LUCY FILLBROOK

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CAREER PROFILE

A dedicated and innovative researcher with a strong background in Chemistry. Specialising in data analysis and Python programming, I bring a robust quantitative skill set and a proven ability to solve complex problems.

PROFESSIONAL EXPERIENCE

09/2019 – 09/2023 **PhD Researcher in Chemistry**

University of New South Wales – Sydney

- Conducted research on molecular motion in dynamic solutions.
- Awarded the UNSW Scientia PhD Scholarship, demonstrating academic excellence and commitment to innovative research.
- Developed Python scripts for data analysis and numerical simulations (available on GitHub), showcasing strong quantitative and problem-solving abilities.
- Collaborated with multidisciplinary teams globally, highlighting the ability to work well in a team and contribute to diverse, international projects.
- Managed multiple research projects, each involving data collection, report writing and literature review, showcasing skills in project management.
- Authored 10x scientific papers in high-impact journals (see my Google Scholar), indicating strong written communication skills.
- Engaged in research exchange with laboratory in the US, demonstrating adaptability and an ability to thrive in new and fast-paced environments.

09/2022 – 09/2023 **Laboratory Efficiency Assessment Framework (LEAF) Representative**

School of Chemistry, University of New South Wales – Sydney

- Led a research group in sustainable practices (in accordance with LEAF), showing a passion for decarbonisation and minimising environmental impact.
- Compiled sustainability reports, showcasing strong attention to detail.

10/2022 – Present **Tutor (Volunteer)**

Girl's Programming Network – Sydney

- Mentored high school girls in Python programming, demonstrating the ability to communicate complex concepts and a passion for technology.
- Coordinated educational activities for over 200 students, showcasing leadership and organisational skills.

EDUCATION

2023 **PhD Candidate (Chemistry)**, University of New South Wales, Australia

2022 **Research Exchange**, Pennsylvania State University, US

2019 **Master of Chemistry (Chemistry with Mathematics),** University of Southampton, UK

ADDITIONAL INFORMATION

Technical skills: Proficient in Python and Excel, and experience with HTML and SQL.

Languages: Basic Spanish ability and beginning to learn Italian.

References: References can be provided on request.

Work rights: Australia (full), UK (full).