

Imperial College  
London

# Welcome to our master's students

Department of Physics

Professor Toby Wiseman, Director of Postgraduate Taught Studies

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# Welcome to our master's students

Professor Stefan Soldner-Rembold  
Head of Department



Professor Carlo Contaldi  
Deputy Head of Department (Education)



## Overview of the Department

### People (approx numbers)

- 100 Academic staff
- 150 Research staff
- 900 Undergraduate students
- 200 Masters students
- 330 Research students

### Research arranged in 5 Communities

- Light (Photon Science)
- Matter (Condensed Matter Physics)
- Particles (Particle Physics)
- Natural Environment (Space, Plasma and Climate)
- Universe (Astrophysics, Theoretical)

Annual research spend > £26M

## A few words from me...

- We hope this will be an exciting year, and you will fully engage with your course and your class.
  - It will be challenging and very rewarding – you are at the transition from learning known things to discovering new things!
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## Plan

- We will meet your master's course directors
  - Then we'll meet the PG senior tutor (Dr Bob Forsyth)
  - We'll hear from course reps, the ICU and WiP
  - Then some important departmental information from me
  - Finally some slides from other organizations in Imperial
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## Key Staff



**Prof Toby Wiseman**  
Director of Postgraduate  
taught studies



**Dr Bob Forsyth**  
Postgraduate Senior  
Tutor



**Bex Chrystall, Callum Gray and Loli Sanchez Rey**  
Postgraduate Support Office  
Blackett Level 3



**Derryck Stewart**  
Education Manager

[ph.pgt-tutor@imperial.ac.uk](mailto:ph.pgt-tutor@imperial.ac.uk)

[ph-pgt@imperial.ac.uk](mailto:ph-pgt@imperial.ac.uk)

## Programme Directors



**Prof Stephen Warren**  
MSc Physics,  
MSc Physics with  
Extended Research



**Prof Ben Sauer**  
MSc Physics with  
Quantum Dynamics (QD)



**Prof Chris Dunsby and Mark Neil**  
MSc Optics & Photonics (O&P)  
MRes Photonics

## Programme Directors



**Prof Andrew Tolley**  
MSc Quantum Fields  
and Fundamental  
Forces (QFFF)



**Prof David Colling  
and Dr Nick Wardle**  
MRes Machine  
Learning and Big Data  
(MLBD)



**Prof Ji-Seon Kim**  
MRes Soft  
Electronic  
Materials (SEM)



**Dr Bill Proud**  
MSc Security and  
Resilience: Science  
and Technology  
(SRST)





**Masters Student Social – ALL WELCOME!!!**  
4-6pm on Thursday 10<sup>th</sup> October on the level 2 foyers of Blackett

## Programme-specific inductions

MSc Physics (all streams)	11:00-13:00 Tuesday (1 <sup>st</sup> Oct), Blackett LT3
MRes SEM	16:00-17:30 Tuesday (1 <sup>st</sup> Oct), Blackett 741
MSc Optics & Photonics	10:00-12:00 Wednesday (2 <sup>nd</sup> Oct), Blackett 630
MRes MLBD	10:00-12:00 Wednesday (2 <sup>nd</sup> Oct), Blackett 741
MSc SRST	13:00-14:00 Next Monday (7 <sup>th</sup> Oct), Blackett LT2
MSc QFFF	12:00-13:00 Wednesday (2 <sup>nd</sup> Oct), Huxley 503

# Welcome from...

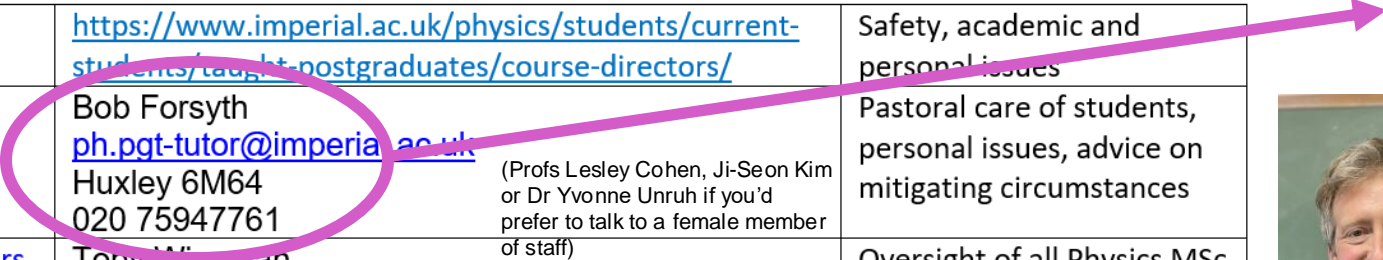
Dr Bob Forsyth

Postgraduate Senior Tutor

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## PG welfare in Physics: MSc & MRes

