

Guang He



Research Area: Biology mitigate nitrous oxide emission <Arbuscular mycorrhizal fungi hyphae mitigate nitrous oxide from legume rhizosphere through intercepting legume rhizosphere nitrogen and alter rhizosphere microbial community>

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Date of Birth: January, 1995 Political Status: Citizen of China

Education

Graduation: 2019.06

China Agricultural University

09/2017-06/2019

Master of Resource and Environment, Department of Plant nutrition

- Tutor: Professor Junling Zhang; Research Area: soil microecology <Interactions between plant roots and soil microbes, Interactions between soil microbes and mechanisms underlie these interactions >

Hunan Agricultural University

09/2013-06/2017

Bachelor of Resource and Environment, Department of Plant nutrition

Research Projects

Research on Interaction between Arbuscular Mycorrhizal Fungi and legume rhizosphere decomposition process <Arbuscular Mycorrhizal Fungi mitigate legume rhizosphere nitrous oxide emission>

08/2017-07/2018

- Conduct survey of literature and liaise with other labs
- Coordinate upkeep and take care of greenhouse pots experiment
- Communicated findings and draft weekly progress reports to Professor Zhang

Research on mechanism underlie interaction between Arbuscular Mycorrhizal Fungi and legume rhizosphere

010/2018-02/2019

- Conduct survey of literature and determine factors driving the interaction
- Coordinate upkeep and take care of greenhouse pots experiment
- Communicated findings and draft weekly progress reports to Professor Zhang

Research Project: Mechanism of the reduction of nitrous oxide emissions by arbuscular mycorrhizal fungi. (This project is supported by the National Natural Science Foundation of China (Grant No.

31872182)

- Assist lab director finish the project proposal.
- Conduct an intact part of this research project independent.

Skills and Certificates

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- Good knowledge of plant culture, arbuscular mycorrhizal fungi and rhizobium culture; Skilled in CAU, China
 - CET: 480; Proficiency in English
 - ILETs: Listening: 6.5 Reading: 8 Speaking: 5.5 Writing: 5.5
 - GRE: Verbal Reasoning: 143 Quantitative Reasoning: 165 Analytical Writing: 2.5

Practice Experience

Chinese Academy of Agricultural Sciences

04/2016-07/2016

Internship

- Assist tutor complete measure total carbon, inorganic carbon and total nitrogen of soil and plant from different provinces of China

Hunan Academy of Agricultural Sciences

07/2016-09/2016

Internship

- Assist the lab staff to finish field soil sampling and complete plant chemical characteristic analysis.

Interest

- Basketball, badminton, swimming, table tennis