

Update on Education & Training and Public Engagement at JAI

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CERN & JAI University of Oxford

JAI Advisory Board 2026
16 April 2026

Introduction

- The JAI programme is organised around three pillars:
 - Research & development for advanced and novel accelerator technology.
 - **Training** of next generation of accelerator scientists in accelerator techniques.
 - Advanced accelerator applications in science & society, impact and **public engagement / outreach.**

EDUCATION AND TRAINING

Guiding Strategy

- Training in accelerator science & technology is **one of the pillars** of JAI mission and recognised by JAI Advisory Board to be **world-leading**.
- Objective is to **develop skills** of next generation accelerator scientists.
- JAI has provided **graduate & undergraduate training** in accelerator science & technology since first course delivered in 2005 (**for more than 20 academic years**).
- Students participate in **comprehensive core formal training** through **academic courses & projects** and 3 years of cutting-edge **research** at state-of-the-art facilities (national & international).
- Many JAI academic staff invited to give courses & lectures at **international accelerator schools**.

JAI Graduates & Careers

- JAI training is **well aligned with STFC strategic aims** to address national demand for **scientifically-skilled workforce** to sustain UK's world-leading position in research & technology and JAI's unique aspect of **academic training** for PhD students as addressed in **2017 STFC Accelerator Strategy Review & 2019 Accelerator Programme Evaluation**.

- **PhD graduates total more than 130; all obtained fruitful employment; about 20% female.**
 - Alumni consistently pursue **careers in science & technology**
 - Destinations include **research positions** in universities, ASTeC, BNL, CERN, CI, DESY, LBNL, LLNL, NPL, RAL, SLAC, PSI etc.
 - Some reached **full academic positions**; about **15% work in industry**.

JAI CERN Fellows / Staff

2011:

Robert Apsimon

Ben Constance

2015:

Ewen Maclean (now staff)

2016:

Davide Gamba (now staff)

2017:

Neven Blaskovic

Alex Gerbershagen (staff)

2019:

Michele Bergemaschi

Swann Levasseur

Leon van Riesenhaupt

2020:

Jan Paszkiewicz

Eugenio Senes

2021:

Andrey Abramov

Rebecca Ramjiawan

2022:

Daniele Butti

Luke Dyks

Lawrence Wroe

2023:

Jake Flowerdew

Helen Guerin

Collette Pakuza

Pablo Arutia Sota (staff)

2024:

Max Topp Mugglestone

Laurence Nevay (staff)

Rebecca Taylor

2025:

Florian Stummer

Daniel Harryman (staff)

2026:

Jack Salvesen

Bjoern Lindstrom (staff)

22 Fellows + 5 Staff in ATS
2 Fellows now Staff



Graduate Destinations – Research Institutes

- Since JAI foundation in 2004: **>130 PhD graduates** (+ 48 in progress)
- Graduates secured positions at: e.g. CERN, DESY, ESS, SLAC, FNAL, BNL, LBNL, STFC, universities

- **CLF:** Nicolas Bourgeois, Steven Dann, Kirill Fedorov, Benjamin Spiers, Christopher Thornton
- **Diamond:** Ian Martin, Lorraine Bobb, Neven Blaskovic
- **ISIS:** Ben Pine, Rob Williamson, Steven Brooks, Scott Lawrie, *Ciprian Plostinar*
- **DESY:** Andreas Walker, Rob Shalloo, Emily Archer, John Dale, Tony Hartin, Jon Wood, Kristjan Poder
- **MAX IV:** Steve Molloy, Francis Cullinan, *Neven Blaskovic*
- **ESS:** *Neven Blaskovic, Ciprian Plostinar*
- **PSI:** Alex Gerbershagen
- **SLAC:** Christine Clarke, Glen White, Robbie Watt, Elias Gerstmayr, Savio Rozario
- **Fermilab:** Rob Ainsworth
- **BNL:** Christina Swinson
- **LBNL:** Tony Gonsalves, Alex Picksley
- **LLNL:** Johannes Van de Wetering

