

# YE Huijun

Gender: Female

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## RESEARCH INTERESTS

- Nitrogen biogeochemical cycle
- Interaction between nitrogen and phosphorus
- Stable isotope geochemistry and instrumentation
- Influence of global change on ecosystems

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## CAREER & EDUCATION

- **Postdoc. in Ecology** 01/2022-present  
South China Botanical Garden, Chinese Academy of Sciences, Guangzhou, P. R. China
- **Ph.D. in Environment Science** 09/2017-12/2021  
Sun Yat-Sen University, Guangzhou, P. R. China
- **M.S. in Environment Science** 09/2014-07/2017  
Guizhou University, Guiyang, P. R. China
- **B.E. in Environment Engineering** 09/2010-07/2014  
Wenhua College, Wuhan, P. R. China

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## PUBLICATIONS

- **Ye, H.**, Tang, C., Cao, Y\*, Hou E., 2023. Sources and fates of particulate organic matter in inland waters with complex land use patterns. *Science of the Total Environment*, 162568.
- **Ye, H.**, Tang, C., Cao, Y\*, Li, X., Huang, P., 2022. Contribution of ammonia-oxidizing archaea and bacteria to nitrification under different biogeochemical factors in acidic soils. *Environmental Science and Pollution Research* 29(12), 17209-17222.
- **Ye, H.**, Tang, C., Cao, Y\*, 2021. Sources and transformation mechanisms of inorganic nitrogen: Evidence from multi-isotopes in a rural-urban river area. *Science of the Total Environment*, 148615.
- **Ye, H.**, Zhang, R\*, Wu, P., Han, Z., Zha, X., Li, X., Qin, Y., Shi, J., 2019. Characteristics and Driving Factor of Hydrochemical Evolution in Karst Water in the Critical Zone of Liupanshui Mining Area. *Earth Science* 44(9), 2887-2898.
- **Ye, H.**, Zhang, R\*, Wu, P., Li, X., Qin, Y., Zha, X., Han, Z., 2017. Hydrogeochemical characterization of groundwater and surface water and their influencing factors based on principal component analysis: An example in the Shuicheng basin of Guizhou. *Carsologica Sinica* 36(2), 215-225.
- Zhang, R., Wu, P\*, **Ye, H.**, Li, X., 2021. Hydrogeochemical Characteristics and Quality Assessment of Mine Water in Coalfield Area, Guizhou Province, Southwest China. *Bulletin of Environmental Contamination and Toxicology* 107(6), 1087-1094.
- Li, X., Zhang, R., Li, Q., Wu, P. \*, **Ye, H.**, 2021. Rare earth elements and yttrium (REY) in coal mine drainage from Southwest China: Geochemical distribution and resource evaluation. *Science of The Total Environment* 782.
- Li, X., Wu, P. \*, Han, Z., Zha, X., **Ye, H.**, Qin, Y., 2018. Effects of mining activities on evolution of water quality of karst waters in Midwestern Guizhou, China: evidences from hydrochemistry and isotopic composition. *Environmental Science and Pollution Research* 25(2), 1220-1230.

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## RESEARCH PROJECTS

- **Mechanisms underlying the response of soil N<sub>2</sub>O emission to phosphorus addition in low-subtropical**

- plantations** (GuangDong Basic and Applied Basic Research Foundation, 2023A1515010957) 2023-2025  
Position: Principal Investigator
- **Mechanisms underlying the response of soil nitrogen leaching to phosphorus addition in low-subtropical plantations** (GuangDong Basic and Applied Basic Research Foundation, 2022A1515110926) 2022-2025  
Position: Principal Investigator
- **Effects and mechanisms of nitrogen, phosphorus and potassium addition on productivity of typical low-subtropical plantations** (NSFC 32271644) 2023-2025  
Position: Research Assistant  
Responsibilities: Participating in the field works and analyzing stable isotopes.
- **Sources and transformations of nitrogen in urban rivers in the Greater Bay Area of Guangdong, Hong Kong and Macao: Evidence from multi-phase and multi-form isotopes** (NSFC 32271644) 2021-2024  
Position: Research Assistant  
Responsibilities: Analyzing the  $\delta^{13}\text{C-POM}$ ,  $\delta^{15}\text{N-POM}$ ,  $\delta^{15}\text{N-NO}_3^-$ ,  $\delta^{18}\text{O-NO}_3^-$ ,  $\delta^{15}\text{N-NH}_4^+$ ,  $\delta\text{D-H}_2\text{O}$ ,  $\delta^{18}\text{O-H}_2\text{O}$ , extracting DNA of particulate matters of river waters, drawing geological maps, and writing articles.
- **The process of nitrogen loss in tea planting based on multi-isotopes discrimination** (Natural Science Foundation of Guangdong Province, 2017A030313229) 2017-2020  
Position: Research Assistant  
Responsibilities: Conducting field work, analyzing the  $\delta^{15}\text{N-NO}_3^-$ ,  $\delta^{18}\text{O-NO}_3^-$ ,  $\delta^{15}\text{N-NH}_4^+$ ,  $\delta\text{D-H}_2\text{O}$ ,  $\delta^{18}\text{O-H}_2\text{O}$ , extracting DNA of soils, drawing geological maps, writing reports and articles.
- **Effect of residence time of shallow groundwater on migrations and fates of nitrate nitrogen in karst areas** (NSFC 41501018) 2016-2018  
Position: Research Assistant  
Responsibilities: Conducting the field works, analyzing the isotopes and the hydrochemistries of groundwater and surface water.
- **Evolution processes and mechanisms of the quality of karst waters affected by acidic mining drainage: Evidence from sulfur and oxygen isotopes** (NSFC 41263001) 2016-2018  
Position: Research Assistant  
Responsibilities: Participating in the field works, analyzing the isotopes and the hydrochemistries of groundwater.

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## TECHNICAL SKILLS

- Instrument: EA-IRMS, Precon-IRMS, Gasbench-IRMS, LC-MS-MS, GC, IC, ICP-MS, ICP-OES, AAS, EA, TOC Analyzer, Continuous Flow Injection Analyzer, UV-Visible Spectrophotometer, High-precision Laser Isotope Analyzer, Multi Parameter Water Quality Analyzer
- Software: ArcGIS, R, CorelDraw, SPSS, Origin, Canoco, AqQA, PHREEQC

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## HONORS & AWARDS

- Excellent Thesis Award, Guizhou Geographical Society & Foundation of Lu Yaoru (Academician of CAS) 2020
  - Third-Class Scholarship, Fourth Place in the 10<sup>th</sup> Table Tennis Championship, Sun Yat-Sen University 2018-2020
  - Excellence in Leadership Award, Second-Place in the 4<sup>th</sup> Table Tennis Championship, Second Class Scholarships, Guizhou University 2016-2017
  - Undergraduate Honor, First-Class Scholarship, Merit Student, First-Prize of College Students' Physical Innovation Experiment Design Competition, Excellence in Leadership Award, Wenhua College 2012-2014
  - Third-Prize in Foreign Language Translation Competition in Hubei Province, P. R. China 2013
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