Department of Life Science Herpetology and Raptor Research

We aim to study taxonomy, ecology, and evolutionary biology of amphibians and reptiles of Taiwan. This journey starts with molecular phylogenetics and population genetics, which facilitate the discovery of new species and huge genetic divergence across the island. We further use behavioral ecology approaches to investigate signal transmission, reproductive isolation, and mating systems between closely related species. In the meanwhile, we work on migration, home range, urban ecology, as well as conservation biology of several raptors and owls.

Techniques used in study

Field works, sample collections, sequencing, phylogenetic analyses, behavioral experiments, and acoustic analyses.

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Funding: Ministry of Science and Technology





Publications

- 1. Chang, KX, BH Huang, MX Luo, CW Huang, SP Wu, HN Nguyen, SM Lin*. (2021) Niche partitioning among three snail-eating snakes revealed by dentition asymmetry and prey specialization. *Journal of Animal Ecology*.
- 2. Hsiao, YW, HY Tseng, HN Nguyen, SM Lin*. (2020) Asymmetric acoustic signal recognition led to asymmetric gene flow between two parapatric frogs. *Zoological Journal of the Linnean Society* XX, 1–14.
- Nguyen, HN, CW Lu, JH Chu, LL Grismer, CM Hung, SM Lin*.
 (2019) Historical demography of four gecko species specializing in boulder cave habitat – its implications in the evolutionary dead end hypothesis and conservation.

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