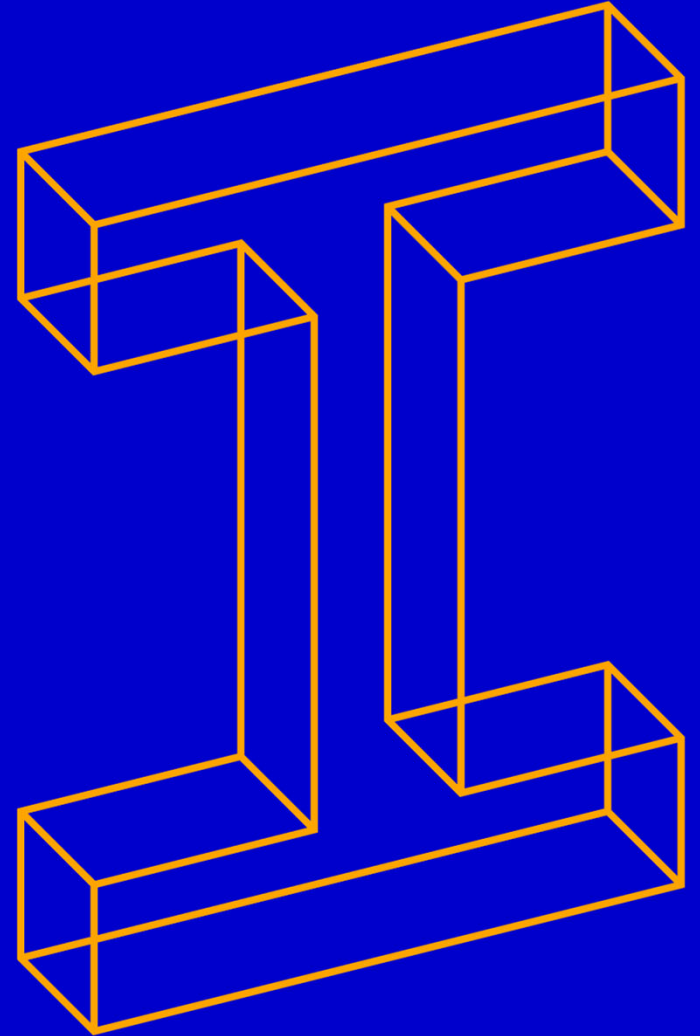


IMPERIAL

Undergraduate Virtual Open Days 2026

Department of Physics

16 July





Virtual Open Days - Housekeeping

Schedule

The event is scheduled to last for 60 minutes, with presentations from the department, followed by a live interactive Q&A.

Q&A

You can ask questions via Teams throughout the event. We will publish relevant ones and answer as many as possible either in chat or the live Q&A. If watching the recording, please email questions to opendays@imperial.ac.uk

Event Recording

The event is being recorded and will be available to watch on our on-demand talks pages shortly after the event series has ended.

How else can I find out more?

These are just some of the ways to explore further about what it is like to study at Imperial:



