

Qi Qi

qiqiou1025@gmail.com | +43 67761933294

The University of Vienna | Post-doc

EDUCATION

Tsinghua University, China, 2017.09-2022.01

Ph.D. in Environmental Science and Engineering

Advisor : Yunfeng Yang

China Agricultural University, China, 2014.09-2016.07

M.S. in Environment Engineering

Advisor: Guoxue Li

Shenyang Agricultural University, China, 2010.09-2014.07

B.S. in Environment Engineering

The University of Oklahoma, US, 2018.10-2019.11

Exchange student in Microbiology and Plant Biology

Advisor: Jizhong Zhou

WORK

The university of Vienna, Austria, from 2024.08-now

Post-doc in DOME

Advisor: Shaul Pollak

Shanghai Jiao Tong University, China, from 2022.03-2024.05

Post-doc in International Central for Deep Life Investigation (IC-DLI)

Post-doc in School of Life Science and Biotechnology

Co-advisor: Xiang Xiao

PUBLICATIONS

(1) Xiao Xiang#, Weishu Zhao#, Zewei Song#, **Qi Qi**# (2025). Microbial ecosystems and ecological driving forces in the deepest ocean sediments. **Cell**. 188. 1363-1377.e9. 10.1016/j.cell.2024.12.036. (co-first author)

(2) Qi Qi, et al., More sensitive microbial responses to the interactive effects of warming and altered precipitation in subsoil than topsoil of an alpine grassland ecosystem. **Global Change Biology**. 30. e17487. 10.1111/gcb.17487

(3) **Qi Qi**, et al., Microbially enhanced methane uptake under warming enlarges ecosystem carbon sink in a Tibetan alpine grassland, **Global Change Biology**, 2022, 28(23): 6906-6920.

(4) **Qi Qi**, et al., Microbial functional responses explain alpine soil carbon fluxes under future climate scenarios, **mBio**, 2021,12(1): e00761-20.

(5) **Qi Qi**#, Mengxin Zhao#, et al., The biogeographic pattern of microbial functional genes along an altitudinal gradient of the Tibetan Pasture, **Frontiers in Microbiology**, 2017, 8: 976.

(6) **Qi Qi**, et al., Processing parameters and thermal characteristics of RDF based on municipal solid waste, *China Environmental Science*, 2017, 37(3):1051-1057 (Note: China Environmental Science is included by Ei Compendex)

(7) Qingxia Zhang, Lei Zhou, Yilong Zhao, Shuhong Gao, Yanjun Yang, Qingyun Chen, Wenhui Li, **Qi Qi** et al., Uncovering the virome and its interaction with antibiotic resistome during compost fertilization, **Journal of Hazardous Materials**, 131763 (2023).

(8) Zhengsheng Yu, Qun Gao, Xue Guo, Jinlong Peng, **Qi Qi**, et al., Phylogenetic conservation of soil microbial responses to elevated tropospheric ozone and nitrogen fertilization, **mSystems**, 2023: c00721-00722.

(9) Mingyang Niu, Longhui Deng, Lei Su, Emil Ruff, Na Yang, Min Luo, **Qi Qi**, et al., Methane supply drives prokaryotic community assembly and networks at cold seeps of the South China Sea, **Molecular Ecology**, 2023, 32(3):660-679.

(10) Zhenhua Zhang, Guanghui Wang, Hao Wang, **Qi Qi**, et al., Warming and drought increase but wetness reduces the net sink of CH₄ in alpine meadow on the Tibetan Plateau, **Applied Soil Ecology**, 2021, 167: 104061.

(11) Ying Gao, Junjun Ding, Mengting Yuan, Nona Chiariello, Kathryn Docherty, Chris Field, Qun Gao, Baohua Gu, Jessica Gutknecht, Bruce A. Hungate, Xavier Le Roux, Audrey Niboyet, **Qi Qi**, et al., Long-term warming in a Mediterranean-type grassland affects soil bacterial functional potential but not bacterial taxonomic composition, **npj Biofilms and Microbiomes**, 2021, 7(1): 17.

