YUCHEOL SHIN

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EDUCATION

Ongoing Ph.D. Comparative Biology

Richard Gilder Graduate School, American Museum of Natural History (AMNH), New York, NY, USA

2016 – 2024 B.S. Biological Sciences

Kangwon National University, Chuncheon, South Korea

Thesis: Pleistocene range dynamics of the two distantly related lungless salamanders endemic to the Korean Peninsula

Advisor: Dr. Frank T. Burbrink

Advisor: Dr. Daesik Park

Advisor: Dr. Jenny Duggan

2018 Study Abroad, Biology

California State University, Monterey Bay, Seaside, CA, USA

Project: Comparing the efficiency of different survey methods for detecting herpetofauna at the UC Fort Ord Natural Reserve

SELECTED PUBLICATIONS

(All publications are available from: https://www.researchgate.net/profile/Yucheol Shin)

- **14.** JY Jeon, **Y Shin**, AJ Mularo, X Feng, JA DeWoody. 2024. The integration of whole-genome resequencing and ecological niche modeling to conserve profiles of local adaptation. Diversity and Distributions 30: e13847.
- **13.** I-K Park, **Y Shin,** H-J Baek, J Kim, D-I Kim, M Seok, Y Oh, D Park. 2024. Establishment potential across South Korea for two gecko species, *Gekko japonicus* and *G. swinhonis*, adapted to different climates. NeoBiota 93: 39-62.
- **12.** A Borzée, **Y Shin**, Y Bae, D Jeong, H Amin, M-S Min, SN Othman. 2024. From Korean to northeast Asian endemicity: on the occurrence of *Pelophylax chosenicus* along the Eastern Coastal Yellow Sea. Frontiers of Biogeography 16: e62301.
- **11. Y Shin***, K Heo*, SN Othman, Y Jang, M-S Min, A Borzée. 2024. Tracing the geographic origin of a nonnative Redbanded Snake (Colubridae: *Lycodon rufozonatus*) found on Jeju Island, Republic of Korea. Herpetologica 80: 30-39.
- **10.** J Li, **Y Shin**, M Hong, Y Jang, A Borzée. 2023. Is ultra-violet fluorescence a trait related to breeding in the Mongolian racerunner (*Eremias argus*; Lacertidae, Reptilia)? Journal of Biological Research Thessaloniki 30: 3.
- **9. Y Shin**, K Kim, J Groffen, D Woo, E Song, A Borzée. 2022. Citizen science and roadkill trends in the Korean herpetofauna: the importance of spatially biased and unstandardized data. Frontiers in Ecology and Evolution 10: 944318.
- **8.** SN Othman, **Y Shin**, H-T Kim, M-F Chuang, Y Bae, J Hoti, Y Zhang, Y Jang, A Borzée. 2022. Evaluating the efficiency of popular species identification methods, and comparative workflow using morphometry and barcoding bioinformatics for taxonomy and origin of traded cryptic brown frogs. Global Ecology and Conservation 38: e02253.
- **7.** A Borzée, **Y Shin**, N Poyarkov, JY Jeon, HJ Baek, CH Lee, J An, YJ Hong, M-S Min. 2022. Dwindling in the mountains: description of a critically endangered and microendemic *Onychodactylus* species (Amphibia, Hynobiidae) from the Korean Peninsula. Zoological Research 43: 750–755.
- **6. Y Shin**, M-S Min, A Borzée. 2021. Driven to the edge: Species distribution modeling of a Clawed Salamander (Hynobiidae: *Onychodactylus koreanus*) predicts range shifts and drastic decrease of suitable habitats in response to climate change. Ecology and Evolution 11: 14669-14688.

- **5. Y Shin**, Y Jang, A Borzée. 2021. Snakebite envenomings in the Republic of Korea from the 1970s to the 2020s: a review. Toxicon 196: 8-18.
- **4.** Y Shin*, KR Messenger*, KS Koo, SC Lee, M Hou, A Borzée. 2021. How threatened is *Scincella huanrenensis*? An update on threats and trends. Conservation 1: 58-72.
- **3.** D Macias, **Y Shin**, A Borzée. 2021. An update on the conservation status and ecology of Korean terrestrial squamates. Journal for Nature Conservation 60: 125971.
- **2. Y Shin**, Y Jang, SJR Allain, A Borzée. 2020. Catalogue of herpetological specimens of the Ewha Womans University Natural History Museum (EWNHM), Republic of Korea. ZooKeys 965: 103-139.
- **1.** A Borzée, KR Messenger, S Chae, D Andersen, J Groffen, YI Kim, J An, SN Othman, K Ri, TY Nam, Y Bae, J-L Ren, J-T Li, M-F Chuang, Y Yi, **Y Shin**, T Kwon, Y Jang, M-S, Min. 2020. Yellow sea mediated segregation between North East Asian *Dryophytes* species. PLoS ONE 15: e0234299.

