

JIE LI (SHE/HER/HERS)



EDUCATION

2022
|
2018

DPhil, Microbiology, Bioinformatics
Supervisors: A/Prof Jianhua Guo, Prof Gene Tyson
Australian Centre for Water and Environmental Biotechnology
📍 The University of Queensland

2014
|
2010

BSc, Bioinformatics
School of Plant Protection
📍 Hunan Agricultural University



RESEARCH EXPERIENCE

2013.09
|
2013.04

Undergraduate Intern
Supervisors: Prof Qianfei Wang, Dr Bo Li
Beijing Institute of Genomics
📍 Chinese Academy of Science

- Identifying whether three targeted regions in human genome are enhancers regulating PU.1 in MLL using PCR, Western-Blot and transfection experiment.

2012.12
|
2011.09

Undergraduate Intern/Research Assistant
Supervisors: Prof Bida Gao, A/Prof Jie Zhong
Biology & Control of Plant Diseases and Pests Lab
📍 Hunan Agricultural University

- Identifying virus infecting rice using RT-PCR and Sanger sequencing.



TEACHING EXPERIENCE

2017.06
|
2017.03

Mentoring undergraduate Intern from Southeast University
Department of Bioinformatics
📍 BGI

- Introduction of linux system operations.
- Introduction of pipelines integrated within BGI.
- Preliminary bioinformatics training.

2016.12
|
2016.09

Mentoring undergraduate Intern from Southern Medical University
Department of Bioinformatics
📍 BGI

2016.06
|
2016.03

Mentoring undergraduate Intern from Hunan Agricultural University
Department of Bioinformatics
📍 BGI



View this CV [online](#)

CONTACT ME

[Google Scholar](#)

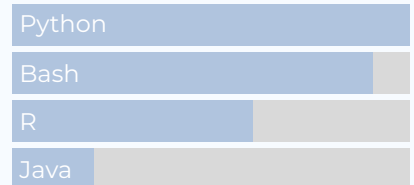
[github](#)

[website](#)

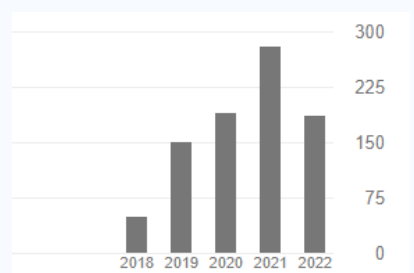
[in LinkedIn](#)

[twitter](#)

LANGUAGE SKILLS



CITATION





INDUSTRY EXPERIENCE

2018.03
|
2014.08



Bioinformatics Engineer

Department of Bioinformatics

📍 BGI

- Process and delivery of sequencing data and results.
- Pipelines maintenance.
- Modules development and integration of workflows using Python/Perl.

2014.07
|
2014.03



Undergraduate Bioinformatics Intern

Department of Bioinformatics

📍 BGI

- Involved in sequencing data quality control pipeline reconstruction.



AWARDS AND SCHOLARSHIPS

2022
|
2018



UQ Research Training Program scholarship

Australian Centre for Water and Environmental Biotechnology

📍 The University of Queensland

- A highly competitive scholarship selectively offered for PhD study.

2016
|
2015



Annual Dedicated Star

Department of Bioinformatics

📍 BGI

- A competitive award to reward outstanding staffs for their work of the past year

2015
|
2014



Annual Outstanding Staff

Department of Bioinformatics

📍 BGI

- A competitive award to reward outstanding staffs for their work of the past year

2013
|
2012



National Motivated Scholarship

School of Plant Protection

📍 Hunan Agricultural University

- A highly competitive scholarship to award students for their achievement during the study at university

2013
|
2012



Excellent Student Award

School of Plant Protection

📍 Hunan Agricultural University

- A highly competitive honor to award students for their achievement during the past year.

2013



Excellent Intern Award



Beijing Institute of Genomics

📍 Chinese Academy of Science

- A highly competitive honor selectively awarded to excellent interns.

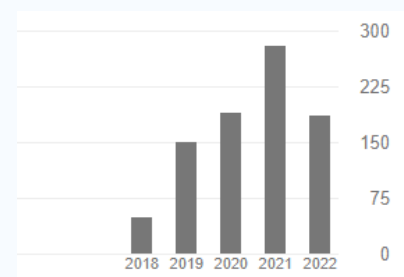
- 2013 • **Excellent Intern Scholarship**
Beijing Institute of Genomics  Chinese Academy of Science
• A highly competitive scholarship selectively awarded to excellent interns.

PUBLIC PRESENTATIONS

- 2021 • **Metabolic network analysis reveals microbial community interactions in two biofilm systems coupling anammox and n-DAMO processes**
the 9th IWA Microbial Ecology and Water Engineering Specialist Conference (MEWE2021)  Oral presentation at TU Delft, Netherlands
• [Jie Li](#), Tao Liu, Gene W Tyson, Jianhua Guo
- 2019 • **Understanding the dissemination of antibiotic resistance in water systems through metagenomic sequencing**
DPhil Confirmation presentation at Australian Centre for Water and Environmental Biotechnology  The University of Queensland

PEER REVIEWED ARTICLES

- 2021 • **Non-antibiotic pharmaceuticals promote the transmission of multidrug resistance plasmids through intra-and intergenera conjugation¹**
The ISME journal
• Yue Wang, Ji Lu, Shuai Zhang, [Jie Li](#), Likai Mao, Zhiguo Yuan, Philip L Bond, Jianhua Guo
- 2021 • **Selective enrichment and metagenomic analysis of three novel comammox Nitrospira in a urine-fed membrane bioreactor²**
ISME Communications
• Jiyun Li, Zheng-Shuang Hua, Tao Liu, Chengwen Wang, [Jie Li](#), Ge Bai, Sebastian Lückner, Mike SM Jetten, Min Zheng, Jianhua Guo
- 2020 • **Larger anammox granules not only harbor higher species diversity but also support more functional diversity³**
Environmental Science & Technology
• Hui Chen, Tao Liu, [Jie Li](#), Likai Mao, Jun Ye, Xiaoyu Han, Mike SM Jetten, Jianhua Guo
- 2020 • **Simultaneous removal of dissolved methane and nitrogen from synthetic mainstream anaerobic effluent⁴**
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 genera⁵**
The ISME journal
• Yue Wang, Ji Lu, Likai Mao, [Jie Li](#), Zhiguo Yuan, Philip L Bond, Jianhua Guo
- 2018 ● **Triclosan at environmentally relevant concentrations promotes horizontal transfer of multidrug resistance genes within and across bacterial genera⁶**
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 mutation⁷**
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 elements⁸**
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 systems⁹**
Antibiotic Resistance in the Environment
• Jianhua Guo, Yue Wang, Yunus Ahmed, Min Jin, [Jie Li](#)

REFEREES

- Available upon request