

# Qingzhou Zhao







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# **EDUCATION**

2020.09 – 2025.06 **PhD in Ecology**, Nanjing Agricultural University, College of Resources and Environmental Sciences (Supervisor: Shuijin Hu)

2022.09 – 2024.09 **Joint PhD in Ecology**, ETH Zürich, Department of Environmental Systems Science (Supervisor: Thomas Crowther)

2017.09 – 2020.09 **MSc in Ecology**, Nanjing Agricultural University, College of Resources and Environmental Sciences (Supervisor: Shuijin Hu)

2012.09 – 2016.09 Bachelor of Science in Agriculture with a specialization in Plant Protection at Hainan University, College of Tropical Crops

### RESEARCH INTERESTS

- Aboveground-belowground nutrient strategies under global change
- Mycorrhizal fungal biodiversity and ecosystem functionality

#### RESEARCH & PROFESSIONAL EXPERIENCES

- 2022 2024 Processing big datasets of mycorrhizal fungal sequences across the global scale
- 2017 2022 Fieldwork coordination and operation exploring global change effects on ecosystem C, N cycling each year in the Qinghai-Tibetan Plateau

# **Advanced techniques**

- Processing large-scale datasets from TRY, GBIF, GRooT and others using R
- Utilizing stable isotopes to explore plant-soil C and N dynamics

 Physical & chemical analysis and application of cutting-edge scientific instruments (IRMS, ICP-OES, TOC analyzer, Elemental Analyzer, SEAL AA3, FTIR spectra, WinRHIZO)

# **SCHOLARSHIPS & AWARDS**

2024.12	Best Graduate Paper Award of Academician Li-Bo. International Symposium on
	Modern Ecology Series (ISOMES) (RMB 2,000)
2024.12	The Most Influential Graduate Student. Winfast Charity Foundation (RMB 10,000)
2022.07	State Scholarship Fund to study in Switzerland. CSC (CHF 50,400, 2 years)
2020, 2021	The Second Prize Scholarship for Ph.D. Student. NAU (RMB 15,000 /year)
2020.06	University President Scholarship for Top-notch Master Student. NAU, (RMB 30,000)
2020.06	Excellent Master's Thesis; Excellent Graduate Student. $NAU$
2019.12	Outstanding Poster, The 18th Conference of Ecological Society of China. ESC
2019.09	Wu Yi-Wen Scholarship. Education Development Foundation of NAU (RMB 5,000)
2018, 2019	The First Prize Scholarship for Master Student. NAU (RMB 12,000 /year)

#### **PUBLICATIONS**

- Qingzhou Zhao, Gregoire Freschet, Tingting Tao, Gabriel Reuben Smith, Peng Wang, Lingyan Hu, Miaojun Ma, David Johnson, Thomas Crowther, Shuijin Hu (2024). Resolving the Intricate Effects of Multiple Global Change Drivers on Root Litter Decomposition. *Global* Change Biology <a href="https://doi.org/10.1111/gcb.17547">https://doi.org/10.1111/gcb.17547</a>
- Qingzhou Zhao, Peng Wang, Gabriel Reuben Smith, Lingyan Hu, Xupeng Liu, Tingting
  Tao, Miaojun Ma, Colin Averill, Gregoire Freschet, Thomas Crowther, Shuijin Hu (2024).
  Nitrogen redistribution and seasonal trait fluctuation facilitate plant N conservation and
  ecosystem N retention. *Journal of Ecology*. https://doi.org/10.1111/1365-2745.14246
- 3. **Qingzhou Zhao**, Jin Guo, Meng Shu, Peng Wang, Shuijin Hu (2020) Impacts of drought and nitrogen enrichment on leaf N resorption and root nutrient allocation in four Tibetan plant

- species. Science of The Total Environment https://doi.org/10.1016/j.scitotenv.2020.138106
- Gabriel R. Smith, ... Qingzhou Zhao, Constantin M. Zohner, Thomas W. Crowther (2024)
   Ten simple rules for using large language models in science, version 1.0. PLOS

   Computational Biology 20, e1011767. <a href="https://doi.org/10.1371/journal.pcbi.1011767">https://doi.org/10.1371/journal.pcbi.1011767</a>
- Peng Wang, Jin Guo, Xinyu Xu, Xuebin Yan, Kangcheng Zhang, Yunpeng Qiu, Qingzhou Zhao, Kailing Huang, Xi Luo, Fei Yang, Hui Guo, Shuijin Hu. 2020. Soil acidification alters root morphology, increases root biomass but reduces root decomposition in an alpine grassland.
   Environmental Pollution 265, 115016. https://doi.org/10.1016/j.envpol.2020.115016
- Meng Shu, Qingzhou Zhao, Zhen Li, Lin Zhang, Peng Wang, Shuijin Hu. 2019. Effects of global change factors and living roots on root litter decomposition in a Qinghai-Tibet alpine meadow. *Scientific reports*. https://doi.org/10.1038/s41598-019-53450-5
- 7. Peng Wang, Yan Yang, Pu Mou, **Qingzhou Zhao**, Yunbin Li (2018) Local root growth and death are mediated by contrasts in nutrient availability and root quantity between soil patches.

  \*Proceedings of the Royal Society B: Biological Sciences. <a href="https://doi.org/10.1098/rspb.2018.0699">https://doi.org/10.1098/rspb.2018.0699</a>