On-demand online
talks and tasters

01

Chat with current
students on
Unibuddy

02

Take a virtual tour
of our facilities

03

Visit us in South
Kensington

04



See when Imperial
may be coming to
an event near you

05



IMPERIAL

1st
in the UK + Europe

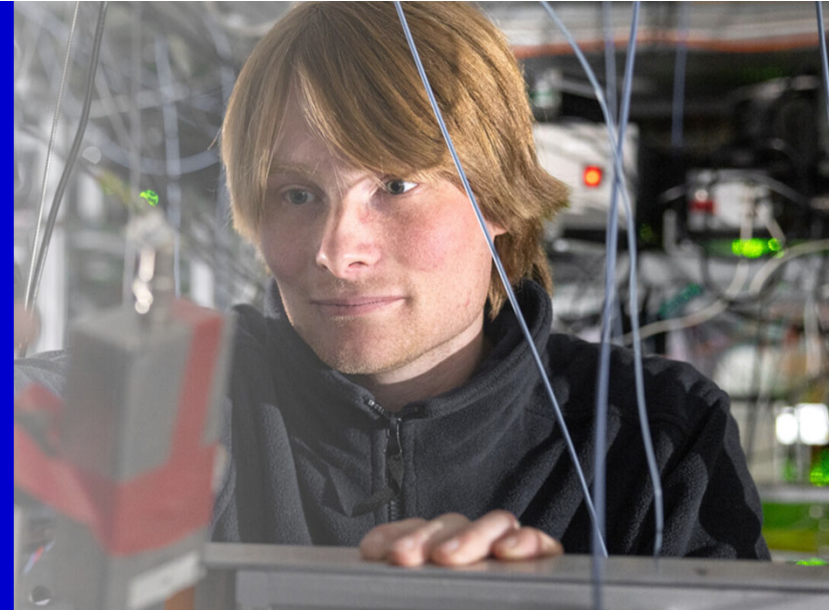
2nd
in the World

QS World University
Rankings 2027



Physics for Humanity

Our mission is to
learn and teach about the universe
and how light and matter behave
through space and time,
using our knowledge to solve
problems and advance technology



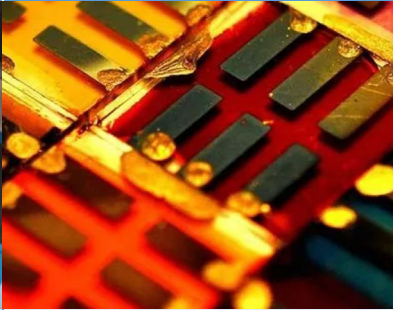
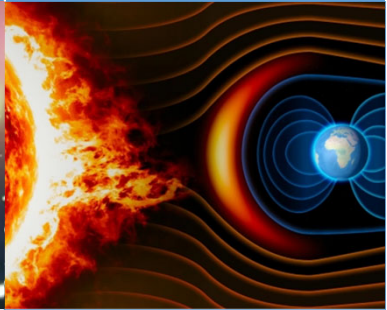
We are one of the largest Physics departments in the world

- 800 Undergraduate students
- 124 Academic staff
- 500 Masters students
- 285 PhD students
- 245 Professional and research staff
- PhySoc is the largest student society at Imperial



Society for Women & Non-Binary Individuals in Physics

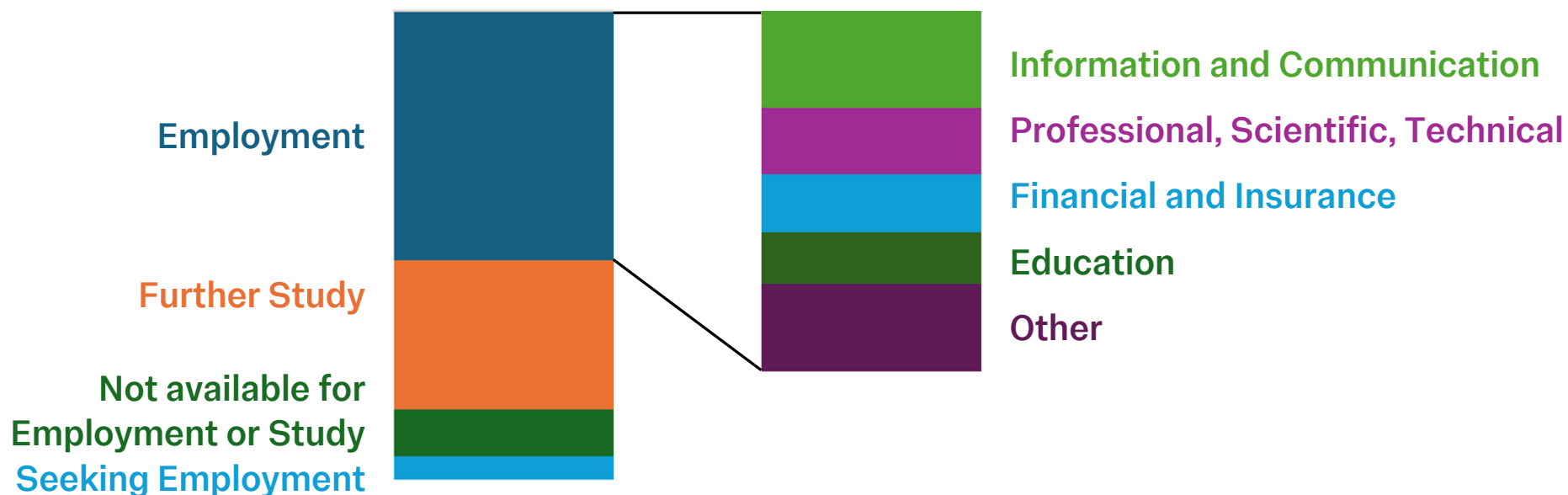
We conduct research in and teach on a broad range of topics