Programme directors	<a href="https://www.imperial.ac.uk/physics/students/current-students/taught-postgraduates/course-directors/">https://www.imperial.ac.uk/physics/students/current-students/taught-postgraduates/course-directors/</a>	Safety, academic and personal issues
PGT Senior Tutor	<p>Bob Forsyth  <a href="mailto:ph.pgt-tutor@imperial.ac.uk">ph.pgt-tutor@imperial.ac.uk</a>                      Huxley 6M64                      020 75947761</p> <p>(Profs Lesley Cohen, Ji-Seon Kim or Dr Yvonne Unruh if you'd prefer to talk to a female member of staff)</p>	Pastoral care of students, personal issues, advice on mitigating circumstances
Director of Masters Teaching	Toby Wiseman <a href="mailto:t.wiseman@imperial.ac.uk">t.wiseman@imperial.ac.uk</a> Huxley 507	Oversight of all Physics MSc and MRes programmes, and those issues related to the wider college.
Disabilities Officer	Mery Fajardo <a href="mailto:ph.disabilityliaison@imperial.ac.uk">ph.disabilityliaison@imperial.ac.uk</a> Blackett 306	Disabilities, Special exam arrangements.
PGT Administrator	Bex Chrystall <a href="mailto:ph.pgt@imperial.ac.uk">ph.pgt@imperial.ac.uk</a> Blackett 315	Module registration, deadlines, ID cards, IT access, etc.
Physics PG Helpdesk	First Wednesday of each month (12-1pm, advertised by email regularly)	



## Highlights

- **Helpdesk:** co-run with Jess Popplewell from career office and current RAs. First Wednesday of every month 12-1pm. Exception: First session will be Wednesday 9<sup>th</sup> October 12-1pm
- **List of useful student support contacts:**  
[imperial.ac.uk/physics/students/current-students/taught-postgraduates/](https://imperial.ac.uk/physics/students/current-students/taught-postgraduates/) and select [Quick Contacts](#)
- **Student wellbeing advice team** (see next slide) and **Student mental health intervention officers** ([concernedaboutastudent@imperial.ac.uk](mailto:concernedaboutastudent@imperial.ac.uk))

# Student Wellbeing Adviser

Ella Robson, Department of Physics

The Student Wellbeing Adviser (SWA) provides students with confidential, one-to-one wellbeing support and guidance, either in-person or online via Microsoft Teams.

The SWA can support with general guidance on managing your wellbeing and can talk with you about wellbeing-related concerns in relation to your studies.

Students can self-refer for support or be referred by another member of staff.

## **Support is tailored to your circumstances and is an opportunity to:**

- Receive relevant information to assist with your query
- Access support with setting wellbeing-related goals
- Be introduced to wellbeing self-help resources
- Discuss where to go for further support

To find out more about support and/or to arrange a chat, scan the QR code, or email: [fonsstudentwellbeing@imperial.ac.uk](mailto:fonsstudentwellbeing@imperial.ac.uk)



## And now we will meet...

- *Ritvik Dinesh* and *Karna Khare* (Physics PG Representatives)
  - *Nico Henry* (Imperial College Union)
  - *Amy Thornton* (Women in Physics)
-

## Some words from Ritvik and Karna

- Important point of contact between students and department
  - Elections will be run soon by ICU
  - Will elect two reps per course; and one overall department rep
  - Minimal workload, but it is a very important role!
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WHERE YOU BELONG



**WELC**  **OME**  
**WEEK** 





Autumn Elections  
2024

Representation  
Networks  
& Liberation  
and  
Community  
Networks

CSPs  
(Over 340+)

FELIX Imperial's  
Student  
Newspaper  
+ Student  
Experience Fund

Venues

Advice  
Service





 [imperialcollegeunion.org](https://www.imperialcollegeunion.org)



# IC WiP



International Women's Day 2024

We run social and academic events aiming to create a welcoming, inclusive, and supportive network for women and non-binary people working and studying in physics.

Coming up:  
GirlsWhoML.  
Sign up here!



