

Jiayue Wang

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EDUCATION

Department of Life Science

Imperial College London

October 2021 – October 2022

Master of Ecological application

Department of Health and environment Science

University of Liverpool

September 2017 - July 2021

Bachelor of Environment Science

RESEARCH & PROJECTS

Project thesis during master and bachelor

Parental age effect on offspring telomere length in a wild passerine

April 2022 - September 2022

Supervisor: Julia Schroeder

Impact of city lockdown measurement on air quality in six cities in China during COVID-19

Supervisor: Peng Zhao

August 2020 – June 2021

Publications

Zhao-Feng Yuan, Tong-Yao Pu, Chen-Yu Jin, Wei-Jia Feng, **Jia-Yue Wang**, Williamson Gustave, Jonathan Bridge, Yi-Li Cheng, Xian-Jin Tang, Yong-Guan Zhu, Zheng Chen (2022) Sustainable removal of soil arsenic by naturally-formed iron oxides on plastic tubes, *Journal of Hazardous Materials*, 439 (2022), 129626.

Zhao-Feng Yuan, Williamson Gustave, Raju Sekar, Jonathan Bridge, **Jia-Yue Wang**, Wei-Jia Feng, Bin Guo, Zheng Chen (2021), ‘Simultaneous measurement of aqueous redox-sensitive elements and their species across the soil-water interface’, *Journal of Environmental Sciences*, 102(2021), pp.1-10.

Research experiences

Selecting priority areas in Sunninghill and Ascot Parish Green corridor

As Data analyst

Imperial College London and Ascot government

January 2022 - March 2022

- Analyzed field data using R, Excel and GIS
- provided comprehensive data analysis to select priority areas in local green corridor to enhance local biodiversity

International research Project on effects of urban environment on the spread and control of COVID-19 at global, national, and regional level. As Research assistant August 2020 - June 2021

Hyung-Chul Chung group at Xi’an Jiaotong-Liverpool University

- Analyzed research data using.
- provided comprehensive data analysis to find the relationship between COVID-19 development and air

quality.

- Constructed COVID-19 development model in the world using R and SEIR model.

Electron transfer among the inorganic minerals and living organisms in the redox gradient zone of wetlands. As Research assistant

September 2018 - June 2021

eBiogeochem Group at Xi'an Jiaotong- Liverpool University

- Analyzed research data using R
- Constructed IPI samplers.
- Measured the metal concentrations using ICP-MS
- Developed a research independently on lanthanum oxide restoration effect on arsenic polluted soil.
- This research has published on *Journal of Environmental Science*

The third National Virtual Simulation of Environmental Design Competition

October 2019 - November 2019

- Designed a contingency plan using environmental chemistry data and monitoring model.
- Prepared presentation work for introducing displaying contingency plan with teammates
- won the third place in the competition.

International L'Oreal Brainstorm Competition of environment protection and plastic recycling

February 2020 - April 2019

- Designed a plastic recycling method for L'Oreal Pairs to reduce carbon footprint by using environment model and statistics.
- Gave three report posters combined with environmental and finance analysis using environmental predict model and financial model.
- Won the top 100 in China region.

INTERNSHIP & WORKING EXPERIENCE

Baoji city water Conservancy Bureau

May 2020 - August 2020

Research assistant in Water resource management Department

- Calibrated groundwater quality data using SPSS and R.
- Predicted water level in flood season using environmental hydrology model.
- Finished two reports on part of "Environmental Social Responsibility".

SKILLS

- Language: Fluent in written and spoken English (ITLES 7.0), proficient in Chinese Mandarin, familiar with French.
- Software: Microsoft Office, Visual Studio, ArcGIS, Remote Sensing, ENVI, Adobe Photoshop
- Programming: Proficient in Python, R language.

HONORS & SCHOLARSHIPS

- Top 100 in the China region in L'Oreal competition April 2020
- The No. 3 place of the third National Virtual Simulation of Environmental Design Competition November 2019