Lucas Colley (he/him)

CV

lucas.colley8@gmail.com
lucascolley
lucascolley0
lucascolley.github.io
Newcastle upon Tyne / Oxford, UK

Education

2022 – 2026 **MCompPhil**, *University of Oxford, Christ Church*

- Hoare Prize for best overall performance in Computer Science and Philosophy 2026.
- Roach Exam Prize from Christ Church.
- Cipriani Prize in Computer Science for extracurricular work.
- Philosophy Specialisation: Political and Feminist Theory, Ethics, Ethics of AI. Coursework:
  - *'Does the extent to which one's desires are shaped by prevailing norms and social expectations have any bearing on whether one's actions are free?'*
  - *'Does widespread AI automation undermine meaningful human work?'*
- CS Specialisation: Scientific Computing, Machine Learning, AI, Security, Quantum.
  - Dissertation: *Batched and Hardware-Accelerated Iterative Sparse Linear Solvers in Python.*

Experience

2024 – Present **Open Source Maintainer**, *SciPy* , *Pixi* , *data-apis.org* , *misc.*

Expertise: array computing & acceleration, package management, DevOps, DevEx, DevRel.

- SciPy (Steering Council) – Fundamental algorithms for scientific computing in Python.
- Pixi (Core Maintainer) – Cross-language, cross-platform package manager, written in Rust.
- Consortium for Python Data API Standards – array API standard , `array-api-extra` .
- Scientific Python – Forum moderator.
- conda-forge – Feedstock maintainer (various) for the largest conda package channel.
- Other contributions: `cpython`, `numpy`, `scikit-learn`, `marray`, `conda/ceps`, `quantity-dev`.

2024 – Present **Conference Speaker**, *EuroPython* , *EuroSciPy* , *PyData Paris*

- 'A Hitchhiker's Guide to the Array API Standard Ecosystem' (video , slides)
- 'Pixi: better developer experience for scientific Python projects'
- 'Instrumented CPython builds with Pixi'
- '`LinearOperator`: stories from advancing an 18 year old data structure in SciPy'
- 'The Array API Standard in SciPy'
- 'MArray – Add Mask Support to any Array API Standard Compatible Backend'

2025 **Mentee**, *prefix.dev*

Developed and maintained Pixi; contributed to the wider conda ecosystem (blog post).

2023 – 2025 **Undergraduate Vice-President & Access Officer**, *Christ Church, Oxford*

- Gained leadership, negotiation, and management experience.
- Represented over 400 undergraduate students to the governing body of the college.
- Chaired general meetings and maintained the constitution of the student body.
- Led access and outreach initiatives, supporting those from disadvantaged backgrounds with an interest in higher education.
- Gained safeguarding experience, working with under 18s on residential programmes.
- Captained the Men's 2nd XI football team.

2023 **Intern**, *Quansight*

Completed foundational work towards SciPy's support for the array API standard (blog post), under the mentorship of Ralf Gommers and Pamphile Roy.

Skills

Technologies Python, Rust, Git, GitHub, Linux/macOS/Windows, Pixi, conda, rattler-build, Meson, NumPy, SciPy, scikit-learn, PyTorch, JAX, matplotlib, GPU & parallel computing, Google Cloud, Docker, Typst.

Languages English – Native

August 10, 2026