Group Leaders

Rob Williamson

2023

Accelerator Physicist Group Leader at ISIS, STFC

Ian P. S. Martin 2011

Head of Accelerator Physics Group
Diamond Light Source

Lorraine Bobb
Head of Diagnostics, DLS

Stephen Molloy

2006

Head of Accelerator Operations at MAX IV Laboratory
Lund, Skåne län, Sverige · [Kontaktinformation](#)
703 följare · Fler än 500 kontakter

Rob Shalloo

Emmy Noether Group Leader | Plasma Accelerator Physicist
Hamburg, Hamburg, Tyskland · [Kontaktinformation](#)



Kristjan Pöder

2016

Lead of Plasma Accelerator Application development at
DESY

**prof. A. (Alexander)
Gerbershagen**

2013



University of
Groningen

Head of Particle Therapy Research Center (PARTREC),
Team Leader for Accelerator and Radiation Physics

Ciprian Plostinar
Head of Accelerator, ESS

Jonathan Wood

2016

Deutsches Elektronen-Synchrotron DESY: Hamburg, DE

2024-01 to present | Teamleader for beam-driven plasma acceleration (MPL)
Employment



UCL HEP Group
<https://www.hep.ucl.ac.uk> › ~jolly › SimonJollyCV

Prof. Simon Jolly – Curriculum Vitae

Leader of the UCL High Energy Physics Proton Beam Therapy group investigating novel detectors and diagnostics for quality assurance and imaging.

University Faculty



UCL HEP Group

<https://www.hep.ucl.ac.uk> › ~jolly › SimonJollyCV

Prof. Simon Jolly – Curriculum Vitae

Leader of the UCL High Energy Physics Proton Beam Therapy group investigating novel detectors and diagnostics for quality assurance and imaging.

Charlotte Palmer

2011

Dr

Lecturer, **School of Mathematics and Physics**
Centre for Light-Matter Interaction (CLMI)



A/Prof

2010

Suzie Sheehy

Associate Professor in Medical Accelerator Physics
School of Physics

Dr Robert Apsimon Lancaster University

Senior Lecturer in Electronic Engineering



Matthew Streeter

Dr

Royal Society Univ Research Fellow, **School of Mathematics and Physics**
for Light-Matter Interaction (CLMI)
<https://orcid.org/0000-0001-9086-9831>

2013

prof. A. (Alexander) Gerbershagen 2013



university of
 groningen

Head of Particle Therapy Research Center (PARTREC),
Team Leader for Accelerator and Radiation Physics

Email



William Shields

- [Centre for Particle Physics and Astronomy](#)
- Lecturer in Accelerator Physics, [Department of Physics](#)

Dr Christopher Arran Lancaster University

Lecturer in Ultrafast Beams and Phenomena

2018



Graduate Destinations – Commerce / Industry

- Michael Davis
 - Alex Savin
 - Peter Tudor
 - Alex Lyapin
 - Talitha Bromwich
 - Rebecca Ramjiawan
 - Gavin Cheung
 - Theodoros Christodoulou
 - Gian Luigi D'Alessandro
 - Dan Harryman
 - Carlo Mussolini
 - Alexander von Boetticher
 - Muhammad Kasim
 - Aimee Ross
 - Cary Colgan
 - Jan-Nicolas Gruse
 - Jan Paszkiewicz
 - Kristian Poeder
- UBS
 - Patent lawyer
 - Metaboards Oxford
 - Oxford Quantum Circuits
 - Wild Business
 - Luffy AI
 - Sports analyst
 - Lab4Crypto (startup)
 - Unakin (AI startup)
 - Tokamak Energy
 - Fractile (startup)
 - Cogram (AI startup)
 - Living Optics (startup)
 - ASML
 - Tokamak Energy
 - D-Fine
 - Infleqtion UK
 - Mu-ray.tech