# IC WiP



International Women's Day 2024



womeninphysics@imperial.ac.uk



@ic\_wnbip



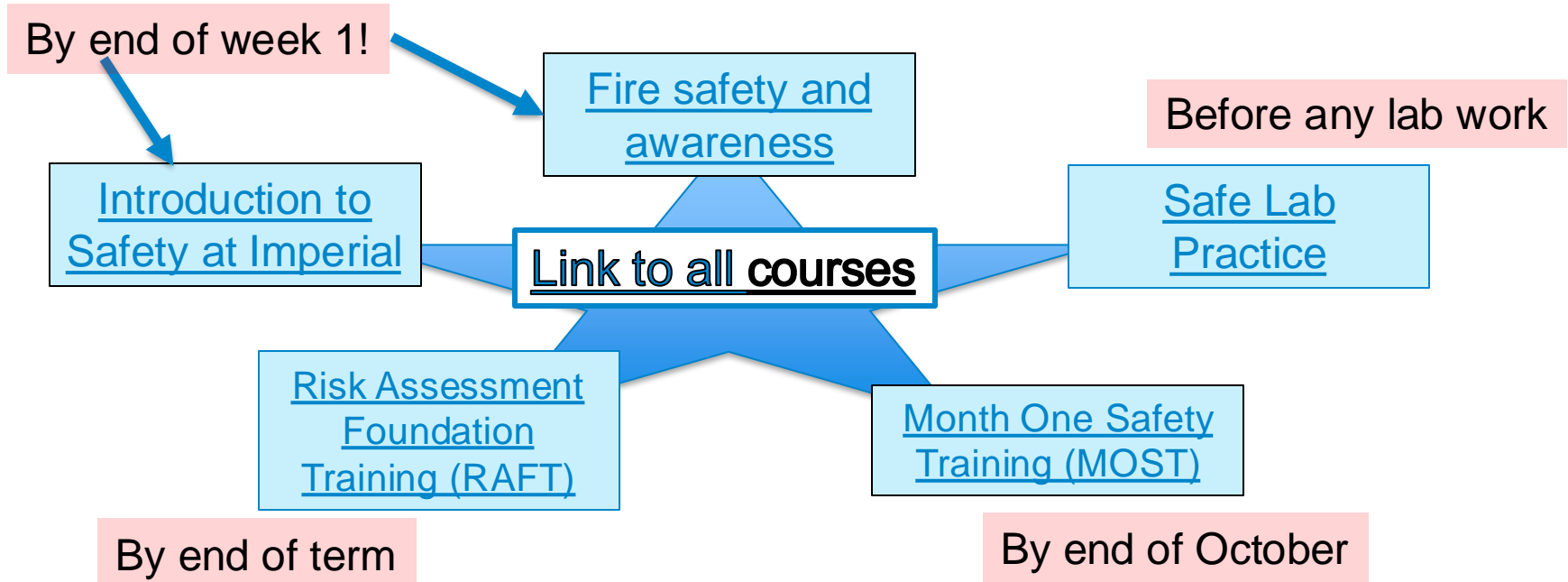
Becoming a member is free!  
Just sign up to the mailing list

**Some departmental information from me....**

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There may be other Health & Safety courses that you need to take for your specific programme. Your programme team will inform you.

## Mandatory online safety courses



## Mandatory online plagiarism courses

[Plagiarism  
Awareness](#)

By end of week 2

## Other resources

[University guidance Generative AI](#)

