

Yuhang Liang

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EDUCATION

Xi'an University of Architecture and Technology

09/2015-07/2019

- Major: **Environmental Engineering** (Outstanding Engineer Training Plan)
- GPA: 3.57/5.0 **Rank: Top 5% among 128 students**
- Major GPA: 3.72/5.0
- **Scholarships:** First Class Scholarship (Grade Top 2%, 2018); Second Class Scholarship sponsored by Sound Group (Grade 1%, 2018); Second Class Scholarship for Student Cadre (Grade Top 5%, 2017); First Class Scholarship (Grade Top 2%, 2016)
- Skills: AutoCAD, Origin, Canoco, IBM SPSS Statistics, Fluent, Python

RESEARCH EXPERIENCES

Innovation and Entrepreneurship Training Program for National Students

Project: Study on Water Environmental Characteristics and Water Quality Stability Strategy of Landscape Water Using Reclaimed Water for Supplement

06/2016-06/2018

Advisor: Professor Rong Chen

- Studied research papers on reclaimed water and selected three lakes with similar morphological characteristics and hydraulic characteristic in three different cities as the objects of study, where one lake in each pair was replenished with reclaimed water and the other with surface water
- Monitored the objects' water quality for a year; obtained 22 indexes of water quality in 12 consecutive months in five categories: trophic condition, algal growth, heavy metals, eco-toxicity and pathogenic risk
- Analyze the significant correlation of the data (Person method of SPSS); analyzed main environmental factors of landscape water with reclaimed water as supplement (principal component analysis); analyzed main influencing factors affecting the distribution of overlying water and sediment pathogens (canonical correspondence analysis); compared difference between two types of lakes with different supplement source
- Organized and completed an English final project report with my teammates

National Water Pollution Control and Treatment Science and Technology Major Project

Project: Study on Nitrogen and Phosphorus Removal and Eutrophication Treatment Techniques in Urban Lakes

07/2016-05/2018

Advisor: Professor Xiaochang Wang

- Participated in field research in three cities, namely Harbin, Shenyang and Changchun; collected 53 water samples from 14 lakes; obtained data including lake characteristics, the state of water quality, the situation of waterfront, and the situation of aquatic organism
- Assisted the research team to write research reports about three cities' water environment; used monomial index and comprehensive pollution index to evaluate water quality in reports
- Found two problems based on monitoring data of 189 urban lakes: the evaluation of water environment environmental quality standards only reflects the eutrophication status of urban lakes to a certain extent; the evaluation of eutrophication status of urban lakes based on TLI can't fully reflect the landscape quality of water bodies
- Participated in comprehensive indicators study of urban lake water quality; firstly determined indicators and used principal component analysis to select 7 factors; then combined sensitivity analysis with MIKE3 model to obtain sensitivity change rules of 7 factors; finally finished the assignment of factor qualities and the determination of factor weights

University Investigation Program**Project: Status Quo and Prospects of Urban Reclaimed Water Reuse****10/2016-02/2017**

Advisor: Professor Yi Wang

- Designed 10 kinds of questionnaires for 10 research objects in Xi'an city by studying literature and relevant questionnaires; designed a questionnaire targeted for residents, sent out 865 pieces of questionnaires and collected 834 effective ones
- Analyzed reclaimed water usages and effects in various approaches with Origin and Excel; used SPSS to investigate the degree of satisfaction of residents and the correlation between the usage amount of reclaimed water and its supply, price as well as quality
- Finished "data analysis" and "suggestions for urban reclaimed water reuse" parts in the final report and got outstanding prize with good performance in the project

INTERNSHIPS**Environmental Science Research & Design Institute of Taizhou City****07/2017-09/2017**

2017 Outstanding Summer Intern, Testing and Consulting Dept.

- Collected about 600 industrial wastewater and surface water samples, tested indicators including TN, TP, COD, etc. and finished the reports on water quality analysis
- Suggested to increase the number and type of charts in reports, took charge of charts drawing and analysis in two meetings with first party and invented a chart template for the institute

Zhejiang Judong Co., Ltd**01/2016-03/2016**

Intern, Environmental Protection Dept.

- Assisted to monitor the company's waste gas, waste water and noise, analyzed abnormal indicators, speculated possible reasons and put forward to solutions
- Examined operating status of environmental protection equipment to guarantee their normal work

CAMPUS ACTIVITIES**Xi'an University of Architecture and Technology****09/2017-Now**

- Acted as the peer mentor of 2017 freshmen majoring in environmental engineering
- Helped 2017 freshmen make study plans; assisted them to adapt the study and life in university

Xiongning Volunteer Team, Xi'an University of Architecture and Technology**09/2015-Now**

- Took part in voluntary activities like volunteer teaching in a kindergarten, clothing donation, nursing home visiting, etc

School Football Team, Xi'an University of Architecture and Technology**09/2015-Now**

- Acted as the team's vice leader and coach
- Took part in competitions like Xihai Cup Football League, University Futsal, etc.