

ZIFENG TANG

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EDUCATION

Columbia University

New York, NY

Master of Science in Chemical Engineering, Overall GPA: 3.62

Expected Dec 2023

Sample Coursework: Carbon Utilization and Conversion, Green Chemical Engineering, Electrochemistry

New York University, College of Art and Science

New York, NY

Bachelor of Science, Chemistry, Overall GPA: 3.64, Major GPA: 3.87

May 2022

Sample Coursework: Organic Chemistry, Biochemistry, inorganic Chemistry, Intro to Computer Programming

Award: George Granger Brown Award in Chemical Engineering, Isidore Rubiner Award in Outstanding Chemical Research

WORK EXPERIENCE

Columbia University in the City of New York

New York, NY

Research Assistant & Technician

Jan 2023 - Present

- Joined Prof. Faye McNeil's lab for electrochemistry research focusing on environmental problems. The current focus is to economically and efficiently recover lead ions from river water through electro-deposition onto the modified electrode, intensifying the lead detection signal. Mentored undergraduate students for lab research over the summer
- Act as a technician in the Precision Biochemical Characterization Facility laboratory in the chemistry department. The duty includes filling LN2 dewars, changing cylinders, routine maintenance on instruments, learning instrument operation, and training students in their use

International Fund For China's Environment

Washington, DC

Intern

Jun 2023 - Present

- Update information and recent events about IFCE on official social media; Research on collecting US low carbon activities among the chemical industries, seek potential sustainability cooperation between US and China's chemical industries

New York University

New York, NY

Course and DNA Lab Research

Sep 2018 - May 2022

- Studied 3D printing technology. Comprehended 3D design programs featuring Additive Manufacturing machine
- Performed strand purification protocol at the DNA Nanotechnology Lab. Attempted to anneal DNA strands to form motifs with other lab members. Developed a new strand design whereby DNA strands were made into triangular or polygonal shapes

Institute of Life Sciences, Hunan Normal University

Changsha, Hunan, China

Biotechnology Laboratory Intern

Jan 2020 - Aug 2021

- Devised one project to coat antibacterial material, polydopamine catalyzed by H₂O₂ and Fe³⁺, on surface of a polyacrylamide gel to obtain extra photo-thermal and chemokinetics disinfection
- Collaborated on another published research project "An Ultrasmall Fe₃O₄-Decorated Polydopamine Hybrid Nanozyme Enables Continuous Conversion of Oxygen into Toxic Hydroxyl Radical via GSH-Depleted Cascade Redox Reactions for Intensive Wound Disinfection." <https://onlinelibrary.wiley.com/doi/full/10.1002/sml.202105465>

Banfert New Materials Co., Ltd

Changsha, Hunan, China

Intern

May 2021 - Jun 2021

- Managed to utilize UV Curable Coatings for wooden floors and various furniture surfaces
- Implemented one general procedure of determining the specifications of UV curable coatings, and learned how to test and adjust coating viscosity and adhesiveness, layer thickness, as well as other coating properties

Green Hunan

Changsha, Hunan, China

Member

May 2017 - Aug 2017

- Analyzed the water body quality near my hometown and reported the polluting companies emitting chemicals alongside the river. A chemical plant was fined 250k CNY
- Participated in field research at one of the largest landfill sites around my hometown. Assessed its ability to compost daily garbage and its potency to convert landfill to electricity for power plant and other sustainability pathways

SKILLS

Computer Skills: Word doc, PPT slide, Excel, Python

INTERESTS

Soccer, Working out, Fishing, snowboarding, Travel, piano, guitar