Light	Matter	Particles	Universe	Space, Plasma and Climate
				
Optics Photonics Laser Science Quantum Optics Medical Imaging	Renewable Energy Nanotechnology Quantum Computing Soft Electronics	Particle Searches New Forces Accelerator & Detector Design Nuclear Medicine	Astrophysics Dark Matter Cosmology String theory Quantum theory	Planetary and Solar Physics Space Plasmas Fusion Energy Climate Change

Our graduates have bright futures

Destinations of Physics Graduates

Sector of Employment



No. 1 in UK for graduate prospects
The Guardian University Guide

**The
Guardian**

University of the Year for graduate employment
The Times Good University Guide

THE  **TIMES**

What do Imperial Physics graduates do?

**Python
developer**

Consultant

**Quant
developer
intern**

**Trainee
patent
attorney**

Geophysicist

**Data
scientist**

**Aerospace
systems
engineer**

**Machine
Learning
Researcher**

**Business
analyst**

**Cloud
DevOps
Engineer**

Teacher

**Physicists are
problem solvers!**

Physics graduate roles, 2023

Notable People of Imperial Physics

Nobel Prize Winners:

George Thomson

1937, electron as wave

Patrick Blackett

1948, cloud chamber

Dennis Gabor

1971, holography

Abdus Salam

1979, electroweak unification

Peter Higgs

2013, Higgs boson



**Dame
Maggie
Aderin**
Scientist and
presenter



Nicola Fox
NASA head of
science



**Terry
Rudolph**
Co-Founder,
PsiQuantum



**Michele
Dougherty**
Astronomer
Royal





Lucas came from
London to Imperial
Physics

He's now doing his
PhD on the Higgs
Boson at CERN



Shreyas came from
London to Imperial
Physics

He's now an analyst
at JP Morgan
Private Bank



Ying Yan came
from Malaysia to
Imperial Physics

She's now a trainee
in medical physics
with the NHS

Our courses

3 year courses

BSc Physics

BSc Physics with Theoretical Physics

4 year courses

MSci Physics

MSci Physics with Theoretical Physics

MSci Physics with a Year Abroad

You can switch between courses up to Year 3



MSci Physics with Year Abroad

Undertake year 3 at a partner university

France University of Paris-Saclay or Institut Polytechnique de Grenoble

Germany Universität Heidelberg

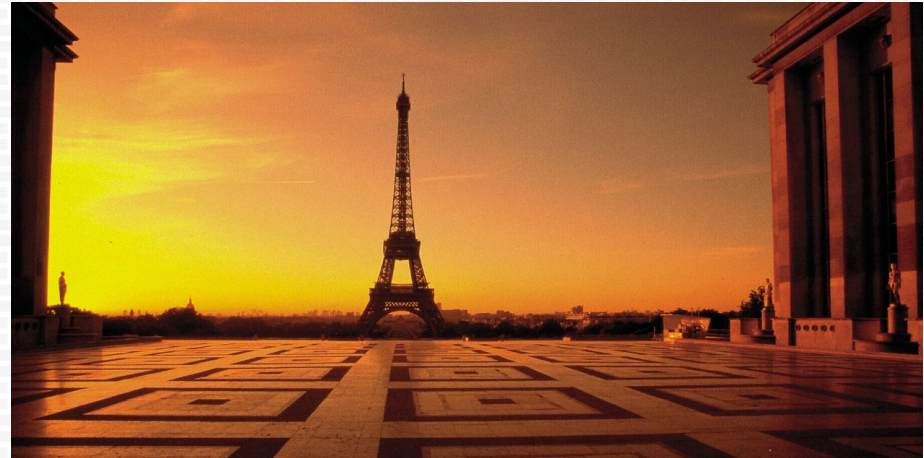
Italy Università degli Studi di Padova

Netherlands University of Utrecht

Spain Universidad Autonoma de Madrid, Universitat de Valencia or Universidad de La Laguna

Switzerland École Polytechnique Fédérale de Lausanne

USA Massachusetts Institute of Technology



Our Curriculum

	BSc Physics	MSci Physics	BSc Theory	MSci Theory	MSci Year Abroad
Year 1	Core Physics: Vector Fields, Electricity and Magnetism; Mechanics and Relativity; Oscillations and Waves; Statistics & Summer Project; Laboratory & Computing				
