

# ZHANG, HONGYUE

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## CONTACT

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## EDUCATION

**The George Washington University** 2022-Present

*Ph.D. Candidate, Environmental Engineering*

**The Hong Kong University of Science and Technology** 2021-2022

*Department of Chemical and Biological Engineering  
MS. Chemical and Biomolecular Engineering*

**Soochow University** 2017-2021

*College of Chemistry, Chemical Engineering and Materials Science  
BS. Chemistry*

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## RESEARCH EXPERIENCE

### **Researcher in Hydroponics Farming for Vegetables by Optimizing Growth Medium and Conditions.**

Food Laboratory 2021-2022

Advisor: Prof. LIU Marshal YS

- Explore optimal growth conditions through control variates method;
- Use wastewater to replace nutrient solution for growth and assess quality improvement of discharge.

### **Researcher in N-heterocyclic Carbenes and Frustrated Lewis Pairs Synthesis and Catalysis.**

Organic Laboratory 2019-2021

Advisor: Prof. Xu Xin

- Focus on organometallic compounds synthesis and test activity and stability of these compounds;
- Compare catalytic efficiency of different compounds in polymerization.

### **Researcher in Antibacterial Effect of Gold Nanorod Modified by Lysozyme.**

Biomaterial Laboratory 2020-2020

Advisor: Prof. Yuan Lin

- Explore antibacterial effect improvement of gold nanorods-lysozyme system under a series of concentrations with or without laser light.

### **Research Assistant in Mechanism Research of VEGF Genes in Lymphatic and Angiogenesis.**

Biomedical Laboratory 2018-2020

Advisor: Prof. He Yulong

- Insist on participating in weekly frontier paper review and discussion;
  - Enrich myself with biomedical knowledge and firm up my passion towards biomedical research.
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## HONORS & AWARDS

**The Most Creative Team**, the first Suzhou Wuxi Changzhou University Entrepreneurship Forum, China, 2018

**Recipient of Summer Youth Leadership Development Program**, the George Washington University, USA, 2018

**First Prize of Soochow University Scholarship**, Soochow University, China, 2019

**Merit Student**, Soochow University, China, 2019

**Short-term Overseas Exchange Scholarship**, Soochow University, China, 2019

**Second Prize of Soochow University Scholarship**, Soochow University, China, 2020

**Outstanding Graduate**, Soochow University, China, 2021