Graduate Accelerator Physics Course

Term I October-December 2025

Lectures (24)

Types of Accelerators*

Applications of Accelerators*

Live Connection – LHC Control Centre*

Transverse Optics (2)

Longitudinal Dynamics

Momentum Effects

Lattice Design

Hamiltonian Dynamics (2)

Beams & Imperfections

Basic Plasma Physics Concepts for Plasma Accelerators

Plasma-based Electron Acceleration

Plasma-based Ion Acceleration

RF Cavities (4)

Beam Diagnostics & Instrumentation

Synchrotron Radiation

Wigglers & Undulators

Radiation Damping & Excitation (2)

Parameters for *Muon Collider* RCS Student Project

Exercise Classes (6)

Introduction to Accelerators*

Transverse Dynamics

Longitudinal Dynamics

RF Cavities

Hamiltonian Dynamics

Synchrotron Radiation

** Combined Particle Physics & Accelerator Physics cohort*

Course carried out in hybrid format (in person & Zoom)

Visit to Diamond Light Source (or ISIS) at the beginning of academic year

Graduate Accelerator Physics Course

Term II January-March 2026

Lectures (22)

Magnet Design (2)

Non-linear Dynamics (2)

Beam-beam Effects

Space Charge Tune Shift

Injection, Beam Transport and Extraction

Linear Colliders (4)

Instabilities (2)

Beamlines for Fixed-target Experiments

Cyclotrons for Various Applications

Particle Sources

Free Electron Lasers

Vacuum and Surface Science

Accelerator Science & Particle Therapy

Introduction to Radiobiology & its Applications to Accelerator Science

Particle Accelerator Sustainability

Commercialisation of Accelerator Technologies

Exercise Classes (2)

Magnet Design

Introduction to *Muon Collider RCS*
Student Project

Tutorials (6)

Muon Collider RCS Student Project

JAI Seminar (1)

Muon Collider RCS Student Project

*Course carried out in hybrid format
(in person & Zoom)*

Graduate Accelerator Physics Course 2025-2026

- Number of Students
 - **University of Oxford**
 - JAI Accelerator Physics (2)
 - Atomic & Laser Physics (Plasma Physics, 1)
 - Particle Physics* (10) - Only first three lectures, first tutorial & DLS visit in Term I
 - **Royal Holloway, University of London (1)**
 - **Imperial College London (2)**

 - One UCL student audited lectures
-

Accelerator Design Project

- Accelerator Design Study for
 - **FCC-ee Positron Damping Ring:** 2022-2023
 - **LhARA Stage I:** 2023-2024
 - **HALHF:** 2024-2025
 - Design work consisted of study of the lattice, magnet systems and RF cavities.

“The design project significantly contributes to the value of a PhD at the JAI and is a very effective learning tool ... it played an essential role in helping me to find a postdoc.”

“To me, the design project was by far the best part of the course. It puts the material taught into context and bridges the gap between lectures ... and a DPhil project”



2024-2025: HALHF

Design Report to be published on CDS and students delivered JAI Seminar (March 2025) and visit to CERN (July 2025)

2025-2026: Muon Collider RCS

Design Report to be published on CDS and students delivered JAI Seminar on 12 March 2026; Visit to CERN planned for 3 July 2026

