

Chao Song

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EDUCATION

2012–2018 Ph.D. in Ecology, University of Georgia
Advisor: Ford Ballantyne IV
2013–2016 M.S. in Statistics, University of Georgia
Advisor: Daniel B. Hall
2009–2011 M.A. in Ecology and Evolutionary Biology, University of Kansas
Advisor: Ford Ballantyne IV
2005–2009 B.S. in Ecology, Peking University
Advisor: Jin-sheng He
2006–2009 B.A. in Economics, Peking University

PROFESSIONAL EXPERIENCES

2022– Professor
College of Ecology, Lanzhou University
2020–2021 Research Associate
Department of Earth and Environmental Sciences, Michigan State University
Advisor: Jay P. Zarnetske
2018–2020 Research Associate
Department of Fisheries and Wildlife, Michigan State University
Advisor: James R. Bence

HONORS AND AWARDS

Best Student Paper Award, Sino-Ecologists Association Overseas, 2019.
Odum School of Ecology Best Student Paper Award, University of Georgia, 2018.
Endowment Award, Society for Freshwater Science, 2018.
Meyer–Helfman Graduate Travel Award, University of Georgia, 2017.
Kenneth B. Armitage Award for Excellence in Teaching, University of Kansas, 2012.
National Scholarship for Undergraduate, Ministry of Education of China, 2009.

GRANTS

Excellent Young Scientists Fund (Overseas), National Natural Science Foundation of China, 2022–2025. Principle Investigator.

TEACHING

Michigan State University: Introduction to Meta-analysis in Ecology (PLB 809).

University of Georgia: Ecology lab (ECOL 3500L).

University of Kansas: Principles of Molecular and Cellular Biology lab (BIOL 150); Principles of Organismal Biology lab (BIOL 152); Introduction to Biostatistics lab (BIOL 570).

PROFESSIONAL SERVICES

Journal reviewer: Agriculture, Ecosystem & Environment; Ecology Letters; Ecological Processes; Environmental Science: Processes and Impacts; Environmental Science & Technology; Freshwater Science; Hydrobiologia; Journal of Geophysical Research: Biogeoscience; Journal of Plant Ecology; Journal of Plant Nutrition and Soil Science; Land Degradation & Development; Methods in Ecology and Evolution; Scientific Reports.

Newsletter editor, Sino–Ecologists Association Overseas, 2014–2022.

Odum School of Ecology graduate program committee, 2015–2016.

Odum School of Ecology seminar committee, 2015–2016.

PUBLICATIONS

Wolheim, W. M., T. K. Harms, A. L. Robinson, L. E. Koenig, A. M. Helton, C. Song, W. B. Bowden, and J. C. Finlay (2022) Superlinear scaling of riverine biogeochemical function with watershed size. *Nature Communications*, 13:1230.

Song, C., S. D. Peacor, C. W. Osenberg, and J. R. Bence (2022) An assessment of statistical methods for non-independent data in ecological meta-analysis: Reply. *Ecology*, 103(1): e03587.

Wang, Y., C. Song, H. Liu, S. Wang, H. Zeng, C. Luo, and J.-S. He (2021) Precipitation determines the magnitude and direction of interannual responses of soil respiration to experimental warming. *Plant and Soil*, 458: 75–91.

Song, C., S. D. Peacor, C. W. Osenberg, and J. R. Bence (2020) An assessment of statistical methods for non-independent data in ecological meta-analysis. *Ecology*, 101(12): e03184.

Rüegg, J., D. T. Chaloner, F. Ballantyne, P. S. Levi, C. Song, J. L. Tank, S. D. Tiegs, and G. A. Lamberti (2020) Understanding the relative roles of salmon spawner enrichment and disturbance: a high-frequency, multi-habitat field data and modeling approach. *Frontiers in Ecology and Evolution*, 8: 19.

- Song, C., W. K. Dodds, J. Rüegg, A. Argerich, C. L. Baker, W. B. Bowden, M. M. Douglas, K. J. Farrell, M. B. Flinn, E. A. Garcia, A. M. Helton, T. K. Harms, S. Jia, J. B. Jones, L. E. Koenig, J. S. Kominoski, W. H. McDowell, D. McMaster, S. P. Parker, A. D. Rosemond, C. M. Ruffing, K. R. Sheehan, M. T. Trentman, M. R. Whiles, W. M. Wollheim, and F. Ballantyne (2018) Continental-scale decrease in net primary productivity in streams due to climate warming. *Nature Geoscience*, 11(6): 415–420.
- Wang, Y., C. Song, L. Yu, S. Mi, S. Wang, H. Zeng, C. Fang, J. Li, and J.-S. He (2018) Convergence in temperature sensitivity of soil respiration: evidence from the Tibetan alpine grasslands. *Soil Biology and Biochemistry*, 122: 50–59.
- Koenig, L. E., C. Song, W. M. Wollheim, J. Rüegg, and W. H. McDowell (2017) Nitrification increases nitrogen export from a tropical river network. *Freshwater Science*, 36(4): 698–712.
- Geng, Y., F. Baumann, C. Song, M. Zhang, Y. Shi, P. Kühn, T. Scholten, and J.-S. He (2017) Increasing temperature reduces the coupling between available nitrogen and phosphorus in soils of Chinese grasslands. *Scientific Reports*, 7: 43524.
- Song, C., W. K. Dodds, M. T. Trentman, J. Rüegg, and F. Ballantyne (2016) Methods of approximation influence aquatic ecosystem metabolism estimates. *Limnology and Oceanography: Methods*, 14(9): 557–569.
- Song, C., F. Ballantyne, and V. H. Smith (2014) Enhanced dissolved organic carbon production in aquatic ecosystems in response to elevated atmospheric CO₂. *Biogeochemistry*, 118: 49–60.
- Shi, Y., F. Baumann, Y. Ma, C. Song, P. Kühn, T. Scholten, and J.-S. He (2012) Organic and inorganic carbon in the topsoil of the Mongolian and Tibetan grasslands: pattern, control and implications. *Biogeosciences*, 9(6): 2287–2299.