

Suwen Jin

Email: suwen.jin@ucdconnect.ie

Mobile: +353 877018897

Portfolio: shizukuyu.github.io

EDUCATION

University College Dublin

Master of Science, Computer Science

GPA: 3.54/4.2

Dublin, Ireland

Sep 2022 - Jan 2024

Xiamen University Tan Kah Kee College

Bachelor of Engineering, Environmental Science and Engineering

GPA: 3.4/4.0 (Ranking: 18/192)

Xiamen, China

Sep 2018 - Jun 2022

SKILLS SUMMARY

- **Programming Languages:** Python, Java, JavaScript, CSS, HTML, PHP
- **Web App Tech Stacks:** Django, React, Flask, MySQL, PostgreSQL, Gunicorn, Nginx, Django REST, Docker, Linux
- **Data Science Tools:** Pandas, NumPy, Scikit-learn, Jupyter Notebooks, origin
- **Engineering Software:** ArcGIS, AutoCAD, Matlab
- **Experimental skills:** GC-MS, HPLC-MS, UV-Vis

PROJECT

NYC Travel Guide App

University College Dublin

Advisor: Prof. Gavin McArdle and Prof. Fatemeh Golpayegani

Dublin, Ireland

Jun 2023 - present

- Managed application deployment using Docker for seamless and efficient deployment process, ensuring high application availability and smooth updates.
- Collected and preprocessed historical taxi data, optimizing data quality; Trained machine learning models (e.g., Linear Regression, Random Forest) to predict future taxi data.

Removal of NDMA from Water by UV-Advanced Oxidation Process

Xiamen University Tan Kah Kee College

Advisor: Prof. Xiaosong Zha

Xiamen, China

Jan 2021 - Apr 2022

- Utilizing SPE-HPLC to analyze components of solution which was processed by AOPs, Calculated the content of fixed components based on features of graphs.
- Demonstrated skill in interpreting experimental data, enabling the identification of pseudo-first-order kinetics in chemical reactions.

Transformation of Chloride Ions in Electro-Oxidation Technology

Fudan University, Tongji University

Advisor: Prof. Yan Liu and Ms. Chenxi Li

Shanghai, China

Jul 2021 - Sep 2021

- Operated and maintained lab instruments(GC-MS,HPLC), analyzed pre-made Trichloromethane samples using mass spectrometry, and superimposed chromatograms of different samples to test the content changes.
- Made detailed observations and produced graphs based on the experimental findings.

UAV-based waterbody image catching and water quality measurement

Key Laboratory of Estuary Estuarine Ecological Security and Environmental Health

Advisor: Prof. Liang Zhou

Xiamen, China

Jan 2021- Mar 2021

- Corrected the distortion and blurriness of photos using Digital Orthophoto Map technology, resulting in enhanced image quality for further analysis.
- Demonstrated proficiency in data processing and analysis, facilitating the evaluation of water quality parameters for effective environmental monitoring and research.

EXPERIENCE

- **Genhouse Pharmaceutical Co., Ltd** Suzhou, China
Research & Development Intern Jan 2022 - Apr 2022
 - Worked within the Lab information management system (LIMS) to document maintenance, repairs and calibration of equipment.
 - Performed transformation experiments either for event generation or process improvement as planned by the team and document progress.
- **China Post** Suzhou, China
Data Analysis Intern Jun 2021 - Sep 2021
 - Built and maintained automatic reporting processes, creating reusable and scalable SQL scripts that improved operational efficiency by 40%.
 - Selected and analyzed data using Excel and SQL, effectively transforming the data into structured representations using graphs.

PUBLICATIONS

Xiaosong Zha, **Suwen Jin**, Qian Zhao, Peinan Huang, et al. Study on removal of NDMA from water by UV-based Advanced Oxidation Technology.[J] *Chinese Journal of Water Treatment Technology*, **2022**, 48(09):32-37.

XiaoSong Zha, Lin Zhang, YuanJie Weng, ZhiLiang Feng, **Suwen Jin**. Reductive Degradation of NNitrosodimethylamine in Water by Ultraviolet Advanced Reduction Processes[J]. *Chinese Journal of Applied Chemistry*, **2022**, 39(3): 451-460.

AWARDS

Excellent Student Scholarship (awarded to the top 10% of the grade) 2018, 2019, 2020, 2021
Group Leader Award, Provincial level 2020
College Students' Innovative Entrepreneurial Training Plan Program
Third Prize, Group leader 2019
School Science Contest on Energy Saving Emission Reduction

PERSONAL DETAIL

Nationality: Chinese

Gender: Female

Birthday: 2000-04-20

Ireland student residence permit(Stamp 2)