PRESENTATIONS

- * denotes the presenter. All delivered in English unless stated otherwise.
- **Y Shin***, A Borzée. Establishment potential of non-native brown frogs (*Rana*) in the Republic of Korea. Oral presentation. 15th Student Conference on Conservation Science-New York (SCCS-NY). American Museum of Natural History, New York, USA.
- **Y Shin***, A Borzée, D Park. Climatic data sources influence the prediction of past habitat suitability and niche comparisons for two distantly related lungless salamanders. Oral presentation. 10th World Congress of Herpetology. Kuching, Sarawak, Borneo.
- Y Shin*, SN Othman, DB Kohler, I Maslova, K Messenger, A Borzée. Contributions to the knowledge of pitvipers (genus *Gloydius*) in the Democratic People's Republic of Korea. Poster. 10th World Congress of Herpetology. Kuching, Sarawak, Borneo.
- 2024 H Amin*, SN Othman, Y Shin, M-S Min, KR Messenger, A Movahedi, D Ghosh, DB Kohler, VK Prasad, X Zhang, Y Yi, Y Jang, H Ruan, A Borzée. An integrative analysis for the reconsideration of species boundaries in East Asian *Pelophylax* species. Oral presentation. 10th World Congress of Herpetology. Kuching, Sarawak, Borneo.
- VK Prasad*, A Ramachandran, X Zhang, Y Shin, R Rastogi, M Rais, B Shrestha, D Andersen, D Kohler, G Shahabuddin, KP Dinesh, A Borzée. Climatic modeling predicts high-elevation endemic amphibians habitat replacement by expanding generalist widespread amphibians in the Himalayas. Oral presentation. 10th World Congress of Herpetology. Kuching, Sarawak, Borneo.
- **Y Shin***. Where did you come from? Using molecular phylogenetics to trace the geographic origin of a non-native Red-banded Snake (*Lycodon rufozonatus*) found on Jeju Island, Republic of Korea. Oral presentation [in Korean]. KNU College of Natural Sciences Undergraduate Research Competition.
- **Y Shin***. Pleistocene range dynamics of the two distantly related lungless salamanders endemic to the Korean Peninsula. Oral presentation [in Korean]. KNU Department of Biological Sciences Senior Research Thesis Presentation.
- **Y Shin***, D Park. Pleistocene range dynamics of the two distantly related lungless salamanders endemic to the Korean Peninsula. Poster. The 10th EAFES International Congress. Jeju, Republic of Korea.
- **Y Shin***, K Kim, J Groffen, A Borzée. Citizen science and roadkill trends in the Korean herpetofauna. Poster. 13th Student Conference on Conservation Science-New York (SCCS-NY). American Museum of Natural History, New York, USA.

- Y Shin*, M-S Min, A Borzée. Distribution modeling of *Onychodactylus koreanus* predicts drastic decrease of suitable habitats in response to climate change. Poster. Joint Meeting of Ichthyologists and Herpetologists. Phoenix, Arizona, USA (SSAR George B. Rabb Undergraduate Poster Award).
- JY Jeon*, Y Shin, M-S Min, DK Lee. The effects of climate change on the distribution of Gori Salamander (*Hynobius yangi*). Oral presentation [in Korean]. Meetings of the Korean Society of Climate Change Research. Suwon, Republic of Korea (Best Poster Presentation Award).
- **Y Shin***, Y Jang, A Borzée. A metanalysis of snakebites in South Korea: bridging the knowledge gap in snakebite envenomation. Poster. 9th World Congress of Herpetology. Dunedin, New Zealand.
- **Y Shin***, JM Duggan. Comparing survey methods and habitat associations for herpetofauna at the UC Fort Ord Natural Reserve. Poster. The Wildlife Society Annual Wildlife Symposium. San Luis Obispo, California, USA.
- **Y Shin***, JM Duggan. Comparing efficiency of different survey methods for detecting snakes at the UC Fort Ord Natural Reserve: preliminary observations. Poster. 5th Annual Summer Research Symposium, California State University, Monterey Bay. Seaside, California, USA.

FELLOWSHIPS, GRANTS, AND AWARDS

2023 Excellent Presentation Award (200,000 KRW). KNU College of Natural Sciences Undergraduate Research Competition 2022 SSAR Roger Conant Grant-in-Herpetology, Undergraduate Research (500 USD). Society for the Study of **Reptiles and Amphibians** 2022 KNU Foundation Scholarship (1,140,500 KRW). Kangwon National University 2022 Scholarship for Outstanding Academic Performance (862,000 KRW). Kangwon National University 2021 George B. Rabb Undergraduate Poster Award (250 USD). Society for the Study of Amphibians and Reptiles 2021 Best Poster Presentation Award. The Korean Society of Climate Change Research 2018 Undergraduate Summer Research Equipment Grant (390 USD). Undergraduate Research Opportunities Center, California State University, Monterey Bay 2018 KNU Learning Core Program Student Mentor Award (650,000 KRW). Kangwon National University 2018 BEST KNU Scholarship - Highest academic honors (2,101,000 KRW). Kangwon National University Scholarship for Outstanding Academic Performance (1,725,000 KRW). Kangwon National University 2017 BEST KNU Scholarship - Highest academic honors (2,101,000 KRW). Kangwon National University 2017 BEST KNU Scholarship - Highest academic honors (2,101,000 KRW). Kangwon National University 2016 2016 Freshmen English Proficiency Award - 1st place (100,000 KRW). Kangwon National University