	Maths Analysis or Advanced Electronics				Language
Year 2	Core Physics: Thermal Physics and Structure of Matter; Differential Equations and Electromagnetism; Quantum Physics; Laboratory & Computing				
	I-Explore				Language
	2 electives		Maths Methods		2 electives
			1 elective		
Year 3	Core Physics: Nuclear and Particle Physics; Solid State Physics; Comprehensives				Year Abroad:
	Laboratory project		Independent project		Research Project
	4-5 electives		4-5 electives		Electives
Year 4		Professional Skills		Professional Skills	Year 3 Core
		Research Project		Research Project	4-5 electives
		4-5 electives		4-5 electives	

We have a wide range of electives

Year 1

Mathematical Analysis
Advanced Electronics

Year 2

Environmental Physics
Sun, Stars and Planets
Mathematical Methods (T)
Communicating Physics
I-Explore

Year 3

Advanced Classical Physics (T)
Astrophysics (T)
Computational Physics (T)
Data Science and Machine Learning
Foundations of Quantum Mechanics (T)
Group Theory (T)
Lasers
Medical Imaging and Radiotherapy
Plasma Physics
Principles of Instrumentation
Statistical Mechanics (T)

Year 4

Advanced Particle Physics (T)
Atmospheric Physics
Concepts in Device Physics
Cosmology
General Relativity (T)
Hydrodynamics
Information Theory
Laser Technology
Nanotechnology
Optical Communications Physics
Quantum Field Theory (T)
Quantum Information (T)
Quantum Optics
Quantum Theory of Matter (T)
Space Physics
Unification - the Standard Model (T)

(T) : Theoretical module
Course offering may change



I-Explore: broaden your knowledge and tackle a new subject area

Dozens of modules to choose from, for example:

Science:

AI and Robotics
Climate Change

Business School:

Economics
Entrepreneurship

Humanities & Social Sciences:

Creative Writing
Psychology

Languages

Multidisciplinary project



A typical week as a 1st year Physics student has

lectures, **interactive teaching** and **optional activities**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Lab	Computing Lab	Functions	Lab Data Analysis	Seminar
10-11			Mechanics		
11-12			Week Ahead		Professional Skills
12-1			Research Frontiers		Year Abroad Language Classes
1-2			Reserved for sports and clubs		
2-3	Academic Tutorial	Complex Analysis			Computing
3-4		Functions		Personal Tutorial	Mechanics
4-5		Horizons		Vectors & Matrices	
5-6	Complex Analysis			Mechanics	

Academic tutorials



Fortnightly tutorials with 5 students and a staff member on course material through years 1-3

Seminars



Weekly tutorials with staff members and teaching assistants for 60 students working in teams of 5 through years 1-2

