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

Germplasm resource collection, herbage improvement, and close-to-nature restoration of degraded grasslands, Gansu Provincial Science and Technology Major Project, Ministry of Science and Technology of Gansu Province, 2023-2026, Principle Investigator.

Ecosystem processes in the alpine terrestrial–aquatic meta-ecosystems, Excellent Young Scientists Fund (Overseas), National Natural Science Foundation of China, 2022–2025, Principle Investigator.

TEACHING

Lanzhou University: Scientific Writing and English for Academic Research (416133001).

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

College of Ecology teaching advisory committee, Lanzhou University, 2022–present.

College of Ecology academic degree evaluation committee, Lanzhou University, 2022–present.

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

Odum School of Ecology graduate program committee, University of Georgia, 2015-2016.

Odum School of Ecology seminar committee, University of Georgia, 2015–2016.

PUBLICATIONS

Shogren, A. J., J. P. Zarnetske, B. W. Abbott, A. L. Grose, A. F. Rec, J. Nipko, C. Song, J. A. O'Donnell, and W. B. Bowden. (2024) Hydrology controls dissolved organic carbon and nitrogen export and post-storm recovery in two Arctic headwaters. Journal of Geophysical Research: Biogeosciences, 129(2): e2023JG007583.

Zhang, C., C. Song, D. Wang, W. Qin, B. Zhu, F. Li, Y. Wang, and W. Ma. (2023) Precipitation and land use alter soil respiration in an Inner Mongolian grassland. Plant and Soil, 491: 101–114.

Pappalardo, P., C. Song, B. A. Hungate, and C. W. Osenberg. (2023) A meta-evaluation of the quality of reporting and execution in ecological meta-analyses. PLOS ONE, 18(10): e0292606.

Ma, X., S. Jiang, Z. Zhang, H. Wang, C. Song, J.–S. He. (2023) Long-term collar deployment leads to bias in soil respiration measurements. Methods in Ecology and Evolution, 14(3): 981–990.

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 samlon 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 CO_2. 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.