

# Kalen Josifovski

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<https://github.com/KalenJosifovski>

## Education

### University College London (UCL)

MSc Chemical Research

Graduated with merit.

London, UK

Sep. 2021 – Sep. 2022

### University of Nottingham (UoN)

BSc Medicinal and Biological Chemistry

First-Class Honours (1:1).

Nottingham, UK

Sep. 2017 – May. 2020

## Experience

### S2DS Bootcamp

Data Scientist

Remote, UK

Mar. 2025 – Apr. 2025

- Engaged in a five-week intensive data science bootcamp designed for individuals with advanced degrees in analytical fields.
- Collaborated within a team to tackle a real-world data science project provided by an industry partner, applying Agile methodologies to manage project development.
- Enhanced skills in data analysis, machine learning, and coding, while gaining practical experience in client interaction and project management.
- Participated in networking events and seminars, broadening understanding of data science applications across various industries. This experience facilitated the transition from a research chemist to a practical data science role.

### Travel

Career Break

Asia

Jan. 2024 – Jan. 2025

- Fulfilled a long-held dream of travelling through Asia, becoming immersed in diverse cultures.
- Achieved advanced SSI diving certification, fostering personal growth and accomplishment.

### Charnwood Molecular

Associate Research Chemist

Loughborough, UK

Nov. 2022 – Dec. 2023

- Designed novel small molecule compounds for various therapeutic areas, achieving improved potency and selectivity.
- Utilised molecular modelling tools to identify structure-activity trends, leading to lead compound identification.
- Designed and optimised synthetic routes, maximising yield and purity.
- Employed analytical techniques to ensure compound purity and characterisation.
- Collaborated cross-functionally with biologists and pharmacologists, interpreting assay results for efficient optimisation.
- Presented research progress to clients in weekly project meetings.
- Implemented new SOPs as a microwave super-user, enhancing safety and equipment utilisation.
- Spearheaded synthesis strategy for the 11th RSC retro-synthesis competition.

### UCL School of Chemistry

Graduate Researcher – Anderson Group

London, UK

Sep. 2021 – Sep. 2022

- Conducted independent investigations, screening reaction conditions and performing meticulous control experiments.
- Reviewed literature to develop synthetic methodology and understand reaction mechanisms.
- Maintained laboratory equipment and adhered to safety protocols.
- Collaborated with colleagues on diverse research projects, gaining exposure to experimental techniques.

### PRA world Ltd.

Research Technician

Melton Mowbray, UK

Sep. 2020 – May. 2021

- Developed processes for carbon black extraction and purification from end-of-life tyres, improving yield and purity.
- Functionalised carbon black nanoparticles, enhancing compatibility as additives in paints and plastics.
- Conducted formulation testing and particle size measurements to ensure optimal physical characteristics.
- Collaborated with partner companies to achieve project milestones.
- Conducted extensive patent literature searches to ensure process novelty.

## Skills, Certifications & Interests

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### Technical Skills:

- Programming languages: Python (intermediate), SQL (basic), zsh (basic), jekyll (basic).
- Programming libraries: NumPy, pandas, pytorch, scikit-learn, scipy, matplotlib, seaborn, plotly, RDKit, OpenMM, biopython, pymol, chembl-webresource-client, OpeneyeTK.
- Cheminformatics skills: Library searching, docking, database querying, physical property prediction.
- Advanced laboratory skills: Organic synthesis, purification techniques, analytical methods (HPLC-MS, 1D/2D NMR).
- Med-chem skills: Drug design pipelines and structure-activity relationship (SAR).
- Software skills: ChemDraw, Mestrenova, Masslynx, Topspin.

### Certifications:

- University of California Irving: PharmSci 175/275. Drug Discovery Computing Techniques.
- Volkamer Lab: TeachOpenCADD (DOI:10.5281/zenodo.1486226).
- HarvardX: PH526x – Using Python for Research.

### Personal Skills:

- Excellent scientific communication skills with experience presenting research findings.
- Languages: English (Native), Macedonian (Fluent).
- Right to work in the UK and EU/EEA.
- Full UK driving licence.

### Interests:

- Scuba diving (SSI advanced open water certified, 40+ dives)
- Boulder/climbing (grade V6-7/6c+)
- Practitioner of Muay Thai (5 years).