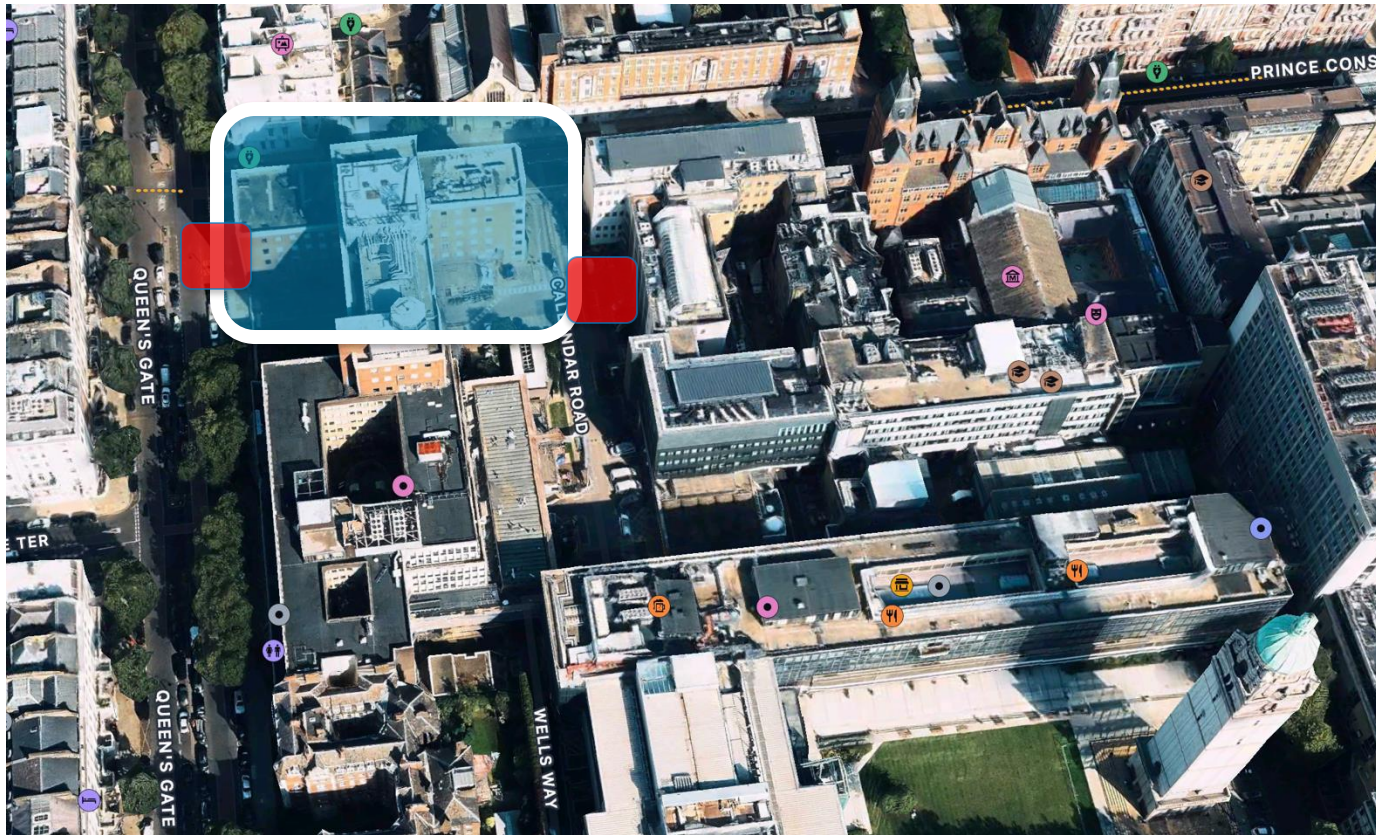
[Dept guidance on Generative AI](#)

## Security

- The College Security Team are here to provide a safe and secure environment
- You can call Security from any phone on **0207 589 1000**
- From a College phone, use **58900** (general) or **4444** (emergencies)
- More information (inc. phone numbers for other campuses):  
<https://www.imperial.ac.uk/admin-services/security/contact-us/>



# Imperial College London



<https://www.imperial.ac.uk/estates-facilities/health-and-safety/fire-safety/>

## Fire Safety

- On hearing the fire alarm, evacuate by the nearest exit
  - Use the stairs (not the elevator)
  - Follow the signs
  - Go to the nearest assembly point:
    - Corner of Queensgate and Prince Consort Roads
    - Roderic Hill car park
- If you discover a fire
  - Raise the alarm, eg, hit the nearest call point
  - Evacuate the building by the nearest safe exit
  - Contact Security



<https://www.imperial.ac.uk/estates-facilities/health-and-safety/fire-safety/>

## Information for current PGT students

- [PGT current students](#) web pages have useful information on such as;
  - Course handbooks
  - [Timetables for master's modules](#) (except SRST)
  - Information on elective selection
- Timetables for UG FHEQ level 7 (ie. masters level) modules are [here](#).