Consolidated Accelerator Course

- Graduate lecture course includes **plasma research training**.
 - Lectures provided by ICL, as part of development of **integrated accelerator-laser-plasma training**,
 - Training in '**Centre for Postgraduate Training in Plasma Physics & High Energy Density Science**' – established in 2014 by ICL, Oxford, and Warwick.
 - **Plasma-related** lecture courses also provided in Oxford.
- Graduate students take **additional courses in related subjects** – statistics, EM, safety, particle physics and astrophysics.
- Universities offer **courses on transferable skills** – Research Management, Critical Thinking, Personal Effectiveness, Research Skills & Techniques, Written & Oral Communication, Team Working, Career Development, Entrepreneurship, Ethics, and Advanced IT.
- **Lecturers & Instructors**
 - J. Bauche (CERN), M. Dosanjh (Oxford), M. Fraser (CERN), H. Garcia-Morales (CERN/Oxford), A. Gerbershagen (Groningen/Oxford), D. Kelliher (RAL), B. Kyle (RAL), S. Mangles (ICL), I. Martin (Diamond/Oxford), Z. Najmudin (ICL), S. Patel (RAL), C. Plostinar (ESS), D. Posthuma de Boer (RAL), M. Schippers (PSI), P. Tait (Oxford), **O. Tarvainen (RAL)**, F. Tecker (CERN), E. Tsesmelis (CERN/Oxford), H. Wakeling (Oxford), Rob Williamson (RAL)
 - Lecturers / instructors from **JAI universities** and from external institutes – **CERN, Uni. Groningen, DIAMOND, ESS, PSI, RAL.**

JAI Student Resources

- **Student Handbook** provides information to the students of the training programme in accelerator science at JAI.
 - Syllabus & course content, course resources, assessment, evaluation, recommended textbooks.
 - Supplementary information (public engagement, lecture series, summer student programme etc.)
- Dedicated site on **INDICO**
 - <https://indico.cern.ch/category/5869/>
 - Timetable, slides / documents, Zoom connection

John Adams Institute for Accelerator Science

Education & Training in Accelerator Science

Student Handbook
and Programme Syllabus

2025-2026

September 2025



John Adams Institute for Accelerator Science - Accelerator Physics Courses

The John Adams Institute for Accelerator Science (JAI) is a centre of excellence in the UK for advanced and novel accelerator technology, providing expertise, research, development and training in accelerator techniques, and promoting advanced accelerator applications in science and society. The JAI programme is organised around three pillars: research in accelerator science; training the next generation of accelerator scientists; and science outreach to industry and the public. The JAI is jointly hosted by the physics departments of the University of Oxford, Royal Holloway, University of London and Imperial College London.

As part of its training programme, the JAI provides courses in Accelerator Physics and related disciplines. Details of the courses are provided in the JAI Student Handbook 2025-2026.

January 2026

 22 Jan - 12 Mar [Hilary Term 2026](#)

October 2025

 16 Oct - 04 Dec [Michaelmas Term 2025](#)

January 2025

 23 Jan - 21 Mar [Hilary Term 2025](#)

October 2024

 16 Oct - 05 Dec [Michaelmas Term 2024](#)

Graduate Student Funding

- JAI is included in **STFC quota** PhD studentships scheme
 - **Prior to 2026**, JAI received **three studentships per year** (exceptionally four in 2024).
 - For **2026**, this has been reduced to **two studentships**.

- This **leverages additional funding sources** allowing JAI to recruit a few additional PhD students / year.
 - **Various funding sources** include most recently JAI universities + grant, the Royal Society, EPSRC Industrial CASE & Centres for Doctoral Training, the CERN Doctoral Student programme, ISIS, Diamond Light Source, the Ada Lovelace Centre, and the Central Laser Facility.
 - Successful in collaborating with external universities through **cooperation agreements**, such as University of Oxford with Humboldt University, Berlin, whose students have attended the JAI course, and other non-UK sources. Discussing with Humboldt University to re-launch collaboration.

Continue to explore wide range of possibilities for sustainable funding.

