

Yu Bincheng

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EDUCATION

Chinese University of Geosciences, Hubei, China	08/2016-06/2020
B.E. in Hydrology and Water Resources Engineering	
University of Maryland College Park Maryland USA	01/2012-12/2022
M.S. in Civil and Environmental Engineering	

RESEARCH EXPERIENCE

09/2019-10/2019

Study on Photocatalytic Degradation of Dye Wastewater Using MOF Materials

Dr. Zhang Yanqiu

- Made crystals from MOF materials; investigated structural characteristics using X-ray diffraction, ultraviolet diffuse reflection, and infrared spectrum testing, generated and determined the characterization performance and use conditions
- Organized data of degradation experiments and drafted the absorbance curves using pseudo-first-order kinetic rate fitting plots
- Analyzed the performance of MOF materials in the degradation and reaction mechanisms of methyl orange and methylene blue in dye wastewater
- Conducted experiments to explore the influencing factors of the degradation efficiency of the MOF materials, including the degradation efficiency in a mixed solution and completed the project research report

Three Gorges Productive Fieldwork

07/2019-08/2019

Associate Prof. Huang Kun

- Collected and tested pollution sources of the Moon Bay Gold Mine, including the monitoring of the soil and groundwater pollution indicators of the waste slag of the tailings pond, and the wastewater discharge standards of the ore refining workshop
- Researched the environmental geological problems in the Three Gorges Reservoir area; detected and analyzed the water quality by using spectrophotometer analyses
- Tested the water quality of Qinglinkou Reservoir and the Three Gorges Dam area; visited the Three Gorges Water Quality Monitoring Center, created the hydrogeological maps using ARCGIS; and simulated the watershed model using Matlab
- Analysed and investigated the landslide geological hazards in Zigui County
- Completed two water quality survey reports, two environmental geological disaster investigation reports, hydrogeological maps and hydrogeological reports in the Three Gorges reservoir area, and one environmental assessment form in Zigui County

Moshan Lake District Environmental Monitoring and Inspection

05/2019

Associate Prof. Tong Lei

- Collected water sample of Moshan Lake District East Lake Wuhan and conducted data test for the water sample, including data from titration and electronic analyzers
- Used SPSS statistical software to perform cluster analysis and principal component analysis for the data and determined the condition and type of water quality
- Completed the water quality principal component analysis, including measuring the COD, BOD and heavy metal ion indicators
- Created a water quality report and develop an evaluation form for the water samples

Xin'an River District Watershed Model Simulation

04/2019-05/2019

Prof. Wang Quanrong

- Collected hydrological data and various hydrological parameters from the Xin'an River District
- Used Xin'an River model and the Sacramento model to simulate the region and develop a model program using parallel studio
- Input the collected data to the model and predicted flood scenarios in the Xin'an River District in the next three years

Dongwang Village Construction Bridge Environmental Assessment

04/2019

Prof. Cheng Shenggao

- Analysed the engineering survey map of the construction bridge of Dongwang Village and drew a general engineering plan in CAD
- Identified the existing environmental problems; determined the width of the guard band; studied protection measures and estimated the cost of environment protection engineering
- Authored the Environmental Assessment Book of Dongwang Village Hongxing Bridge Project

Taiping Mountain Geological Area Survey

08/2018-09/2018

Associate Prof. Huang Kun

- Planned inspection routes and measured field profiles
- Create a hydrogeological map of specific illustrations of possible environmental geological hazards in the Taiping Mountain region
- Wrote a regional geological survey report on geological conditions and hydrological conditions in the Taiping Mountain region

HONORS AND AWARDS

- School Daily Academic Awards (CET-4 TOP 10) 06/2019
- Excellent Member of Student Union 03/2017

EXTRACURRICULAR ACTIVITIES

- *Volunteer* of International Student Exchange Day 10/2018
- *Group 3rd Place* of School Parliamentary English Debate Competition 09/2017-01/2018
- *Organizer* of Chinese University of Geosciences Excellent Social Practice Selection 08/2018
- *Participant* of 2017 Hubei English Speech Contest 09/2017
- *Organizer* of Chinese University of Geosciences May Fourth Evaluation Activity 05/2017
- *Organizer* of Chinese University of Geosciences Freshman Cadre Training 10/2016

SKILLS

- **Computer Skills:** C, Fortran, SPSS, Parallel Studio, Matlab, PHREEQC, PS, AE
- **Hobbies:** Calligraphy, Basketball, Go