Zichen HONG

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EDUCATION



Department of Chemistry, Zhejiang University

Zhejiang, China

09/2022 - Present

M.S. Student. Concentration in analytical chemistry and in vitro diagnosis

GPA: 90.6/100 Rank: 1/80



Chu Kochen Honors College, Zhejiang University

Zhejiang, China

09/2018 - 06/2022

B.S. in Chemistry

• GPA: 3.95/4.0 Rank: 4/20

• Coursework: Analytical Chemistry, Physical Chemistry, Supramolecular Chemistry, Probability, Engineering Training, Organic Synthesis Experiment, Biochemistry and Experiment C, Chemical Biology Experiment, Visualization in Scientific Computing

Queen's University Belfast: Engineering and Physical Sciences Summer School 2021(remote) 07/2021 - 07/2021 2021 Excellent Oral Presentation

PUBLICATIONS

[1] Jingfeng Zhang[†], Zichen Hong[†], Wei Lu, Tianyuan Fang, Yongan Ren, Shenyi Yin, Qijia Xuan, Dezhi Li*, Jianzhong Jeff Xi*, and Bo Yao*. Assessment of Drug Susceptibility for Patient-Derived Tumor Models through Lactate Biosensing and Machine Learning. ACS Sensors. 2023 8 (2), 803-810.

RESEARCH EXPERIENCE

Quantifying single extracellular vesicle impedance by label-free electrochemical imaging

06/2023 - Present

Co-worker, Supervisor: AP. Guangzhong MA & Prof. Bo YAO

• Under review. Data not published.

Identifying Cell Types through SERS and Machine Learning

09/2022 - 05/2023

Researcher, Supervisor: Prof. Bo YAO

- Utilized Confocal Surface Enhanced Raman Spectroscopy (SERS) to acquire 3082 spectra of 5 cell lines.
- Employed a random forest algorithm via Python to identify these spectra.
- Achieved an overall accuracy of 93.2% to distinguish 5 cell lines.
- Data not published. This was a training program for machine learning.

A Drug Susceptibility Assessment Model Based on Machine Learning and Gold Electrode Biosensor 03/2022 - 03/2023

Co-worker, Supervisor: Prof. Bo YAO

Outline:

• Published a paper as co-first author in the journal ACS Sensors.

Achievement:

- Won Excellent Award at the 11th Scientific Research Achievement Exhibition of the Department of Chemistry, Zhejiang University.
- Conducted a 20 minute Oral Presentation in "the 5th Microfluidic Technology Application Innovation Forum" of the Chinese Society of Micro-Nano Technology, Guangzhou.

TEACHING EXPERIENCE

•	TA, College Chemistry Experiment A, ZJU (Instructor: Prof. Hong SHEN)	Spring 2023
•	TA, Analytical Chemistry B, ZJU (Instructor: Prof. Bo YAO)	Fall 2022

HONORS AND AWARDS

	STORE THE THERE	
•	Outstanding Graduate Student	2023
•	China National Petroleum Corporation (CNPC) Scholarship (for all-round ability, awards to 2 or	at of 425
	students, CNY 8000)	2023
•	Outstanding Graduates of Zhejiang University	2022
•	First Place for "the 15th Shanghai College Student Chemistry Experiment Competition" in Shanghai	2021
•	Top Scholarship for Basic Disciplines (awards to 2 out of 21 students, CNY 5000)	2021
•	Second Class of Zhejiang University Scholarship (for all-round ability, Top 8%, CNY 4000)	2021
•	Outstanding Student	2019
•	Zhejiang Provincial Government Scholarship (for all-round ability, Top 3%, CNY 6000)	2019

•	First Class of Zhejiang University Scholarship (for all-round ability, Top 3%, CNY 6000)	2019
•	First Class of Tianxing Freshman Scholarship (awards to 10 out of 83 students, CNY 10000)	2019
•	Second Prize of the 31st Chinese Chemistry Olympiad	2017

PROFESSIONAL SKILLS

• **Programming:** Python, Matlab

• Languages: Chinese (native), English (TOEFL 6.5)

EXTRACURRICULAR ACTIVITIES

Chairman Science Popularization Office, Department of Chemistry, ZJU 01/2020 – 09/2021

the Rights and Services Department of the Student Union of the Department of Chemistry, ZJU

09/2019 - 01/2020

Team member Summer Teaching Support Team of Peasant Rural and Agriculture Association (PRAA), ZJU 07/2019 - 08/2019

• Acted as a fourth & fifth grade science teacher in primary school, Anhui Province, China.

• Our team won the Gold Award for "China Education Support Project: Chinese College Students Rural Teaching Support Award" (Only two teams nationwide)

Updated: May 24, 2024

Director