

Experience

Medical Paralegal – Self-employed**12/2023 – Present**

- Researching literature to support medicolegal reports, reorganising medical evidence bundles and summarising medical history timelines.

Research Intern – University College London (UCL)**06/2023 – 09/2023**

- Maintained chemical inventory records, coordinated maintenance and waste management, ensuring efficient lab management and aiding the move to new premises at UCL East.
- Created instructional content on lab etiquette and safety for researchers.
- Performed research into perovskite caesium lead halide Quantum dots, synthesising and collecting on UV-Vis, photoluminescence and X-ray Photoelectron Spectroscopy (XPS).
- Contacted Harwell XPS to arrange additional data collection for our team, resulting in a site visit and novel data collection.

Private Tutor – Self-employed**09/2013 – 01/2023**

- Taught beginners Latin, GCSE Science and A-Level Chemistry, Maths and Physics; students improved an average of 2 GCSE grades.
- Engaged in distance learning techniques while volunteering with the Coronavirus Tutoring Initiative.

President of UCL Art Society – UCL Students' Union**07/2020 – 06/2022**

- Led a team of 18 students to deliver between 2 and 7 events per week.
- Received safeguarding training and risk assessed all activities.
- Managed detailed attendance records, budgets and collating of feedback. Based on feedback, I redesigned the painting courses to better meet student demands and schedules; subsequently this course consistently sold out.
- Represented the UCL Art Society in public engagements, introduced guest speakers, and coordinated with contractors.

Chemistry Teaching Assistant – Chemistry Department, UCL**06/2021 – 10/2021**

- Interviewed students and collated feedback to develop a new module for postgraduate taught students.
- Created new teaching resources on 'Moodle', including assignments, digital lessons on scientific writing, and laboratory skill refresher courses.

Connected Learning Intern – Anthropology Department, UCL**11/2020 – 02/2021**

- Delivered training on appropriate use of MS Teams, Zoom and other supporting software essential in delivering lecture content remotely.

Science Outreach Digital Producer – Bloomsbury Festival**08/2020 – 10/2020**

- Produced a digital outreach programme, which included advising on content and format, ensuring material was delivered on time and that the material was accessible to the target audience.
- Liaised between a variety of people to deliver diverse content to a wide audience. Involved working with academics, students, producers, non-profit organisations, medics and industry professionals.
- Provided tech support for webinars and supported events with digital hosting and stewarding.

Connected Learning Intern – Anthropology Department, UCL**06/2020 – 10/2020**

- Assisted staff transitioning to online teaching, delivered training on video editing, recording and online meeting scheduling. Also liaised with library services to update online reading lists.
- Responsible for ensuring that all online teaching resources met accessibility requirements and were of a high level of clarity.

Summer Intern – Chemistry Department, UCL**06/2018 – 08/2018**

- Researched and summarised more than 40 papers on student retention.
- Created an introductory Moodle page aiming to bridge the gap between secondary and tertiary education; created revision videos and quizzes, a department virtual tour and provided basic lab safety informational videos.

Education

MSci Chemistry (2:1) University College London (UCL)

2017 – 2023

- Written work to a high standard: my Chemical Literature review achieved 81% on catalysts for zinc-air batteries.
- Confident tailoring scientific writing for all audiences; obtained 77% for my Tech Journalism module with Dr Sunny Bains.
- Analytical skills; consistently achieved >70% in lab modules, 83% in Physical Chemistry.
- Experience analysing emerging technology for mini modules; achieved 82% for '*CO₂ capture, sequestration and utilisation*' and 77% in '*Green chemistry, renewable energy landscape and nano*'.
- Confident in standard lab techniques and highly aware of safety procedures; I was the Covid-19 safety officer for UCL Art Society and completed a risk assessment before every laboratory session.

Wimbledon High School

2010 – 2017

A Levels: Chemistry (A), Physics (A), Mathematics (A), Latin (A)

GCSEs: 10 A*s, 1 A; including Mathematics (A*), English (A), (FSMQ) Additional Mathematics (PASS)

Skills

Research	Conducting literature reviews, preparing questions, planning and executing research.
Events	Publishing, hosting and public speaking.
Visual editing	Software including Adobe Premier Rush, Audacity, Adobe Photoshop, Adobe Illustrator.
Programming	Proficient in Python and familiar with basic C++ for Arduino.
Scientific Programs	Software including Jupyter, PyMol, Crystal Maker, Origin, Data Warrior, WebMO.

Professional affiliations

2024 – Present	Institute of Physics (Member)
2024 – Present	Institute of Materials, Minerals and Mining (Student Member)
2021 – Present	International Federation of Societies of Cosmetic Chemists (Student Member)
2021 – Present	Society of Cosmetic Scientists (Student Member)
2021 – Present	Society of Dyers and Colourists (Member)
2020 – Present	Society of Chemical Industry (Student Member)
2020 – Present	Royal Society of Chemistry (Associate member)

Interests

Music	Taught myself to play mandolin, piano and guitar. Play flute to Grade 7 ABRSM standard.
Art	Attend many exhibitions and photograph and sketch from life. Own a digital microscope and am interested in microscopy photography as an art form.
Science	I have attended conferences as a student journalist, including Chemical Watch's Chemical Management conference and MOFS for energy and the environment.
Accessibility	I was a guest on " <i>The Invisible Gift</i> " podcast, sharing my experiences of dyslexia, with host Andrew Kitley.

References available upon request

For further detail of employment history and module selections please visit my LinkedIn:
[linkedin.com/in/mirabel-brow](https://www.linkedin.com/in/mirabel-brow)