

WENXIN ZHANG

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EDUCATION

Lehigh University, Bethlehem, PA

– May 2020

- Master of Science major in Environmental Engineering
- Key courses: Environ Engineering Processes; Environmental Risk Assessment; Toxic and Hazardous Wastes; Environ Separation & Control; Environ Water Chemistry; Probability and Statistics; Data Mining.

Beijing University of Technology, Beijing

– May 2018

- Bachelor of Engineering major in Resource Recycle Science and Engineering GPA: 3.42/4.00
- Awards: Municipal Triple-A Student by Beijing Municipal Student Union in 2017; Merit student and Excellent Student Cadre in all semesters; Model Student of Academic Records in all academic years.

EXPERIENCE

Research Assistant at Lehigh University, Bethlehem, PA

– 2019 - 2021

- Researched topics in water treatment, which tried to use ion-exchange to remove Arsenic in drinking water.
- Worked and communicated with professors and undergraduate students. Finished literature review and data analysis.

R&D Department Intern, Honghu Gaoxiang Technology Inc., Beijing, China.

– 2017 - 2018

- Performed data analysis on the company products and assisted the engineer to carry on the optimization experiments of product - disposable milling cutter.
- Learned to use Pro/Engineer and became proficient in drawing by using AutoCAD.
- Broadened the horizons and cultivated the interdisciplinary research perspectives.

Intern for Baidu Inc., Beijing, China.

– 2016 - 2017

- Participated in a project "Annual Mother and Baby Project White Paper".
- Independently took investigation on over 30 companies that are engaged in mother & baby products, and identified potential clients through a series of surveys on current market situation, reputation of products, etc.
- Supported the R&D Department with innovative ideas about "Energy Resources White Paper", and designed an interactive webpage that drew viewers of 0.73 million, excelling the industry average 40% of click-through rates.

RESEARCH

Effects of adhesion on the long-term survival of bacteria and the implications for development of engineered surface coatings. (In progress) Bethlehem, PA

Lehigh University Faculty Research Grant

- Trying to develop a new approach for local delivery of ionizable chemicals, such as antibiotics, from a surface to attached bacteria through the application of the charge-regulation effect.
- Using ionizable dyes to develop the experimental approach and demonstrate the process.

Development New Methods of Recycling Cemented Carbide Scrap Beijing, China

Spark Fund of BJUT

- Looked up references, investigated and researched the current situation of the recycling problems.
- Designed experiments on the recovery of high cobalt cemented carbide scrap by molten salt electrolysis in laboratory.

Anodizing Crafts in Recycling WC by Molten-Salt Electrochemistry from Cemented Carbide Scrap Beijing, China

- Introduced the molten-salt electrochemistry into the realm of resource recycling. Spark Fund of BJUT
- Commenced the research of the mechanism and process of anodizing molten salt.
- This project was selected into the Dingxin Cup Competition and won the merit award for the Department of Material Science.

SKILLS AND CERTIFICATES

- BCG Strategy Consulting Virtual Experience Program: market research, data analysis, client recommendation.
- Programming: Tableau, Python, SQL, AutoCAD, Microsoft Office. | Language: English, Chinese.
- Coursera Certificate: Python 3 Specialization; Python for Everybody Specialization; IBM Database and SQL for Data Science.

LEADERSHIP

- Orientation leader for OISS and for graduate students at Lehigh University 2019
- Member of the Board of School Science and Technology Association 2016-2017.
- Director of Art Department in Student Union of School of Materials Science & Engineering 2014-2016.