JAI / CERN Doctoral Students

2010:

Alex Gerbershagen

2012:

Davide Gamba

Jack Roberts

2015:

Swann Levasseur

2016:

Chetan Gohil

Pierre Korysko

Jan Paszkiewicz

2017:

Eugenio Senes

2018:

Gian Luigi D'Alessandro

Luke Dyks

2019:

Daniele Butti

Helene Guerin

Carlo Mussolini

2020:

Robert Murphy

Pablo Arutia Sota

Rebecca Taylor

2021:

Florian Stummer

2022:

Sasha Horney

Emily Howling

Vlad Musat

Jack Salvesen

2024:

Lewis Kennedy

Giusy Passarelli

2026:

Federica Murgia

**24 Doctoral
Students**

Imperial College
London



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON



UNIVERSITY OF
OXFORD

New Graduate Students 2026-2027 Academic Year

■ Oxford

- Federica Murgia: Beam physics models for CERN accelerator complex (P. Burrows); CERN Doctoral Studentship + JAI Grant + Physics Dept. funding
- Robert Simpson: Intense hadron beams (A. Oeftiger); ISIS + GSI + Particle Physics funding
- Markus Soerqvist: Beam-driven WFA (R. D'Arcy); STFC + EU + Particle Physics funding

■ ICL

- N.N.

■ RHUL

- Recruiting to one studentship; 2/3 STFC funding.

Process for graduate student selection on-going at JAI universities

Matching funding and international fee waivers to support non-UK applicants for CERN Doctoral posts are increasingly difficult to obtain from UK universities.

Number of JAI Incoming 1st-Year Graduate Students

Academic Year	Number of Students
2026-2027	OXF (3), RHUL (1), ICL(?)
2025-2026	6
2024-2025	9
2023-2024	10
2022-2023	13
2021-2022	7
2020-2021	7
2019-2020	9
2018-2019	7
2017-2018	7
2016-2017	7

Students that have **completed the full first-year graduate course** (including the student design project)

2022-2023 & 2023-2024 were **exceptional years** due to successful funding from sources beyond STFC quota.

Undergraduate Accelerator Physics Courses

■ RHUL

- Short option course (12hr) for 3rd year students.
- Annual intercollegiate course for 4th year MSc students from the University of London and as well as BSc/MSc project students.

■ University of Oxford

- Undergraduate course was revised and becomes available as of 2025-2026 academic year.
 - ‘Short option’ in Year 3, consisting of 12 lectures (6 detectors and 6 accelerators).
- 4th year undergraduate projects undertaken annually (e.g. plasma accelerators, medical accelerators).

Expect programmes to attract undergraduate students to accelerator science.

Undergraduate Accelerator Physics Summer Student Internships

- Oxford University
 - Internship Programme (CERN in July/August annually; **around 25 students** have joined programme since its launch in 2014).
 - **Two students** to join **CLEAR** accelerator project supervised by Oxford faculty & graduate students in 2026.
 - Participate in **CERN Summer Student** lecture series & in accelerator project.
 - Sub-department of Particle Physics Internship Programme

- Imperial College
 - Around **4 students** appointed annually.
 - Spend 8 weeks working at **Imperial College & RAL**.

- RHUL
 - Around **2 students** appointed annually.
 - Carry out research work at **RHUL**.

Expect programmes to attract undergraduate students to accelerator science.

UK Accelerator Institutes Seminar Series

- JAI, together with ASTeC and the Cockcroft Institute, organise jointly the **UK Accelerator Institutes Seminar Series**
<https://indico.cern.ch/category/13863/>
 - Delivered by distinguished speakers from the participating institutes and from laboratories / universities world-wide.
- Seminars held in person and via videoconference and scheduled so that the graduate student body can attend.

Latest Session in January – March 2026

Title	Speaker
Muon Collider Progress and Plans	Daniel Schulte (CERN)
British Cryogenic Council Prize Talk – From Bulk Niobium to Thin Films: Advancing SRF with High Throughput Cryogenic RF Characterisation	Daniel Seal (Lancaster University)
LUXE: A New Experiment to Study Non-perturbative QED and Search for New Particles in Electron-Laser and Photon-Laser Collisions	Mathew Wing (UCL and DESY)
Upgrade of the CMS Experiments for HL-LHC	Anne Dabrowski (CERN)
A 100 Hz, 10 TW Laser Facility at QUB for Fundamental Science and Applications	Gianluca Sarri (Queen’s University Belfast)

External Training Commitments (Abridged)

