

# 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:** Python (proficient), Excel (proficient), HTML (basic), SQL (basic).

**Languages:** Basic Spanish ability and beginning to learn Italian.

**References:** References can be provided on request.

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