

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 I have chosen a series of peer-reviewed articles that run this gamut. I 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, I 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. I 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, I 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 and lead an approximately **15 minute discussion plus 5 minutes**.

Name	Article
Hannah Driver	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.
Katie Birchard	Daru et al. 2018. Unravelling the evolutionary origins of biogeographic assemblages. <i>Diversity and Distributions</i> 24: 313-324.
Lila Colston-Nepali	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.
Wenxi Feng	Linder. 2014. The evolution of African plant diversity. <i>Frontiers in Ecology and Evolution</i> 2 DOI=10.3389/fevo.2014.00038
Peiwen Li	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
Danya Yaremchuk	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

Chloe Robinson	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.
Julia Yang	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
Quinn Curran	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.
Nestor Grandal	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.
Zoebelle Flores	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.
Joaquin Sanchez de Lozada	Symes et al. 2018. The gravity of wildlife trade. <i>Biological Conservation</i> 218: 268-276.
Nicola Shaw	Lindsey et al. 2013. The bushmeat trade in African savannas: Impacts, drivers, and possible solutions. <i>Biological Conservation</i> 160: 80-96.
Aerina Bradley	Kibet and 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.
Karen Ong	Lee & Bond. 2018 Quantifying the ecological success of a community-based wildlife conservation area in Tanzania. <i>Journal of Mammalogy</i> 99: 459-464.