- JAI academic staff invited to provide training & to contribute to various international forums:
 - EU Integrating Activity Projects on Training, Communications & Outreach in Accelerators – TIARA 2011-2014, ARIES 2017-2021, I.FAST 2021-2025 (P. Burrows serves as WP Leader). Will coordinate new European panel on education & training in accelerator science – EPITA.
 - TIARA - Chair of Task Force on Training in Accelerator Science for Europe (P. Burrows).
 - CERN Accelerator School CAS (various JAI faculty and staff, P. Burrows serves on CAS AB).
 - Joint Universities Accelerator School (JAI is partner institute, P. Burrows serves on JUAS AB).
 - US Particle Accelerator School (USPAS, various JAI faculty and staff).
 - Cockcroft Institute graduate accelerator physics course (S. Gibson).
 - University of London intercollegiate undergraduate & graduate accelerator physics courses (S. Gibson, P. Karataev).
 - University of Melbourne Medical Accelerator Physics Programme (S. Sheehy).
 - Nanyang Technological University undergraduate lectures on accelerator physics (E. Tsesmelis).
 - Culham Summer School on Plasma Physics - Laser Wakefield Accelerators (S. Mangles)
 - EuPRAXIA-DN School on Plasma Accelerators, Introduction to Plasma Diagnostics, (Z. Najmudin)
 - Winter School on Intense Laser Science WiSILS 2024), Indian Institute of Technology (Z. Najmudin)
-
- Public IOP Evening Lecture on Sustainable Accelerators (H. Wakeling)
 - Public lecture on STELLA at the Pontifical Academy of Sciences in Vatican (M. Dosanjh)

Future Programme - Training

Proposal & plan for the future education & training programme at JAI:

- Continue to **deliver an outstanding training programme** both within JAI and via our contributions to CAS, JUAS and other schools.
- Consolidate, strengthen and augment our programme by:
 - further **integrating lectures and seminars** across our three universities;
 - augmenting focus on **sustainability** in accelerator design and construction;
 - strengthening focus on **commercialisation and impact**;
 - linking to dedicated **training in AI/ML techniques** provided via our universities.
- Continue to promote a pipeline of graduate students via our **undergraduate portfolio** of courses, summer internship programmes and research projects.
- Aim to strengthen our collaboration on training with the **CI on advanced topics** and to continue support of the **UK Accelerator Institutes Seminar Series**.
- Continue to support student participation in relevant specialised **external training** courses (e.g. Advanced CAS) and presentation of their research work at **international conferences and workshops**.

PUBLIC ENGAGEMENT

Introduction

- JAI continues to develop its high-profile, in-person public engagement in post-Covid environment.
- Covid pandemic devastated in-person events, throwing them into online events.
- In-person events have reached pre-pandemic levels.

Public Engagement & Schools

- **Accelerator and Particle Physics Education at A-Level (APPEAL)**
 - Regular training since 2010
- APPEAL-11 2025: ***Accelerators for Particle Therapy in Medicine***



APPEAL-11 in 2025 at Oxford

Consisted of **lectures** and **MasterClass**

- **Outreach in Schools**

‘Particle Accelerators: from Higgs Bosons to Curing Cancer’ for Visiting Students from China & at University of the Third Age (P. Burrows; 1200 attended).

‘Einstein’s Universe’ at Marlborough College (B. Foster; 300 attended)