Framework for Higher Education Qualification



# Elective section

- The following have electives to choose and you will use the '[Elective App](#)' to do it; **MSc physics** and streams, **QFFF**, **O&P**, **MLBD**
- SRST have already requested electives from their students who **do not** use this App.
- Course descriptions will be given in your inductions and in handbooks. A list of all UG modules is [online](#).
- Timeline:
  - *Preliminary* choice at **end of week 3**
  - *Final* choice for UG modules at **end of week 5, term 2**
  - *Final* choice for others at **end of term 2**
  - BUT modules with in-course assessment must be selected before assessment starts

The screenshot shows a mobile application interface for selecting electives. At the top, there is a blue header with a hamburger menu icon, a large 'I' logo, and the text 'Select your electives'. Below the header, there are two summary boxes: 'Selected no.' with the value '4' and 'ECTS Value' with the value '90'. A navigation bar contains a '+ Read me' button, a 'Filters on' button with a funnel icon, and a 'Clear' button with a circular arrow icon. The main content area lists five physics modules, each with a selection checkbox, a course code, a term, an FHEQ level, and an ECTS value. The modules are: 'Advanced Quantum Field Theory' (PHYS70069, Term 2, L7, 7.5 ECTS), 'Black Holes' (PHYS70070, Term 2, L7, 7.5 ECTS), 'Differential Geometry' (PHYS70065, Term 1, L7, 7.5 ECTS), 'Foundations of Quantum Mechanics' (PHYS60011, Term 2, L6, 7.5 ECTS), and 'General Relativity' (PHYS70006, Term 1, L7, 7.5 ECTS). At the bottom, there are 'Back' and 'Continue' navigation buttons.

Module Name	Course Code	Term	FHEQ Level	ECTS Value	Selected
Advanced Quantum Field Theory	PHYS70069	Term 2	L7	7.5	<input checked="" type="checkbox"/>
Black Holes	PHYS70070	Term 2	L7	7.5	<input checked="" type="checkbox"/>
Differential Geometry	PHYS70065	Term 1	L7	7.5	<input type="checkbox"/>
Foundations of Quantum Mechanics	PHYS60011	Term 2	L6	7.5	<input checked="" type="checkbox"/>
General Relativity	PHYS70006	Term 1	L7	7.5	<input type="checkbox"/>

## Elective section

- Modules in physics are 5 or 7.5 ECTS each. This varies in other depts.
- With the exception of the Extended Research programme your elective selection must give a total with core and compulsory courses of 90 (or possibly 92.5) ECTS
  - 92.5 ECTS entails more work and you must consider this and discuss it with your course director.
- You cannot have less than 90; and you cannot have more than 92.5!
- Modules must be mainly 'FHEQ level 7' (= master's level)
  - You are permitted up to 15 ECTS of FHEQ level 6 (= BSc level) modules
- More information is found [here](#)

**... and will finish with some slides from ...**

- Library
  - Disability Advisory Service (DAS)
  - LGBTQ+ Network
  - Centre for Academic English
  - Careers support
  - Early Career Researcher Institute (= Graduate School)
  - Advanced Hackspace
  - PhysSoc
-

## Library Services for Physics MSc students

- Abdus Salam library building  
on campus
- Physics librarian – Ann Brew
- [Physics subject page](#), for journals,  
books and search tools
- Support with searching for information, finding material, referencing and  
plagiarism.



**Physics Masters' library session, Training Room 1  
Wednesday 16<sup>th</sup> October, between 1-2pm (drop-in)  
Information, library tour, freebies  
Drop in at any point during the hour.**

Imperial College  
London

# Disability Advisory Service(DAS)





# What we offer

## How can DAS help you

- Advisors – provide information, advice and guidance.
- Most common reasonable adjustments (extra time and computer use in exams), other adjustments may also include ergonomic equipment, and lab assistant.
- SpLD tutors - study skill tutorials and study efficiency sessions.
- Study mentors – problem-solving, strategies, life/study balance.
- And finally, we also offer screenings for autism and SpLDs (specific learning differences/difficulties).

# Screenings and assessments

## SpLDs and autism

- We can screen for autism – if you are finding it difficult to communicate in social situations, develop friendships, cope with unexpected changes to routine.... then come for a screening.
- We can screen for SpLDs (dyslexia, dyspraxia – DCD, ADHD as an SpLD) – if you are finding it difficult to retain what you've read, concentrate and stay focused, time management.... then come for a screening.
- If indicators are present, we refer you for a full diagnostic assessment.

# Support at Imperial via DAS



- Long and short-term support
- Knowledgeable team members and wealth of experience and expertise
- Efficient service and in-house support
- Multiple services are ready to support disabled students: careers, library, mental health mentors, student union - we all work in unison to provide support
- In your own time, [watch our video](#) to hear what students have said about us!

