# Suwen Jin

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## EDUCATION

- **University College Dublin** — Dublin, Ireland
  *Master of Science, Computer Science* — *Sep 2022 - Jan 2024*

- **Xiamen University Tan Kah Kee College** — Xiamen, China
  *Bachelor of Engineering, Environmental Science and Engineering* — *Sep 2018 - June 2022*
  Gpa: 3.4/4.0 (Ranking: 18/192)

## PROJECT

**Dublin Bike Website** — *Feb 2023 - May 2023*

- Deployed a Flask website on an AWS EC2 server, creating a VPC and subnet for secure access to the website.

- Implemented Machine Learning Random Forest model and LSTM to improve the accuracy and stability of the bike usage data, resulting in more accurate predictions of bike availability for users.

- Developed an automated system for collecting and processing data from the Dublin Bike API, reducing manual data entry time by 50 % and improving the accuracy of the data.

**UAV-based waterbody image catching and water quality measurement** — *Jan 2021- Mar 2021*

- Corrected the distortion and blurriness of photos by application of Digital Orthophoto Map technology.

- Accessed the performance of different sensors bonded with UAVs such as MultiSpectral Instrument (MSI) of retriving water quality measurement data.

**Removal of NDMA from Water by UV-Advanced Oxidation Process** — *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.

- Accelerated the calculation of reaction rate constants by predicting them using low cost input features.

## EXPERIENCE

- **Genhouse Pharmceutical 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 by producing reusable and scalable scripts in SQL, improving operational efficiency by 40%.

  ○ Selected data using Excel and SQL and transformed data into structured representations using Graphs.

  ○ Coordinated with staff regrading relocation and transportation arrangements, maintained daily import and export parcel data, and managed office correspondence.

## SKILLS SUMMARY

- **Languages:**   Python, HTML, CSS, JavaScript, Java, LaTeX
- **Software:**   Origin, MySQL, ArcGIS, AutoCAD, Matlab

## PUBLICATIONS

Xiaosong Zha, **Suwen Jin**, Qian Zhao, Peinan Huang, et al.(2022). Study on removal of NDMA from water by UV-based advanced oxidation technology. *Water Treatment Technology*(09), 32-37.(in Chinese)