

Yun Luo

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Education Background

Master of Science, University of Colorado Boulder; expected December 2020

Major: **Environmental Engineering**

Cumulative GPA: 3.88

Bachelor of Engineering, HeFei University of Technology, June 2018

Major: **Environmental Engineering**

The Second Prize Scholarship (2017), The Third Prize Scholarship (2016)

Coursework

Water Chemistry, Water Treatment, Wastewater Treatment, Environmental Organic Chemistry, Environmental Engineering Processes, Applied Microbiology & Toxicology, Numerical Methods of Civil Engineering, Water reuse and reclamation

Technical Skills

Program skills: MS Office, AutoCAD, BioWin, Aquachem, Matlab, Civil 3D, Python, Rhino, Adobe Premiere Pro

Laboratory skills: Cary UV-Vis Spectrophotometer, Muffle Furnace, Autoclave, Vacuum Pump

Professional Work Experience

University of Colorado Boulder

August 2020-present

Research Assistant

- Performed airborne surfactant analysis
- Conducted series of experiments for different types of surfactant
- Used Cary 400 UV Vis Spectrophotometer for surfactant analysis and muffle furnace for glassware cleaning

University of Colorado Boulder, Boulder Valley School District (BVSD) Cleaning Project

January 2020-present

Data Analyst

- Performed record-keeping data updates
- Used Excel to analyze data from various schools in BVSD
- Communicated with technicians to make sure everyone update the data in time

HeFei University of Technology, HeFei, China

May 2016-May 2018

Project Manager

- Sampled polluted water with blue algae, shipped them back to the laboratory and tested the basic properties of water
- Extracted protein from blue algae in polluted water by freezing and thawing, measuring protein by using spectrophotometer
- Wrote daily reports about experiment procedures such as data, calculations, temperature, chemicals and instruments
- Made a general framework of each project and completed the cycle of projects in target completion date
- Lead a productive team of four in a lively atmosphere and communicating well with team members

Zhejiang Province Easy Test Environmental Technology Company, Ningbo, China

March 2018-May 2018

Water Quality Tester Intern

- Tested PH, ammonia nitrogen, COD, BOD and TP in industrial wastewater
- Analyzed data and wrote reports using MS Office then gave them back to industries

Zhejiang Province Industrial EP Design and Research Institute Co., Ltd, Ningbo, China

July 2016-August 2016

Research Intern

- Researched on hidden trouble of surrounding industries along major rivers in Jiangbei District and found out the industries contributing significantly to the pollutant in the water
- Worked in collaboration with other colleges and writing a report on the impact of the surrounding industries to this district
- Proofread the Environmental Impact Statement and handed in the final version to the industries

Engineering Projects

Wang Xiao Ying Wastewater Treatment Plant Design (Senior Project)

December 2017-June 2018

- Designed the whole wastewater treatment plant using AutoCAD, including equipment, pipelines and buildings
- Experienced in field inspection and writing reports including project management, building design and financial cost

Comparison of Different Model of Water Stabilization Ponds

September 2018-December 2018

- Used tracer data to find the better model between PFR and PFR with dispersion

Performance and Optimization of the Boulder Wastewater Treatment Facility

March 2019-May 2019

- Used BioWin software to find the optimal WWTP configuration with the 5-stage Bardenpho configuration

Treatment of Microcystin-LR in Drinking Water

March 2019-May 2019

- Literature review on various methods of microcystin-LR treatment (an unregulated contaminant)

Literature Review of Heavy Metal Removal Using Biosorption

March 2019-May 2019

Direct Portable Reuse Implement Report in the City of Phoenix, Arizona

September 2019-December 2019

- Comparison of the RO and non-RO based treatment trains was included in the project including the consideration of cost, layout and location

Publication

Yun Luo, Zi-wan WANG and Mu-fan XI, "Effect of Experimental Condition on Extraction of Phycocyanin in Xuancheng," *Resources Economization and Environmental Protection*, vol 11, 2017.

Honors and Awards

Summer Graduate School Fellowship (2020)

The Third Prize in National University Student Social Practice and Science Contest on Energy Saving and Emission Reduction (2017)

The First Prize in Innovation Design Competition on Water Conservancy of Hefei University of Technology (2017)

The First Prize in Social Practice and Science Contest on Energy Saving and Emission Reduction of Hefei University of Technology Xuancheng Campus (2017)

Outstanding Result in College Students Innovation and Entrepreneurship Projects of Hefei University of Technology (2017)

The First Prize in Financial Investment Innovation Competition for College Students in An'hui Province (2016)

Professional Involvement

The American Society of Civil Engineers (ASCE) member

September 2020 to present

Science Under the Dome

July 2020 to present

-Connected with speakers in various different departments and give feedback to them

-Worked as a team to put all the talks together

2019 Rocky Mountain Water Conference , Keystone, CO

September 2019

-Run a smooth conference and collect valuable data on the popularity of the technical sessions

Expanding Your Horizon, Boulder, CO

February 2019

-Assisted lunch setup and adult program to run the activity smoothly -Increased middle school girls' exposure to the STEM field

Engineers Without Borders Guatemala at the University of Colorado

September 2018-December 2018

-Used AutoCAD to design the water transportation pipelines in Guatemala

AIESEC Power Up! Bandung Summer Project, Bandung, Indonesia

August 2015-October 2015

-Publicized environmental awareness to local people and distributes handmade brochure about protecting environment

-Taught English and Chinese in a local primary school