

# Zhijing Yu

Gender: Female

Date of Birth: 21 May, 1999

Address: 08291 Ripollet Barcelona Spain

Email: z.yu@creaf.cat

ORCID: 0000-0001-7619-9499



## EDUCATION

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Autonomous University of Barcelona - CREAF, Spain Sept 2024 - expected 2028

PhD student in *Terrestrial Ecology*

Supervisor: Prof. Marcos Fernández-Martínez

Research focus: Elementomes, elemental diversity and soil carbon

Northwest A&F University (NWAUFU), China Jun 2024

*M.S. in Soil and Water Conservation and Desertification Combating*

Supervisor: Prof. Lei Deng

Thesis title: The regulatory mechanism of *Robinia pseudoacacia-Platycladus orientalis* mixed forests on soil organic carbon and its mineralization in the Loess Hilly Region

Chinese University of Hong Kong (CUHK), SAR China Jun-Aug 2023

*Honorary Research Assistants*

Summer Research Placement Programme for Mainland and Taiwan Students 2023

Supervisor: Prof. Amos P. K. Tai

Northwest A&F University (NWAUFU), China Jun 2021

*B.S. in Forestry*

Advisor: Prof. Lei Deng, Dr. Long Li

Thesis title: Response of soil organic carbon sequestration to different afforestation modes in China

## PUBLICATIONS

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**Yu, Z.J.**, Wang, K.B., Li, J.W., Shangguan, Z.P., Deng, L.\*, 2023. Mixed plantations have more soil carbon sequestration benefits than pure plantations in China. *Forest Ecology and Management* 529, 120654.

Yu, J.Y.<sup>1</sup>, **Yu, Z.J.**<sup>1</sup>, Li, J.W.\*, Xie, J.B., Shangguan, Z.P., Deng, L., 2023. Responses of soil microbial biomass C:N:P stoichiometry to increased precipitation and nitrogen deposition in temperate shrublands. *European Journal of Soil Biology* 119, 103553.

Dong, L.B., Liu, Y.L., Wu, J.Z., Liao, Y., Li, J.W., Yu, J.Y., Wang, S., **Yu, Z.J.**, Shangguan, Z.P., Deng, L.\*, 2023. The distribution of soil C and N along the slope is regulated by vegetation type on the Loess Plateau. *Catena* 226, 107094.

Shi, J.W., Song, M.Y., Yang, L., Zhao, F., Wu, J.Z., Li, J.W., **Yu, Z.J.**, Li, A., Shangguan, Z.P., Deng, L.\*, 2023. Recalcitrant organic carbon plays a key role in soil carbon sequestration along a long-term vegetation succession on the Loess Plateau. *Catena* 233, 107528.

Deng, L., Hu, H.T., Li, J.W., Li, X., Huang C.B., **Yu, Z.J.**, Zhang, H.L., Qu, Q., Wang, X.Z., Dong, L.B., Shangguan, Z.P.\*, 2024. Pursuing the goal of carbon neutrality in China: path for realization of carbon sequestration in planted forests. *Frontiers of Agriculture Science and Engineering*. <https://doi.org/10.15302/J-FASE-2023534>

## **SKILLS**

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Proficient in soil analysis, plant ecology and carbon cycle  
Familiar with Meta-analysis  
Experience with R and ArcGIS

## **AWARDS & SCHOLARSHIPS**

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Finalist of the Three Minute Thesis Virtual Competition, Asia Pacific Young Scientists Association	2023
National Scholarship	2023
First Class Scholarship of NWAFU	2023
Second Place Award of Three Minute Thesis Competition, NWAFU	2023
Third Place Award of Academic Forum, Zhejiang University, “Soil health and sustainable development”	2022
Third Place Award of Academic Forum, Institute of Soil and Water Conservation, 6th Graduate Academic Forum	2022
First Class Scholarship of NWAFU	2022
Outstanding Poster Award, Beijing Forestry University, “Innovation & Forestry”	2021
First Class Scholarship of NWAFU	2021
Second Class Scholarship of NWAFU	2020
First Class Scholarship of NWAFU	2019
Outstanding Student Representative	2018
Second Class Scholarship of NWAFU	2018

## **ACADEMIC ACTIVITIES**

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Oral presentation: “Elite International Doctoral Student Forum”, Guangdong University of Technology, 2023.

Oral presentation: “Soil Health and Sustainable Agriculture Doctoral Student Forum”, Zhejiang University, 2022.

Oral presentation: “The 6th Graduate Academic Forum of the Institute of Soil and Water Conservation”, Chinese Academy of Sciences, 2022.

Poster presentation: “National Agricultural and Forestry College Forestry Outstanding Students Academic Forum”, Beijing Forestry University, Chinese Society of Forestry, 2021.

## **TRAINING SHORT COURSES**

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5th Training Course on New Advances in Land Carbon Cycle Modeling, Hybrid Virtual, May 16-27, Northern Arizona University, 2022.