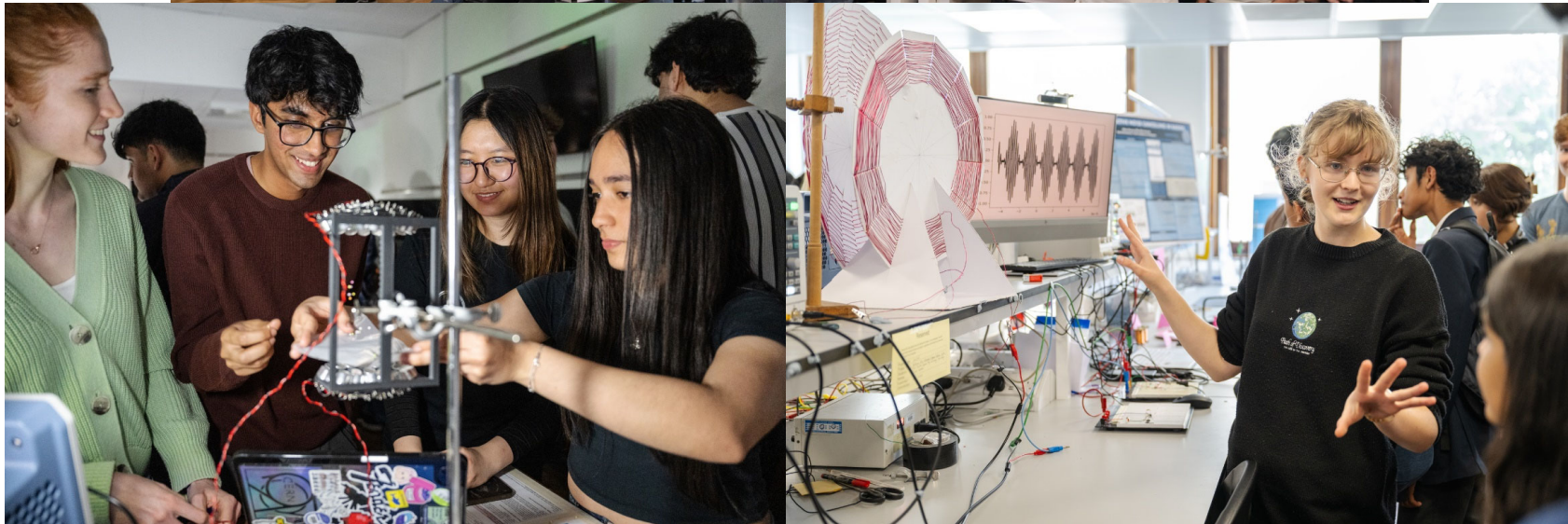
We have an entire floor dedicated to teaching labs and a large computing lab



<https://www.youtube.com/watch?v=oDnrCtjqRmA&t=78s>



Our teaching is based on the world-class research we do



Original student research starts with the Year 1 Project

Year 1 Summer Project: **Can Light Reveal What's in Wine?**





Fay Dowker

Professor of
Theoretical
Physics

Researching
causal set
theory to unify
physics

Teaches
Quantum
Physics in Year
2 and
supervises
MSci projects

Chris Phillips

Professor of Experimental
Solid State Physics

Researching Quantum
Optical Effects in
Nanostructures

Leading spinout company
for novel medical imaging
for detecting cancer

Teaches Opto-Electronic
Devices as Year 3/4
elective and supervises
MSci projects





Helen Brindley

Professor of
Climate Physics

Developing
instrumentation to
measure Earth's
radiation from
ground, aircraft
and satellite

