# Michael Strafford Scholz

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## Summary

I am a highly motivated scientist whose research involves a mixture of lab work, data analysis, physical simulation, and software development. My background is in physical chemistry and I am passionate about solving physical problems using both experiment and theory. As a proponent of reproducible science, I strongly support open access to papers and use of software notebook tools.

## Experience

2020– **Postdoctoral Research Fellow**, *University College London, London, United Kingdom*.
Currently, I am employed as a postdoctoral researcher using lasers and electron spectroscopy to study how chemicals in animals like jellyfish and fireflies glow so efficiently.

2016–2021 **Graduate Research Assistant**, *University of Melbourne, Melbourne, Australia*.
During my PhD, I used lasers and custom-built mass spectrometers to study how molecular machines and switches change shape after absorbing light, and to investigate how molecular symmetry affects what colours of light they absorb.

## Education

2016–2021 **Doctor of Philosophy in Chemistry**, University of Melbourne, Parkville.
Thesis: *Electronic spectroscopy and structure of gas-phase ions*
Advisor: Professor Evan Bieske.

2012–2015 **Bachelor of Science (Honours) in Chemistry**, University of Melbourne, Parkville.
Thesis: *Collisional activation of ions in a tandem drift tube ion mobility mass spectrometer*

## Publications and talks

- **Academic papers:** 22 publications, 2 as first author, $h$-index of 10, journals such as Physical Review Letters, Angewandte Chemie, and the Journal of Physical Chemistry Letters
- **Talks and seminars:** 3 conference talks, 6 university seminars, 5 conference posters

## Skills and knowledge

- **Programming languages:** Julia, Python (inc. Numpy, Scipy, Matplotlib), LabVIEW, (ba)sh
- **Lab hardware:** Nanosecond and femtosecond lasers, mass spectrometry, ion and molecular beams, electron spectroscopy, ultrafast delay lines
- **Other software:** Data analysis (inc. Jupyter), high-performance computing, quantum chemistry packages (inc. Gaussian, PySCF), molecular dynamics, lab hardware interfacing, git, Github, and version control
- **Soft skills:** Team management, academic paper and technical report writing
- **Spoken languages:** English (native), German (A2), Japanese (A1)
- **Other interests:** Cycling, cooking, hiking, camping