Public Engagement & Students

Make Science Count

Communicating Science in a complex environment

Hector Garcia Morales
Physics PhD and Science Communicator/Writer



Pilot initiative by
Suzie Sheehy & Hector Garcia Morales

Next session planned for **July 2026 at CERN**

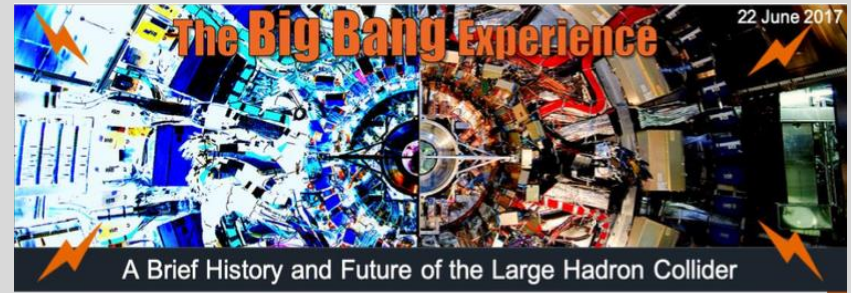
Science Communication Lectures & Workshops for JAI DPhil Students

Underlined the importance of:

- ❑ **Communication skills** are essential.
- ❑ Use of Elements of **Storytelling**.
- ❑ Engage with **different audiences**.
- ❑ **Writing** is special.
- ❑ **Trust, ethics and uncertainty** in scientific narratives.

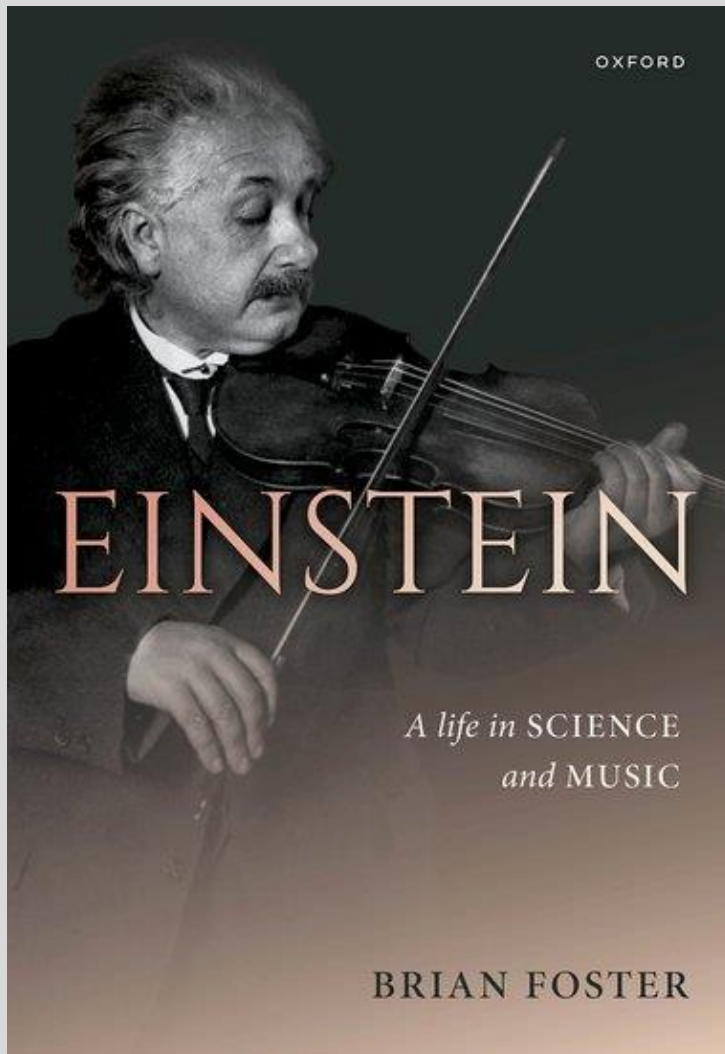
Public Engagement & The Big Bang Experience!

- Brief history and future of the LHC revealing wonders of the LHC at CERN and how it is unravelling mysteries of the universe.
- Big Bang Experience at **British Science Week** (March 2025)



S. Gibson (RHUL)

Public Engagement & Literature



Einstein: A Life in Science and Music by Brian Foster

Comprehensive survey of Einstein's contributions to physics.

