Oliver Hagger

London, UK | (+44) 07450205466 | ohagger@icloud.com | [LinkedIn](#) | [Website](#) | [Twitter](#)
MChem, PGCE, AMRSC

RESEARCH EXPERIENCE & EDUCATION

University College London & DSTL   **London, UK**
Doctor of Philosophy   September 2021 – Present

- Supervised 5 MSc research projects in an analytical chemistry module, resulting in an academic paper submission receiving excellence awards.
- Presented findings at the ISPC25 conference to demonstrate expertise & broaden the impact of research.
- Achieved highest individual grade on PhD upgrade report, showcasing comprehensive knowledge of the field.
- Spearheaded laboratory submission for the silver LEAF sustainability award through collaboration with other researchers, extending the efficiency and effectiveness of the laboratory.
- Actively sought out opportunities to collaborate with researchers in other fields to expand the scope and impact of research
- Techniques: 3D printing, Light microscopy, Mass spectrometry, Raman, SEM, SERS, TEM, UV-Vis, and XPS

Professor Jerome Robinson Group   **Rhode Island, USA**
Scientific researcher   June 2019 – September 2019

- Facilitated weekly team meetings to review progress & identify solutions, resulting in a 20% reduction in errors and meeting deadlines.
- Adapted quickly to new research environments, relocating across various countries and collaborating with diverse teams of scientists.
- Evaluated the performance of 10 different catalysts in optimising yield by 20%, increasing the efficiency of the production process by 10%.
- Techniques: GC, HPLC and NMR.

Assistant Professor Darren Bradshaw Group   **Southampton, UK**
Scientific researcher   September 2018 – May 2019

- Collaborated with a multidisciplinary team of scientists to integrate and fit into a laboratory environment, driving the successful execution of projects.
- Developed protocols for the automation of sample preparation procedures, increasing throughput efficiency by 15%.
- Analysed data from over 500 experiments and identified new trends contributing to completing the research objectives.
- Techniques: IR, Mass spectrometry, PXRD, SCXRD, and TGA

PREVIOUS EDUCATION

Integrated Masters   **University of Southampton, UK**
Second Division Upper Class   September 2016 – May 2020

- Collaborated with a small team to present projects & reports, achieving an 85% grade.
- Regularly delivered a high-quality product far ahead of time, followed up by clear, concise lab reports
- Utilised advanced Microsoft Excel skills for regression analysis and calculating concentrations of unknown samples with 98% precision.
- Spearheaded a successful biodiesel aviation project while maintaining quality standards through careful management of the team involved.

A-levels   **Cedars Upper School, UK**
                                                                         September 2013 – May 2015

A – Mathematics, Chemistry, Physics (AS)
B – Biology

WORK EXPERIENCE

QA   **London, UK**
Data analyst internship   June 2020 – September 2020
- Delivered ad-hoc analysis to 40+ clients, achieving project objectives within time and budget constraints.
- Produced campaign analyses for clients, uncovering trends & providing actionable recommendations.
- Conducted in-depth data analysis of large datasets to identify trends and generate actionable insights, using advanced SQL queries to uncover key patterns.
- Developed predictive models based on statistical inference & programming techniques (Python and R).

National Crystallography Centre   **Southampton, UK**
Scientific researcher   September 2019 – June 2020
- Managed the handling of confidential client data while conducting comprehensive research on the properties of crystals using single-crystal x-ray diffraction techniques.
- Harnessed Diamond Light Source facilities to analyse crystal sponges using the crystalline sponge method & produce a detailed report, resulting in an increased understanding of non-crystalline compounds.
- Collaborated with Rigaku and Merck to optimise single crystal x-ray diffraction (SCXRD) techniques for characterising non-crystalline compounds, increasing the accuracy rate by 25%.

Tesco PLC   **Tring, UK**
Customer Sales Assistant/Manager   2014 – 2020
- Improved communication and people skills in this role
- Supervised 5 team members in optimising daily operations, resulting in a 10% increase in-store efficiency and a 15% boost in profits.
- Facilitated timely restocking & replenishment process for over 2000 products with a 98% accuracy rate, driving customer satisfaction up by 20%.
- Conceived innovative solutions to complex customer issues, leading to an improved customer experience with a satisfaction rate of 95%.

VOLUNTEERING

Enactus, Southampton
- Organised Future Brew start-up business, working with local supermarkets to reuse unwanted bread & craft ale, resulting in second place at the 2020 National Enactus Expo.
- Coordinated partnership negotiations between Southampton University student bar & Future Brew to offer craft ale on tap; sales generated over £2K in revenue within three months.

Sports
- Raised £500 for Brain Tumour Research, Keech Hospice and other charities by completing three half marathons – The Great North Run, Milton Keynes Half and Southampton Half Marathon.
- Organised fundraising events to collect donations from corporate sponsors & local businesses, resulting in a 25% increase in funds raised year-over-year.

SKILLS & INTERESTS

Programming Languages: HTML, CSS, Latex, Python, R, SQL.
Visulisation and design: Adobe suite, Fusion 360, Inkscape, Microscoft Office, Origin, PowerBI, Tableau.
Languages: French (Beginner/Intermediate)
Interests: Fitness, healthy cooking, independent learning, public speaking and travel

REFERENCES
Available on request