

H. M. Wakeling, Ph.D.

www.linkedin.com/in/hmwakeling/ | <https://hmwakeling.github.io/>

A postdoctoral research assistant in particle accelerator environmental sustainability at the University of Oxford. Sustainability lead for the proposed ISIS-II Neutron and Muon Source facility. Strong advocate for environmental sustainability and equity, diversity and inclusion within research. Extensive experience in data analysis and visualisation, collaboration, event coordination, communication, teaching, public speaking, and report writing, editing and reviewing.

CURRENT ROLE

Postdoctoral Research Assistant in Particle Accelerator Environmental Sustainability -

John Adams Institute for Accelerator Science (JAI), University of Oxford, UK — 2023–

- Sustainability lead for the proposed ISIS-II Neutron and Muon Source.
- Performing a (simplified) Life Cycle Assessment of the design options of ISIS-II.
- Developing sustainability guidelines, tools, and collaboration between large accelerator facilities worldwide.
- Conference organiser for the Sustainable High Energy Physics (SustHEP) [2024](#), [2025](#) and [2026](#) workshops.
- Active member of the Sustainable HECAP+ Initiative hecap.eco — 2021-present.

List of publications and notable international presentations available at [website portfolio](#).

EDUCATION

Ph.D Particle Physics - McGill University, Montreal, Canada — 2017–23

M.Sci Physics Upper Second Class Honours - Royal Holloway University of London (RHUL), UK — 2013–17

SCHOLARSHIPS AND AWARDS

- IUPAP Accelerator Engagement Ambassador \$1,000 (Mar 2026)
- Graduate Excellence Award for furthering professional development \$2,350 (Dec 2022)
- Inaugural Department of Physics Community Building Award \$1,000 (May 2022)
- GREAT Graduate Travel Award \$1,000 (Twice: Dec 2021 and May 2022)
- Murata Family Fellowship \$12,000 (2020–21)
- Graduate Excellence Award \$1,000 (Twice: Feb 2019 and Jan 2020)
- Wolfe Fellowship in Scientific and Technological Literacy \$6,000 (2019–20)

TECHNICAL SKILLS

- **LCA:** GreenDelta OpenLCA certified professional trainer and certified advanced LCA user.
- **Software:** Python, C++, bash, ROOT, HTML.
- **Language:** English - fluent. French: intermediate (FIA206-1 Cours de Français).
- **Music:** Saxophone (grade 5), flute and piano. Active amateur musician.
- **Soft:** Collaboration, leadership, project organisation, event coordination, communication and presentation.

REFERENCES

- Prof. Philip Burrows, John Adams Institute for Accelerator Physics, University of Oxford (PDRA supervisor, 2023–)
- Dr. John Thomason, Accelerator Division Head, ISIS Neutron and Muon Source (Line manager, 2023–26)