

Yichao Zeng 曾逸超

Last updated 11/08/2022
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Education

University of Arizona, Tucson, AZ, USA Aug. 2019 – Present

Ph.D., Ecology and Evolutionary Biology.

- Committee: John J. Wiens (Chair), Judith L Bronstein, Michael J. Sanderson, Régis Ferrière, Paulo R. Guimarães Jr.

Universidade de São Paulo, Brazil Sep. 2021 – Jan, 2022

- Visiting Ph.D. student focusing on theoretical ecology and ecological networks, with Paulo R. Guimarães Jr.

University of Florida, Gainesville, FL, USA Aug. 2017 – May 2019

M.Sc., Wildlife Ecology and Conservation.

- Thesis: Medicinal herb collection and wildlife conservation: qualitative and quantitative inferences from participatory research in Wolong Nature Reserve.
- Committee: Vanessa Hull (Chair), Robert A. Mcleery, Mathieu Basille, Jindong Zhang

Peking University, Beijing, China Sep. 2013 – July 2017

B.S., Biological Science.

- Thesis: Phylogeography of the Indochinese and the keeled box turtles (*Cuora* spp.).
- Advisor: Dr. Shu-jin Luo.

Research Experience

University of Arizona, Tucson, AZ Aug. 2019 – Present

Ph.D. Candidate, *Department of Ecology and Evolutionary Biology*.

University of Florida, Gainesville, FL Aug. 2017 – May 2019

Graduate Research Assistant, *Department of Wildlife Ecology and Conservation*.

- Used field surveys to look at the effects of anthropogenic activities on wildlife occurrence in protected areas.

Peking University, Beijing, China Oct. 2015 – July 2017

Undergraduate Research Assistant, *School of Life Sciences*.

- Used wet lab and dry lab techniques to look at intraspecific phylogenetic structures of freshwater turtles

University of California, Davis, Davis, CA

June 2016 – Sept. 2016

Undergraduate Intern, *Department of Entomology and Nematology*.

- Used manipulative greenhouse experiment to look at priority effects in monarch-milkweed interactions

Peking University, Beijing, China

Sept. 2014 – Mar. 2015

Undergraduate Research Assistant, *School of Life Sciences*.

- Morphologically identified butterfly specimen collected in Sichuan, China.

Other Responsibilities & Activities

- Graduate Student Representative. Dept. of Ecology & Evolutionary Biology, U. Arizona. Jan. 2022 – Dec. 2022 (expected)
- Advisor, Palm Drive (棕榈大道, www.palmdrive.cn). Assisting students with applications to Ph.D. programs in ecology and/or evolutionary biology. Mar. 2020 – Present.
- Fieldwork Leader. Beijing Butterfly Monitoring Project, Peking University. 2017.
- Volunteer. Monitoring Milkweed-Monarch Interactions for Learning and Conservation (MMILC) Project, UC Davis. 2016.
- Instructor. Beijing Primary and Middle School Birding Competition, Dongcheng Youth S&T Museum, Beijing, China. 2016.
- 1st Award. Beijing College Birding Competition. China Biodiversity Conservation and Green Development Foundation. 2015.
- Volunteer. Chongzuo Biodiversity Research Institute, Peking University. 2015.
- Volunteer. Lab of Population Genetics, Peking University. 2015.
- Person in Charge. GreenLife Society, Peking University. 2014 – 2015.

Peer-reviewed Publications

Yang, L.H., & **137 coauthors**. 2022. Different factors limit early- and late-season windows of opportunity for monarch development. *Ecology and Evolution*. In press.

Sanderson, M.J., Búrquez, A., Copetti, D., McMahon, M.M., **Zeng, Y.**, Wojciechowski, M.F., 2022. Origin and diversification of the saguaro cactus (*Carnegiea gigantea*): a within-species phylogenomic analysis. *Systematic Biology*. <https://doi.org/10.1093/sysbio/syac017>.

Zeng, Y., Wiens J.J., 2021. Do mutualistic interactions last longer than antagonistic interactions? *Proceedings of the Royal Society, Series B*, 288, pp. 20211457. 20211457. <https://doi.org/10.1098/rspb.2021.1457>.

Hou, J., Hull, V., Connor, T., Yang, H., Gao, J., Zhao, F., Liao, Y., Chen, S., Huang, J., **Zeng, Y.** and Zhou, S., 2021. Scent communication behavior by giant pandas. *Global Ecology and*

Conservation, 25, p.e01431. <https://doi.org/10.1016/j.gecco.2020.e01431>.

Zeng, Y., Wiens J.J., 2021. Species interactions have predictable impacts on diversification. *Ecology Letters*, 24(2), pp.239-248.
<https://doi.org/10.1111/ele.13635>.

Hou, J., He, Y., Yang, H., Connor, T., Gao, J., Wang, Y., **Zeng, Y.**, Zhang, J., Huang, J., Zheng, B. and Zhou, S., 2020. Identification of animal individuals using deep learning: A case study of giant panda. *Biological Conservation*, 242, p.108414.
<https://doi.org/10.1016/j.biocon.2020.108414>.