Public Engagement & Festivals

Great Exhibition Road Festival
(June 2025)

- Hugely successful event
- 700+ visitors over 2 days

Imperial-CNRS event

- Visit by French President Emmanuel Macron



LhARA will exhibit at the Royal Society, June/July 2026

Summer Science Exhibition 2026



8-9 June 2025 at Imperial

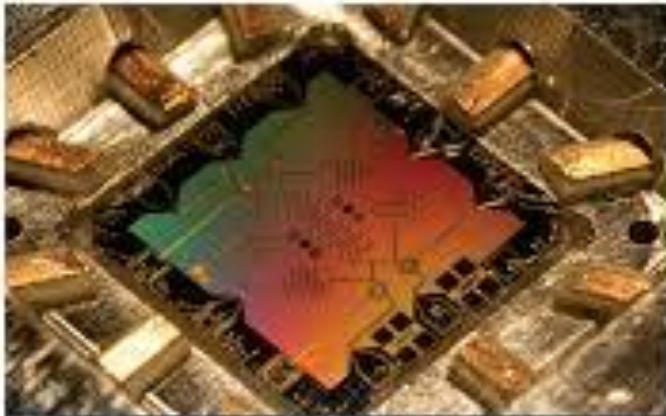


9 July 2025 at Imperial

OXFORD
MAY MUSIC

May 2025 (16th season) – B. Foster
4-day event with attendance of around 900.

Public Engagement & Festivals



Resistance is Futile: The Rise of Superconductors

Department of Physics

Dr Andrew Casey

Superconductivity was discovered over a hundred years ago. The property of a superconductor to carry electrical current without loss due to resistance captured the imagination of scientists and artists who predicted various visions in which superconductors would revolutionise our lives. In this talk Dr Casey will ask whether or not these predictions have been realised and show that understanding the quantum nature of superconductivity has led to the development of the world's most sensitive detectors. The talk will be accompanied by some practical demonstrations of the properties of superconductors.

Science for Schools Lecture Series



Wenton Building



5.30 PM
20 November 2025



All welcome, admission free

The lecture will be provided by a reception and exhibition

For more information
www.rhul.ac.uk



ROYAL HOLLOWAY
UNIVERSITY

Resistance is Futile: The Rise of Superconductors (Including Accelerators)

Recurring, popular live physics demonstration and lecture topic, covering the fundamental properties of superconductors and showcases their "rise" from scientific curiosities to critical technological components.

At British Science Week and at RHUL Science Festival (S. Gibson and A. Casey, March 2026)

Public Engagement & International Forums

Accelerator Engagement Ambassadors Initiative (IUPAP WG14)

The Accelerator Engagement Ambassadors Initiative invites passionate early- and mid-career researchers to help **bring the world of particle accelerators closer to society.**

The programme empowers volunteer ambassadors to design and deliver creative public-facing activities that highlight the **impact of accelerator science.**



Hannah Wakeling & Suzie Sheehy are involved in this initiative

Created LinkedIn community for those interested in public engagement around accelerators.

Public Engagement & Medicine



SAPPHIRE Accelerator Training Workshop in Accra, 13-16 April 2026

Proposal and Plan for Future

- JAI continues to be **leader in communicating accelerators & associated physics.**
- Activities for future include:
 - **Training days for teachers** (APPEAL – Accelerator and Particle Physics at A-Level) for science teachers.
 - Long-standing **schools programmes** – ‘Particle Accelerators: from Higgs Bosons to Curing Cancer’, ‘Einstein’s Universe’ and ‘Big Bang Experience’.
 - **High-profile collaborative public engagement** attracting new audience to science – Resistance is Futile, Accelerator Engagement Ambassadors Initiative

Summary

- JAI continues to deliver **world-class** accelerator science **education & training** and **public engagement** programmes.
 - Intense **accelerator physics course**.
 - Innovative and **educational accelerator design projects**.
 - **Successful placement of students** once they enter professional careers.
 - **Recognised and award-winning public engagement** activities with global reach - continue strengthening existing portfolio and encourage new & innovative ideas.