- (12) Ziyan Qin, Qun Gao, Qiang Dong, Joy D. Van Nostrand, **Qi Qi**, et al., Antibiotic resistome mostly relates to bacterial taxonomy along a suburban transmission chain, **Frontiers of Environmental Science & Engineering**, 2021, 16(3):1-10.
- (13) Jingmin Cheng, Mengxin Zhao, Jing Cong, **Qi Qi**, et al., Soil pH exerts stronger impacts than vegetation type and plant diversity on soil bacterial community composition in subtropical broad-leaved forests, **Plant and Soil**, 2020, 450(1):273-286.
- (14) Mengxin Zhao, Jing Cong, Jingmin Cheng, **Qi Qi**, et al., Soil Microbial Community Assembly and Interactions Are Constrained by Nitrogen and Phosphorus in Broadleaf Forests of Southern China, **Forests**, 2020, 11(3):285.
- (15) Linwei Wu, Xiaoyu Shan, Si Chen, Qiuting Zhang, **Qi Qi**, et al., Progressive microbial community networks with incremental organic loading rates underlie higher anaerobic digestion performance, **mSystems**, 2020, 5(1): e00357-19.
- (16) Qun Gao, Yunfeng Yang, Jiajie Feng, Renmao Tian, Xue Guo, Daliang Ning, Lauren Hale, Mengmeng Wang, Jingmin Cheng, Linwei Wu, Mengxin Zhao, Jianshu Zhao, Liyou Wu, Yujia Qin, **Qi Qi**, et al., The spatial scale dependence of diazotrophic and bacterial community assembly in paddy soil, **Global Ecology and Biogeography**, 2019, 28: 1093-1105.
- (17) Yigang Hu, Zhishan Zhang, Lei Huang, **Qi Qi**, et al., Shifts in soil microbial community functional gene structure across a 61-year desert revegetation chronosequence, **Geoderma**, 2019, 347:126-134.
- (18) Ziming Yang, Sihang Yang, Joy D. Van Nostrand, Jizhong Zhou, Wei Fang, **Qi Qi**, et al., Microbial Community and Functional Gene Changes in Arctic Tundra Soils in a Microcosm Warming Experiment. **Frontiers in Microbiology**, 2017, 8: 1741.

PROJECTS

- Soil carbon cycling project (Vienna)
- Mariana Trench Environment and Ecology Research Project (Shanghai)
- The succession pattern and regulation of soil carbon stability of microbial community in alpine grasslands subjected to long-term warming and precipitation treatments (Beijing)
- The microbial response to warming in the Tundra ecosystem (Oklahoma)

AWARDS AND HONORS

Chenxing Project	2023.03
Outstanding Post-doc, International Central for Deep Life Investigation (IC-DLI)	2023.02
Second Class Scholarship, Tsinghua University	2021.11
Outstanding Member of Graduate Student Union, China Agricultural University	2015.12
Excellent Students Awards, China Agricultural University	2015.12
Second Class Scholarship, China Agricultural University	2015.12

CONFERENCES

2023 IC-DLI Conference	2023.10
Sanya, China, was the host for 2-min representation part	
American society for Microbiology (online)	2023.06
Houston, US, was selected in Rapid Fire Session	
The 11th Symposium on Geological Microbiology	2023.06
Tianjin, China, was selected as a contributed talk entitled "The formation of prokaryotic community in the deep ocean"	
Ecological Society of America Annual Meeting (online)	2022.08
Montreal, Canada, participate	
The 9th Symposium on Geological Microbiology	2021.07
Hefei, China, displayed a poster	
Ecological Society of America Annual Meeting (online)	2020.08

Salt Lake, USA, was selected as a contributed talk entitled “Response of microbial functional composition to long-term warming along a soil depth gradient in Tundra ecosystem”

Ecological Society of America Annual Meeting 2019.08

Louisville, USA, was selected as a contributed talk entitled “Quantifying microbial and plant determinants of soil carbon flux responses to various climate changes”, was the presider of one parallel session entitled “Communities: Traits And Functional Diversity”

The 7th Symposium on Geological Microbiology 2018.06

Shanghai, China, displayed a poster entitled “The biogeographic pattern of microbial functional genes along an altitudinal gradient of the Tibetan pasture”

Annual Meeting of Microbial Ecology Committee of Chinese Society of Ecology 2017.10

Beijing, China, was selected as a talk entitled “Microbial responses to warming and precipitation alteration in the Tibetan alpine ecosystem”

SERVICES

Member of the American Society for Microbiology

Member of Ecological Society of America

Volunteer of the American Society for Microbiology

Host of subsession at 2019 American Society for Microbiology Meeting

Member of annual conference organizing committee, Chinese Society of Microbial Ecology

Teaching assistant of Environmental Genomics

Peer reviewer for FEMS Microbiology Ecology, Soil Ecology Letters, Science of the Total Environment, and The Innovation.