Teaches
Atmospheric
Physics as Year
3/4 elective and
supervises MSci
projects

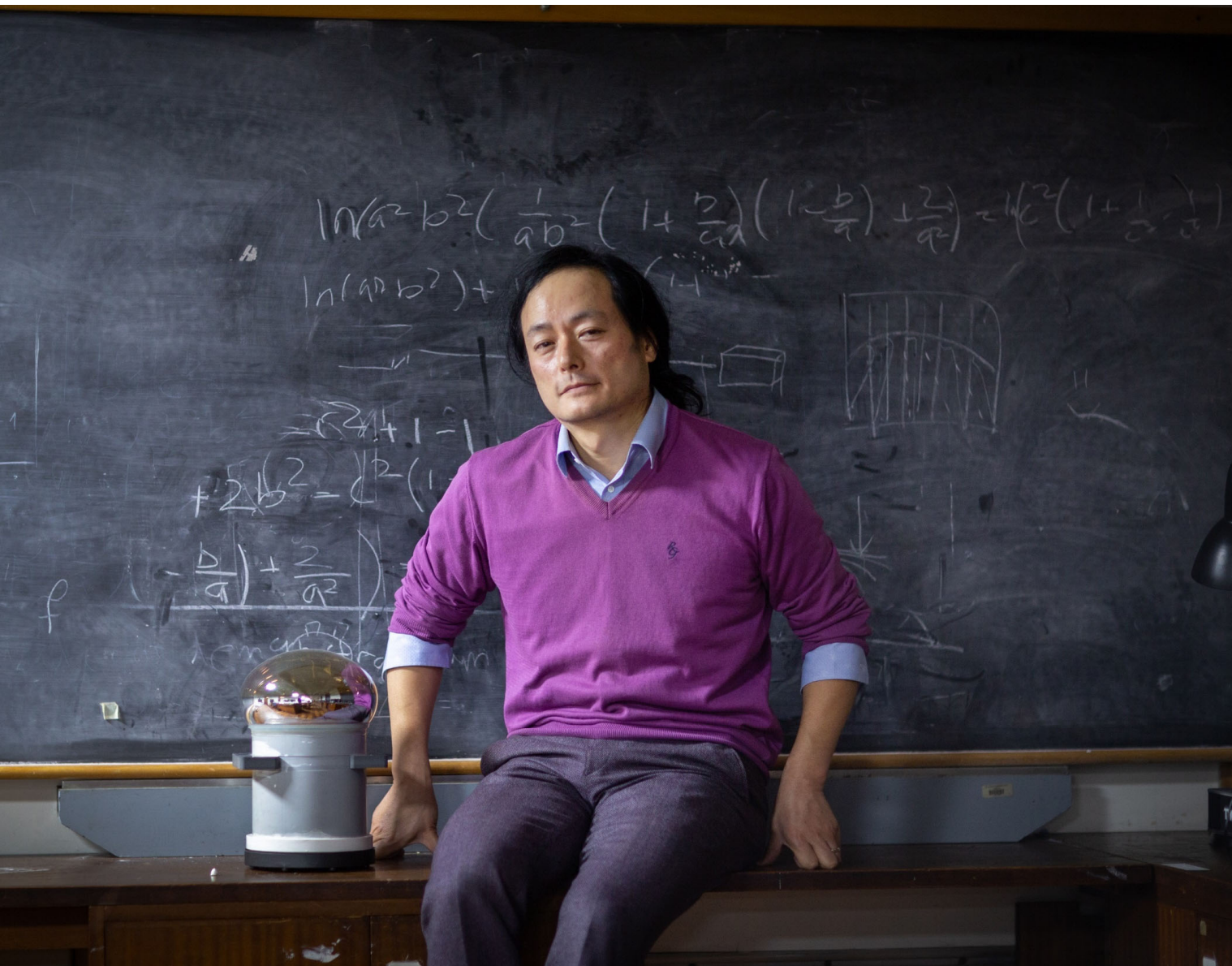
Steve Kolthammer

Associate Professor of
Physics

Researching Quantum
Computing and
Information

Serves as Head of Year 2,
teaches Quantum Physics,
and supervises MSci
projects





Yoshi Uchida

Professor of
Particle Physics

Researching muon
and neutrino
physics with novel
experiments

Leads 1st Year
laboratory and
supervises MSci
projects

Student welfare and wellbeing

Personal Tutor meets students through all 3 or 4 years about their studies, interests, and careers

Professional support team to help with special circumstances, disabilities or any issue students need help with

Student-to-student support from Physics Helpdesk and big brothers and big sisters

Imperial provides health centre, counselling, sports facilities, chaplaincy, careers service, and more



