



**Applicant:** Xiaojun Zou

**Date of birth:** April 11, 1995

**Major:** Ecology

**Email:** zouxiaojunpc@outlook.com

**Study Apartment:**

South China Botanical Garden, Chinese Academy of Sciences, China

**Applying for:** Joint training of doctoral

**Hobby:** Play badminton



## Education background

- 2020/09-present Ecology & Environmental Sciences Center  
South China Botanical Garden, Chinese Academy Science  
Ph.D. Candidate in Ecology
- 2017/09-2020/06 College of Forestry and Landscape Architecture  
South China Agricultural University  
Master's Degree in Landscape Architecture
- 2013/09-2017/06 College of life science and technology  
Ling Nan Normal University  
Bachelor's Degree in Landscape Architecture

## Research Interests

### 1 Belowground Ecology

- Phosphorus acquisition strategies of arbuscular and ectomycorrhizal tree species responding to nutrient addition in subtropical China
- Responses of soil physicochemical properties and roots morphological and physiological indicators (such as soil enzyme activities, mycorrhizal fungi colonization, root exudate and soil microorganism) to low-phosphorous circumstances.

### 2 Forest Cultivation

- Response of growth and soil indexes of ecological landscape forest to different forest tending measures.



## Skills

### English Skill:

- Achieved a Band 6.5 in the IELTS examination and successfully passed College English Test Band 4 and Band 6, able to read and write literatures, can converse comfortably in English.
- passed the Duolingo English Test (Overall-115, Literacy 125, Conversation 90, Comprehension 120 and Production 90)

### Experiment Skill:

- Familiar with measurement of soil and plant physical and chemical properties, phosphorus classification, mycorrhizal fungi colonization, root exudates collection and determination.

### Software Skill:

- Familiar with using SPSS, R, Canoco and Microsoft Office.

## Research Experience and Project Partition

### Research Experience:

- 2017/04-2017/07: Investigation, sampling and identification of *Sclerotinia homoeocarpa* from warm-season turfgrasses of golf course in Hainan Province.
- 2017/12-2019/12: Conducted fields experiment in subtropical ecological landscape forests by tending measures of following indicators (plant growth and soil physical and chemical properties etc.) which evaluated the ecological benefit of different tending measures.
- 2021/04-present: Conducting phosphorus addition experiment in greenhouse with different types of mycorrhizal fungi common subtropical tree species to investigate the mechanism of phosphorus acquisition.

### Project Partition:

- Participated in the National Nature Science Foundation of China “**Study on resistance monitoring and mechanism of *Sclerotinia homoeocarpa* from turfgrass to dicarboximides fungicides**” (No. 31602002)
- Participated in the Central Finance Forestry Science and Technology Promotion Demonstration Project “**Extension of Cultivation Technology of Ecological Public Welfare Forest in Guangdong Province**” (No. [2015] GDTK-07)
- Self-Finance Science and Technology Plan Project of Foshan “**Study on Tending Technology of Ecological Landscape Forest**” (No. 2017AB004124)

## Publication:

### In English:

Zou X J, Ge H Y and Xue L. Relationships between mean tree mass-density and mass-stand density indexes in *Pinus massoniana* stands in China[J]. International Journal Agriculture and Biology, 2018, 20: 1188–1192.



Fang Y R, **Zou X J**, Lie Z Y, et al. Variation in Organ Biomass with Changing Climate and Forest Characteristics across Chinese Forests[J]. *Forests*, 2018, 9(09): 521.

Pan L, **Zou X J**, Lie G W, et al. Ozone-induced changes in physiological and biochemical traits in *Elaeocarpus sylvestris* and *Michelia chapensis* in South China[J]. *Atmospheric Pollution Research*, 2020, 11(05): 973-980.

### **In Chinese:**

**ZOU X J**, XUE L. Research Progress on the Influence of Management Model of Under-forest Economy on Physicochemical Property and Carbon Storage of Soils[J]. *Guangdong Agricultural Sciences*, 2019, 46(02): 79-87.

**ZOU X J**, LIE Z Y, XUE L. Effects of Salt Stress on Soil Nutrient and Enzyme Activity of Four Landscape Plants[J]. *Journal of Northeast Forestry University*, 2019, 47(03): 74-78.

**ZOU X J**, LIE Z Y, XUE L. Effects of NaCl stress on element contents and accumulations of four landscape plant species[J]. *Journal of South China Agricultural University*, 2018, 39(06): 77-84.

**ZOU X J**, ZHENG X Y, LIE Z Y, et al., Responses of soil element and enzyme activity of landscape plants of three species to salt stress[J]. *Journal of Central South University of Forestry & Technology*, 2018, 38(09): 41-49.

**ZOU X J**, CAI J H, LIE Z Y, et al., Elemental Characteristics of Three Landscape Species under Salt Stress in South China[J]. *Journal of Tropical and Subtropical Botany*, 2018, 26(03): 262-271.

**ZOU X J**, LIE Z Y, XUE L. Effects of salt stress on biomass of seven landscape plants[J]. *Journal of Central South University of Forestry & Technology*, 2018, 38(03): 97-101+128.

### **Honor and Rewards**

- National scholarship for undergraduates, 2015 and 2016
- National Scholarship for postgraduates, 2019
- 1st-Scholarship of Ling Nan Normal University, 2014, 2015 and 2016
- 1st-Scholarship of South China Agricultural University, 2018, 2019 and 2020
- Outstanding graduation student of Ling Nan Normal University, 2017
- Outstanding graduation student of South China Agricultural University, 2020
- “Top ten college students” of Ling Nan Normal University, 2017

### **Supervisor**

**Prof. Weijun Shen** Principle Investigator of Forestry of Guangxi University

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