Department of Life Science

Wildlife ecology, Niche variation, Isotope ecology, Niche modeling

Wildlife is intimately connected to human. From apex predators to large herbivores and small mammals, wildlife species play many different roles in both natural and manmade ecosystems. My research interests are in wildlife ecology and conservation, with a primary focus on niche variation of mammals and birds. In recent years, my lab has been using isotope niche, climate niche and functional traits as proxies to examine how niche variation at individual, population and species level may explain patterns in individual performance, demographic rates, and species coexistence.

Techniques used in study

Field manipulative experiments; mark-capture-recapture (MCR); ecological niche modeling (ENM); species distribution modeling (SDM); stable isotope analysis

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PhD in Environmental Science, University of Virginia, VA, USA

Funding: Ministry of Science and Technology





Publications

- Shaner PL, Yu AY, Li SH & Hou CH. 2018. The effects of food and parasitism on reproductive performance of a wild rodent. Ecology and Evolution, 8, 4162-4172.
- Shaner PL, Tsao TH, Lin RC, Liang W, Yeh CF, Yang XJ, Lei FM, Zhou F, Yang CC, Hung LM, Hsu YC & Li SH. 2015. Climate niche differentiation between two passerines despite ongoing gene flow. Journal of Animal Ecology, 84, 829-839.
- Shaner PL, Wu SH, Ke L & Kao SJ. 2013. Trophic niche divergence reduces survival in an omnivorous rodent. Evolutionary Ecology Research, 15, 933-946.

