



Charles Nunn



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### Ecology and Evolution of Infectious Disease in Primates and Other Mammals

**Research emphasis:**

I use evolutionary approaches to understand and improve human and animal health. My research group and I investigate the ecology and evolution of infectious disease, drivers of variation in sleep, and the links between ecology, evolution and global health. I am actively involved in the field of evolutionary medicine. I address questions in these areas using phylogenetic methods, mathematical modeling, and through fieldwork in Madagascar, Kenya and other locations.

**Application:**

- Disease emergence at the human-wildlife interface
- Habitat disturbance and infectious disease
- Spread of disease in wildlife
- Comparative studies of infectious disease across species

**Collaboration potential:**

- Agent-based models of disease spread
- Ecological and social networks
- Infectious disease in primates
- Phylogenetic and comparative studies

**Selected publications:**

Kappeler, P.M. and C.L. Nunn, editors (2015). Theme Issue on the Health-Sociality-Fitness Nexus. *Philosophical Transactions of the Royal Society B. Biological Sciences*.

Gómez, J.M., Nunn, C.L. and Verdú, M. (2013) Centrality in primate-parasite networks reveals the potential for the transmission of emerging infectious diseases to humans. *Proceedings of the National Academy of Sciences USA* 119:7738-7741.

Young, H., R. Griffin, C. Wood, and C.L Nunn (2013). Does habitat disturbance increase infectious disease risk for primates? *Ecology Letters* 16:656-663.

Nunn, C.L. and S.M. Altizer (2006). *Infectious Diseases in Primates: Behavior, Ecology and Evolution*. Oxford University Press (Series in Ecology and Evolution).