**Hao Wang**

**Tele**: +86 13397964168 / **Mail**: [sghwan28@gmail.com](mailto:sghwan28@gmail.com)

|  |  |
| --- | --- |
| **Education** | |
| University College London (UCL) | 2019.09 – 2020.12 |
| Master of Science in Applied Analytical Chemistry | **Distinction Degree** |
| **Core Modules**:  Data Analysis and Theory in Analytical Chemistry; Analytical Strategies; Connecting Writing with Research; Transferable Skills for Scientist | |

|  |  |
| --- | --- |
| Xi’an Jiaotong-Liverpool University & University of Liverpool | 2015.09 - 2019.09 |
| Bachelor of Applied Chemistry | **2:1 Class Degree** |
| **Core Modules**:  Advanced organic Chemistry; Inorganic Material Chemistry; Inorganic Applications of group theory; Practical Chemistry; Heterocyclic Chemistry and Drug Synthesis | |

|  |  |  |
| --- | --- | --- |
| **Internships** | | |
| Weidmuller Interface (Suzhou) Co., Ltd | Quality intern | 2018.7 – 2018.8 |
| **Description & Summary**:   * Create test plans for incoming materials by the SAP system * Analyze the coating of electronic components using coating thickness gauge and scanning electron microscope (SEM) * Introduce the test plan to workers in the workplace and Instruct them to operate high-precision measuring instruments. | | |

|  |  |  |
| --- | --- | --- |
| **Working Experience** | | |
| PerkinElmer Shanghai (PKI) | System QA Engineer | 2020.11 – to date |
| **Description & Summary**:   * Work as quality assurance of the foreign scrum team including planning, estimating, and verifying user stories and acceptance criteria. (Biweekly meeting and communication in mail and Teams) * Communicate with developers, automation test team, and the product manager for domain requirement analysis. * Design test case and perform the manual test on a developing web application. * Familiar with software development lifecycle, and the quality assurance work. | | |

|  |  |  |
| --- | --- | --- |
| **Research Experience** | | |
| University of Liverpool | ***Synthesis and characterization of cage complex [Co(diNOsar)]Cl3*** | 2019.03 – 2019.06 |
| **Description & Summary:**   * Design the synthesis experiment individually by consulting literature. * The cage complex was successfully prepared with a yield of 64% (theoretical 71-81%) * Analysis of the final product by various analytical approaches including IR, NMR, MS, TLC, and element analysis. | | |

|  |  |  |
| --- | --- | --- |
| University College London | ***Developing pair distribution function analysis using Mathematica*** | 2020.03 -2020.07 |
| **Description & Summary**:   * Systematically learned the data analysis theories and statistics in analytical research; Summarizes the history, application, and potential of Neutron diffraction and Pair distribution function. * Written codes in Mathematica achieve the auto-simulation of the calculated pair distribution function for small-size models. The simulated results were proven to be highly consistent with another PDF simulation software PDFFIT * Presented the calculated results visually in Mathematica; Discussed the application of reverse monte Carlo method in pair distribution function analysis in the final report. | | |

|  |
| --- |
| **Abilities and Skills** |
| Language:   * Chinese (Native Speaker) * English (proficient, three years abroad-study in the UK, and working experience in foreign companies) |
| Computational Skills:   * Proficient in MS **Word**, **Excel,** and **PowerPoint**, Familiar with **Latex.** * Skilled in **Python** and **Mathematica. Familiar with PostgreSQL and Gherkin and MATLAB.** * Know some basic with automation test tool **selenium**, framework **behave** and **pytest**. * Familiar with chemistry software including **ChemDraw**, **SimplicityChrom**, **Spartan'18** et.al |
| Other Skills:   * Chemistry Lab work experience in college, good knowledge of many analytical instruments including GC/LC, MS, IR, AAS, AES, and NMR. * Good at writing in both Chinese and English, strong ability in summary and report. * Good communication ability in both Chinese and English * Familiar with statistics and data analysis. |