

EDUCATION**Department of Chemistry, Zhejiang University** Zhejiang, China 09/2022 - Present*M.S. Candidate. 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**Identifying Cell Types through SERS and Machine Learning** 09/2022 – 05/2023*Researcher, Supervisor: Assoc. 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

A Drug Susceptibility Assessment Model Based on Machine Learning and Gold Electrode Biosensor

03/2022 - 03/2023

*Co-worker, Supervisor: Assoc. Prof. Bo YAO***Achievement:**

- Published a paper as co-first author in the journal ACS Sensors.
- 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: Assoc. Prof. Bo YAO) Fall 2022

HONORS AND AWARDS

- Outstanding Graduate Student 2023
- China National Petroleum Corporation (CNPC) Scholarship (for all-round ability, awards to 2 out 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 (Zhejiang Province) 2017

PROFESSIONAL SKILLS

- **Programming:** Python, Matlab
- **Languages:** Chinese (native), English

EXTRACURRICULAR ACTIVITIES

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

Director 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: November 25, 2023