Zeng, Y., Zhang, J. and Hull, V., 2019. Mixed-method study on medicinal herb collection in relation to wildlife conservation: the case of giant pandas in China. *Integrative Zoology*, 14(6), pp.604-612. <https://doi.org/10.1111/1749-4877.12381>.

Other Publications

Newspaper articles:

Zeng Y., How do interactions between different species impact the generation of biodiversity? China Green Times (中国绿色时报) . February 25, 2021. p.4. Title in original language: 不同物种间的相互作用如何影响生物多样性的形成? (An introduction to Zeng & Wiens 2021 *Ecol. Lett.*, geared toward the general public.)
<http://www.greentimes.com/greentimepaper/page/1/2021-02-25/04/28421614212831452.pdf>

Awards, Grants & Scholarships

William A. Calder III Memorial Scholarship, Department of Ecology & Evolutionary Biology, University of Arizona (\$5000). 2022.

Robert W. Hoshaw Memorial Award, Department of Ecology & Evolutionary Biology, University of Arizona (Oldest and most prestigious departmental award for grad students, \$1823.83). 2022.

Graduate Student Awards - Excellence in Scholarship, University of Arizona College of Science (\$100). 2021.

Tropical Conservation and Development Field Research Grant, Center for Latin American Studies, University of Florida (\$2,000). Research proposal entitled “Modeling distribution of giant pandas in a coupled human and natural system using GIS and participatory mapping”. 2018.

Jennings Scholarship, University of Florida (\$1,350). 2018.

Graduate Student Council Travel Grant, Univ. of Florida (\$350). 2018.

Wildlife Graduate Student Association Student Travel Award, Univ. of Florida (\$250). 2018.

Institute of Food and Agricultural Sciences Travel Grant, Univ. of Florida (\$250). September 2018.

Institute of Food and Agricultural Sciences Travel Grant, Univ. of Florida (\$250). June 2018.
Wildlife Ecology and Conservation Field Research Scholarship, Univ. of Florida (\$2,000). 2017.

Undergraduate Summer Research Grant. School of Life Sciences, Peking University (equivalent to \$4,200). 2016.

Undergraduate Student Conference Travel Grant. School of Life Sciences, Peking University (CNY ¥1,607). 2016.

Contributed talks

Zeng Y, Wiens J. Species interactions have predictable effects on diversification. Evolution Meeting. Online. 2021.

Zeng Y, Zhang J, Hull V. Participatory approaches for quantitative analysis in wildlife research. Ecological Society of America Annual Meeting. New Orleans, LA, USA. 2018.

Zeng Y, Zhang J, Hull V. Modeling changes in giant panda distribution in a coupled human and natural system. Student Conference on Conservation Science, American Museum of Natural History. New York, NY, USA. 2018.

Invited talks

Zeng Y. Testing hypotheses that link macroevolution and species interactions. Graduate program in ecology, University of São Paulo, Brazil. 2021.

Posters

Zeng Y, Wiens J. Macroevolution of species interactions: the biotic-abiotic emergence of specificity, partner shifts, and network dynamic. Congress of the European Society for Evolutionary Biology. Prague, Czech Republic. 2022.

Chen J, Chen X, Liu H, Shen Y, **Zeng Y**, Yin L. Biodiversity survey in Chongzuo examined effects of the white-headed langur (*Trachypithecus leucocephalus*) as a flagship species on habitat conservation. Conservation of China's Tropical Biodiversity Conference. Kunshan, China. 2016.

Work Presented by Colleagues

Gaillard D, **Zeng Y**, Chen H, Lin L, Shi H, Luo S. Eight foot and flower power turtles: a phylogenetic and phylogeographic approach to conservation. 16th Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles. Fort Worth, TX, USA. 2018.

Journal Review

Annals of Botany, PeerJ, Communications Biology

Teaching Experience

University of Arizona, Tucson, AZ, USA Aug. 2019 – Present

Graduate Teaching Assistant.

Course: Genetics (Fall 2019, Fall 2020, & Summer 2021), Introductory Biology Lab (Spring 2020), Diversity of Life (Summer 2020), Marine Biology & Animal Sexual Behavior (Spring 2021 & Fall 2021).

Peking University, Beijing, China Sept. 2015 – July 2016

Undergraduate Teaching Assistant, *School of Life Sciences*.

Course: Scientific Research Professional Skills.

Workshops attended

Species distribution modeling workshop, Peking University-ETH Zurich, Beijing, China, 2018

Additional Information

- TOEFL (2018, internet-based):112 (speaking score: 26)
- GRE (2016): Quantitative- 170 (96th percentile), Verbal- 154 (65th percentile), Writing- 3.5
- Driver's license: Class E (United States), C1 (P.R. China, Manual)