Apply with UCAS for undergraduate courses in Physics at Imperial

UCAS
www.ucas.com

Deadline 13 January 2027

3 Year courses

BSc Physics or BSc Physics with Theoretical Physics

4 Year courses

MSci Physics or MSci Physics with Theoretical Physics

MSci Physics with Year Abroad

to USA or Netherlands:

- Apply directly to any Physics course
- Switch in year 2

to France, Germany, Italy, Spain, or Switzerland:

- Apply directly to MSci Physics with Year Abroad
- GCSE grade 6 in the relevant language required

Selection process

We take into consideration your:

- **Grades:** past and predicted
- **School reference**
- **Personal statement**
- **ESAT admissions test**

There are no interviews for undergraduate physics courses



Minimum entry requirements

A-level

A*A*A in three full A Levels (excluding General Studies, Critical Thinking), to include:

A* in Mathematics

A* in Physics

A in another subject

International Baccalaureate and other international qualifications accepted

English Language:

GCSE at grade 6, IELTS at 7.0 overall (6.5 in each element), or other equivalent

Engineering and Science Admissions Test (ESAT)

The ESAT is a multiple-choice computer-based assessment which tests mathematical and science thinking, along with reasoning skills.

It is made up of multiple 40-minute, 27 question assessments which run back-to-back on the test day.

For Physics at Imperial, you need to sit:

Physics

Maths 1

Maths 2

Book the test online and sit it at a local Pearson VUE test centre.

For 2027 entry,
the test sittings are:

12-16 October 2026

4-8 January 2027

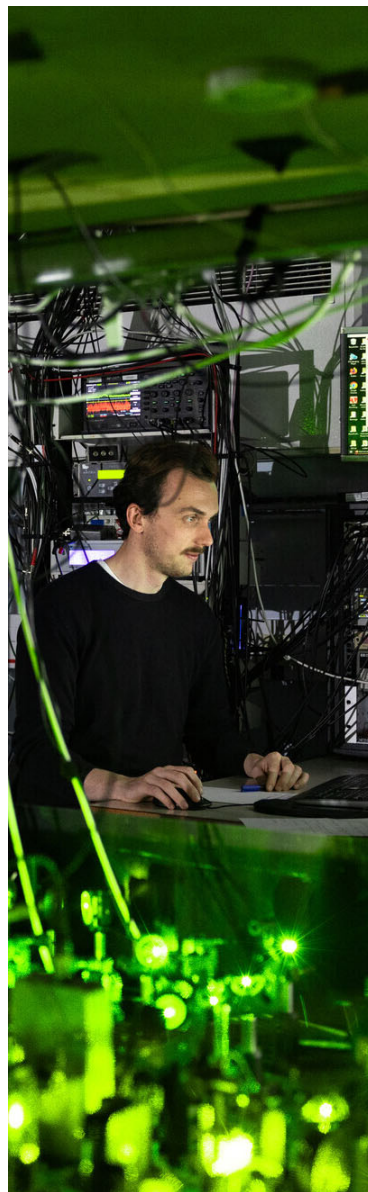


You can only sit the test once for 2027 entry

Bursaries available to cover the full cost. Apply for the bursary **before you book your test.**

We welcome applicants from disadvantaged or underrepresented backgrounds

Guaranteed offers to Home applicants who satisfy the **Widening Participation criteria** (see Study Guide), have predicted grades that meet the minimum College entry standard, demonstrate motivation to study Physics, and score above minimum threshold in ESAT.



Imperial Bursary

One of the most generous bursaries of its kind in the UK

Who is it for?

All UK undergraduate students who meet the income criteria and who are eligible for UK government funding.

Do you have to pay it back?

No

How to qualify?

You qualify automatically if your annual household income is **under £70,000**.

How much?

Up to **£5,000 per year** towards living costs.

imperial.ac.uk/imperial-bursary

Search our scholarships:

imperial.ac.uk/study/fees-and-funding/scholarships-search

Thank you for visiting Imperial Physics!



imperial.ac.uk/physics/students/undergraduate-admissions/

UCAS website:
www.ucas.com

Undergraduate Study Guide:
imperial.ac.uk/study/ug

Questions? Email
ph.admissions@imperial.ac.uk

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