.
Chloe Forde-Lyons	Daru et al. 2018. Unravelling the evolutionary origins of biogeographic assemblages. <i>Diversity and Distributions</i> 24: 313-324.
Shannon Eadie	Barratt et al. 2017. Environmental correlates of phylogenetic endemism in amphibians and the conservation of refugia in the Coastal Forests of Eastern Africa. <i>Diversity and Distributions</i> 23: 875-887.
Arjun Augustine	Linder. 2014. The evolution of African plant diversity. <i>Frontiers in Ecology and Evolution</i> 2 DOI=10.3389/fevo.2014.00038
Mackenzie Quinn	Pringles et al. 2010. Spatial pattern enhances ecosystem functioning in an African savanna <i>PLoS Biology</i> 8: 5 https://doi.org/10.1371/journal.pbio.1000377
Sherry Shen	Githumbi et al. 2018. Pollen, people and place: Multidisciplinary perspectives on ecosystem change at Amboseli, Kenya. <i>Frontiers in Earth Science</i> 5: UNSP 113 DOI: 10.3389/feart.2017.00113

Sydney Smith	Lodder et al. 2018. A 5000-yr record of Afromontane vegetation dynamics from the Drakensberg Escarpment, South Africa. <i>Quaternary International</i> 470: 119-129.
Hayden Fargo	M'mboroki et al. 2018. Climate change impacts detection in dry forested ecosystem as indicated by vegetation cover change in Laikipia, of Kenya. <i>Environmental Monitoring and Assessment</i> 190 DOI: 10.1007/s10661-018-6630-6
Amber Fedus	McClure et al. 2018. State of the world's raptors: Distributions, threats, and conservation recommendations. <i>Biological Conservation</i> 227: 390-402.
Silvi Raud	Buschke et al. 2018 The conservation status of African vertebrates is unrelated to environmental and spatial patterns in their geographic ranges. <i>Biodiversity and Conservation</i> 27: 567-582.
Kimberly Bray	Pacifici et al. 2018. A framework for the identification of hotspots of climate change risk for mammals. <i>Global Change Biology</i> 24: 1626-1636.
Damian Bourne	Newmark & McNeally. 2018. Impact of habitat fragmentation on the spatial structure of the Eastern Arc forests in East Africa: Implications for biodiversity conservation. <i>Biodiversity and Conservation</i> 27: 1387–1402.
Nell Peterson	Lindsey et al. 2013. The bushmeat trade in African savannas: Impacts, drivers, and possible solutions. <i>Biological Conservation</i> 160: 80-96.
Charlotte Rozon	Kibet & Nyamweru. 2008. Cultural and biological heritage at risk; The case of the Rabai kaya forests in Coastal Kenya. <i>Journal of Human Ecology</i> 24: 287-295.
Lexly Aberilla	Lee & Bond. 2018 Quantifying the ecological success of a community-based wildlife conservation area in Tanzania. <i>Journal of Mammalogy</i> 99: 459-464.
Elaina Geauvreau	Melubo & Carr. 2019. Developing indigenous tourism in the bomas: critiquing issues from within the Maasai community in Tanzania, <i>Journal of Heritage Tourism</i> 14: 219-232.
David Lougheed	Jantz et al. 2016. Landsat ETM+ and SRTM data provide near real-time monitoring of chimpanzee (<i>Pan troglodytes</i>) habitats in Africa. <i>Remote Sensing</i> 8: 427. doi.org/10.3390/rs8050427