

Connor Patrick

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EDUCATION

University of Oxford

PhD in Organic Chemistry (DPhil)

2018 – 2022

Oxford, UK

Thesis Title: “Towards Polyynes Rotaxanes and Catenanes”

- Stabilising highly reactive carbon species. Work published in multiple research articles in peer-reviewed journals.
- Completed graduate courses in NMR, Mass Spectrometry, XRD and communication skills.

Durham University

Master in Chemistry (MChem)

First Class (Hons.)

2014 – 2018

Durham, UK

Dissertation Title: “Synthesis and spectroscopic study of lanthanide complexes”

- Work published in peer-reviewed journal.

PROFESSIONAL EXPERIENCE

Cambridge Display Technology Ltd.

Scientist

August 2022 – Present

Cambridge, UK

- Cambridge Display Technology is the European R&D centre for Sumitomo Chemical.
- As a scientist specialising in chemistry, I help drive the early-stage R&D of functional organic materials, while also supporting proof-of-concept projects by assessing technical and commercial viability.
- I have strong experience in collaborating with interdisciplinary teams to design and execute creation of novel functional materials.
- Contribute to strengthening the IP portfolio by drafting of patent applications.
- I develop and maintain various Python scripts and small applications to assist in computational chemistry workflow, data processing and storage.
- I lead a team tasked with the configuration and migration to a SaaS electronic laboratory notebook (ELN).

University of Oxford

Postdoctoral Research Assistant

March 2022 – June 2022

Oxford, UK

- A brief PostDoc spent finalising experimental from during my PhD to support a future publication.
- Work published a research article in a leading peer-reviewed journal.
- Led the implementation of an electronic laboratory notebook first to the research group, and later the department.

Cambridge Display Technology Ltd.

Technical Assistant

June 2017 – September 2017

Cambridge, UK

- A summer placement supporting the R&D of organic polymers for emissive and transport layers in flexible OLED devices.
- Developed standard protocols for flow-based air-sensitive and metal-catalysed reactions.

PROFESSIONAL COURSES AND CERTIFICATIONS

100 Days of Code: The Complete Python Pro Bootcamp (2025)

Online Course – Udemy (Dr Angela Yu)

Introduction to Cheminformatics and Medicinal Chemistry (2023)


Online Course – Udemy (Dr Guilherme Matos Passarini)

CERTIFICATIONS, SKILLS & INTERESTS

Research Skills: Synthetic and analytical chemistry; purification; material characterisation (NMR, MS, UV-vis, FT-IR, DSC, TGA); general laboratory skills; computational chemistry (HyperChem, MOPAC, Gaussian).

Technical Skills: Knowledge of Python (including Flask) and data-oriented Python frameworks (SciPy, Pandas, NumPy & Matplotlib). Experience with SQL, Postman, Git, API integrations, JavaScript, Microsoft Office, and Adobe Creative Suite. Understanding of virtualisation (VMware and Xen) and containerisation (Docker).

General Skills: Problem solving; critical thinking; communication; project management; cross-functional collaboration; strong IT proficiency.

Interests: My primary interest is technology (I am maintaining a homelab) and enjoy developing my own simple apps or working on small projects (see my GitHub ). I also enjoy 3D modelling/printing, good food, cooking and cycling.

PUBLICATIONS

1. **C. W. Patrick**, Y. Gao, P. Gupta, A. L. Thompson, A. W. Parker and H. L. Anderson, *Nat. Chem.*, 2024, **16**, 193–200.
Highlighted in: A. Saura-Sanmartin, *Nat. Chem.*, 2024, **16**, 154–156.
2. W. Stawski, J. M. Van Raden, **C. W. Patrick**, P. N. Horton, S. J. Coles and H. L. Anderson, *Org. Lett.*, 2023, **25**, 378–383.
3. **C. W. Patrick**, J. F. Woods, P. Gawel, C. E. Otteson, A. L. Thompson, T. D. W. Claridge, R. Jasti and H. L. Anderson, *Angew. Chem.*, 2022, **61**, e202116897. **Highlighted in:** T. West, *Nat. Synth.*, 2022, **1**, 98.
4. H. L. Anderson, **C. W. Patrick**, L. M. Scriven and S. L. Woltering, *Bull. Chem. Soc. Jpn.*, 2021, **94**, 798–811.
5. K. Mason, A. C. Harnden, **C. W. Patrick**, A. W. J. Poh, A. S. Batsanov, E. A. Suturina, M. Vonci, E. J. L. McInnes, N. F. Chilton and D. Parker, *Chem. Commun.*, 2018, **54**, 8486–8489.