JIE LI (SHE/HER)

I am currently pursuing a PhD under supervision of Associate Professor Jianhua Guo⁷ and Professor Gene Tyson² with focuses on microbial ecology study funded by Research Training Scholarship³. Pursing a PhD is exiting and the journey has been estimated to be finished around the middle of 2022.

I am very interested in microbial ecology and have participated in a few projects⁴. I have worked in a wide range of different environments from molecular biology science at Hunan Agricultural University and Beijing Institute of Genomics, Chinese Academy of Science to bioinformatics at BGI and Australian Centre for Water and Environmental Biotechnology. I also have wet lab experience of molecular biology which aids in my data analysis a lots. For me, it's exciting to work with different people and to learn different stuff, these experiences largely diversified my background and enabled me a solid foundation as an independent researcher.

I am eager to continue my interests on microbial ecology after PhD and undertake pipelines/workflows/tools development tasks.



EDUCATION

2022 | 2018 PhD., Microbiology, Bionformatics A/Prof Jianhua Guo, Prof Gene Tyson

Australian Centre for Water and Environmental Biotechnology

The University of Queensland

· With focus on microbial ecology.

2014 | 2010 MSc, Bioinformatics

School of Plant Protection

Hunan Agricultural University



🖵 RESEARCH EXPERIENCE

2013.09 | 2013.04 Undergraduate Intern Prof Qianfei Wang, Dr Bo Li

Beijing Institute of Genomics, Chinese Academy of Science

Peijing, China

• To Identify if sequence regions in human genome are enhancers with Western-Blot, PCR and transfection experiment.

2012.12 | 2011.09 Undergraduate Intern/Research Assisstant Prof Bida Gao, A/Prof Jie Zhong

Biology & Control of Plant Diseases and Pests Lab Changsha, China

· To identify virus infecting rice with RT-PCR and Sanger sequencing.



View this CV online with links at here

CONTACT

G Google Scholar

github

𝚱 website

in Linkedin

ORCID

y twitter

■ email

LANGUAGE SKILLS

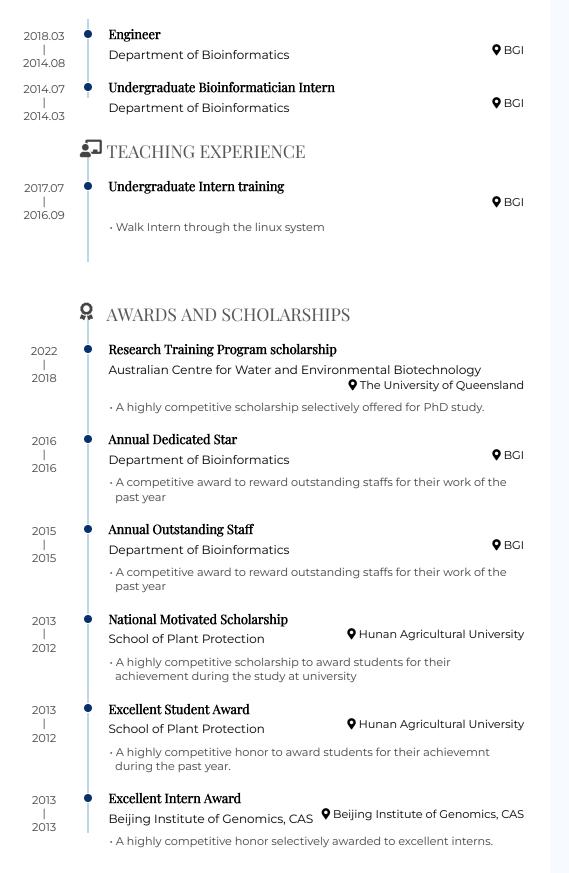
Python

R

berl

Java





Training undergraduate interns is one of my responsibilities of my work. I truely enjoyed passing on what I know to youngers and am looking forward to continue such teaching engagement.

The awards and honors I received are like medals and scars to a soldier.

Excellent Intern Scholarship 2013 Beijing Institute of Genomics, CAS 2013 · A highly competitive scholarship selectively awarded to excellent interns. Second Class Scholarship 2012 Hunan Agricultural University School of Plant Protection 2011 · Scholarship received to award the achievement during the parst year. **Excellent Student Award** 2011 Hunan Agricultural University School of Plant Protection 2010 · A highly competitive honor to award students for their achievemnt during the past year. Second Class Scholarship 2011 Hunan Agricultural University School of Plant Protection 2010 · Scholarship received to award the achievement during the parst year. PUBLIC PRESENTATIONS the 9th IWA Microbial Ecology and Water Engineering Specialist 2021 Conference (MEWE2021) TU Delft.Netherlands · Jie L_i, Tao Liu, Gene W Tyson, Jianhua Guo PEER REVIEWED ARTICLES Non-antibiotic pharmaceuticals promote the transmission of multidrug 2021 resistance plasmids through intra-and intergenera conjugation⁵ The ISME journal · Yue Wang, Ji Lu, Shuai Zhang, Jie Li, Likai Mao, Zhiguo Yuan, Philip L Bond, Jianhua Guo Selective enrichment and metagenomic analysis of three novel 2021 comammox Nitrospira in a urine-fed membrane bioreactor⁶ **ISME Communications**

· Jiyun Li, Zheng-Shuang Hua, Tao Liu, Chengwen Wang, Jie Li, Ge Bai,

Larger anammox granules not only harbor higher species diversity but

· Hui Chen, Tao Liu, **Jie Li**, Likai Mao, Jun Ye, Xiaoyu Han, Mike SM Jetten,

Sebastian Lücker, Mike SM Jetten, Min Zheng, Jianhua Guo

also support more functional diversity⁷ Environmental Science & Technology

Jianhua Guo

2020

I love to give public presentations. Just enjoy such feelings of introducing the work of your team and expressing ideas on a stage. 2020

Simultaneous removal of dissolved methane and nitrogen from synthetic mainstream anaerobic effluent⁸

Environmental Science & Technology

· Tao Liu, Jie Li, Zhuan Khai Lim, Hui Chen, Shihu Hu, Zhiguo Yuan, Jianhua Guo

2019

Antiepileptic drug carbamazepine promotes horizontal transfer of plasmid-borne multi-antibiotic resistance genes within and across bacterial genera9

The ISME journal

· Yue Wang, Ji Lu, Likai Mao, Jie Li, Zhiguo Yuan, Philip L Bond, Jianhua

2018

Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera¹⁰

Environment International

· Ji Lu, Yue Wang, Jie Li, Likai Mao, Son Hoang Nguyen, Tania Duarte, Lachlan Coin, Philip Bond, Zhiguo Yuan, Jianhua Guo

2018

Non-antibiotic antimicrobial triclosan induces multiple antibiotic resistance through genetic mutation¹¹

Environment International

· Ji Lu, Min Jin, Son Hoang Nguyen, Likai Mao, Jie Li, Lachlan JM Coin, Zhiguo Yuan, Jianhua Guo

2017

Metagenomic analysis reveals wastewater treatment plants as hotspots of antibiotic resistance genes and mobile genetic elements¹²

Water Research

· Jianhua Guo, Jie Li, Hui Chen, Philip L Bond, Zhiguo Yuan



BOOK CHAPTERS

2020

Control strategies to combat dissemination of antibiotic resistance in urban water systems¹³

Antibiotic Resistance in the Environment

· Jianhua Guo, Yue Wang, Yunus Ahmed, Min Jin, Jie Li

REFEREES

Available upon request