Imperial College  
London

# Disability Advisory Service



# PHYSICS LGBTQ+ Network

- **A warm welcome from the Physics LGBTQ+ Network!**
- **Regular events**
  - Coffee catch-ups!
  - Casual union drinks!
  - An opportunity for us to network and plan events!
- **Most communication via our WhatsApp community. Join here ----->**
- **Physics LGBTQ+ welcome party: date TBC – date to be announced in our WhatsApp community!**
- **We are recruiting students for our committee – let Yasmin Andrew know if interested!**



# Boost your STEM communication with CfAE



## Scan the QR code

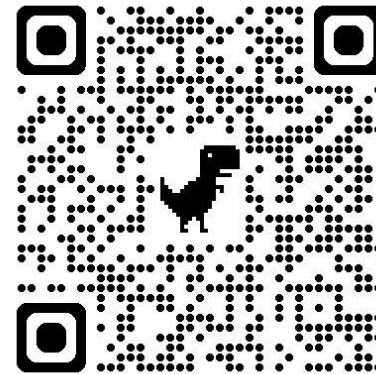
- **online self-study writing and speaking resources**
- **live guided speaking and writing activity sessions**
- **1:1 advice and feedback on speaking and writing online and on campus**

# Your Careers Consultant: Jess Popplewell

[j.popplewell@imperial.ac.uk](mailto:j.popplewell@imperial.ac.uk)



- 1-1 appointments available in-person and online
- Careers fairs and employer events
- Workshops throughout the year
- Check over application documents
- Practice presentations
- Mock interview support
- Sign up to JobsLive
- Ask an Alum (new feature!) >>>



## The Careers Service

Supporting our students during their studies and for three years after graduation.

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### Opening hours

Open throughout the year  
Monday – Friday 10.00 – 17.00

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### Keeping in touch

Subscribe to our newsletter from the profile settings via your JobsLive account or follow us on social media.



@ic\_careers



/imperialcareersevents



@imperialcareers

careers@imperial.ac.uk  
+44 (0)20 7594 8024





**Prof Lesley Cohen**

Member of Matter  
Community

**Research interests:**

- Superconductivity
- Magnetism
- Functional Materials
- Energy Efficient ICT
- Caloric cooling

## Departmental Career Support

I have office hours usually Mondays or Wednesdays 12-2pm. To make an appointment (virtually or in person) please email PH CAREERS <ph.careers@imperial.ac.uk>

Please check the Physics Career Website for info on internships and international research placements (for Undergraduates)

<https://www.imperial.ac.uk/physics/students/current-students/careers-information/>

For all students - please sign up to jobslive for regular College Career Event updates

<https://www.imperial.ac.uk/careers/services/jobslive/>

From 1 October 2024

# **IMPERIAL**

## **Early Career Researcher Institute**

### **ECRI**

**Graduate School (GS)**

**+**

**Postdoc and Fellows  
Development Centre  
(PDFC)**

## ECRI is responsible for the **postgraduate experience at Imperial College London.**


- **Professional development** – 25+ courses to develop the **skills** you need to **successfully complete your degree** and **prepare for your future**  
Compulsory course: **Plagiarism Awareness**
- **Wellbeing & Support** – **Coaching**
- **Community development** - postgraduate community **fund**
- **Cross-Imperial events** and networking opportunities
- Opportunities to **feedback** to the College – working with IC Union & Reps

**Regular newsletters/bulletins** – **read our emails!**




# IMPERIAL





Designed to assist you turn your ideas into reality by providing access to the latest prototyping equipment and support

- Create prototypes, experiment and refine ideas
  - Join a community of innovative makers from all backgrounds
  - Access the latest facilities
  - 1-1 or online support from a team of experts
- 



## Digital

3d printing  
Oscilloscopes  
Soldering  
Laser cutting



## Biolab

Microscope  
Cell culture lab  
Bioreactor  
Autoclave



## Mechanical

Large CNC  
Welding  
Milling & Turning  
Water jet cutting





[www.imperialhackspace.com](http://www.imperialhackspace.com)



# Welcome to the Blackett Laboratory



Imperial College  
London  
Blackett  
Laboratory  
Physics





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# What do we do?

- *Christmas Dinner*
- *Boat Party*
- *Researchathon*
- *London Physics Conference*
- *End of Term Pizza*
- *Pathway to PhD*
- *Integration Bee vs Maths*
- *Lab tours*
- *Pub Quiz Night*
- *And much more...*



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# The Committee



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# Stay up-to-date!

## *How can you hear from us?*

- Regular e-newsletter
- Instagram posts and stories
- TikTok posts
- Posters around Blackett
- Events on Lounge
- Check our website

## *How can you contact us?*

- Text us on Instagram
- Send us an email
- Approach any committee member you see around

Email: [physics.society@imperial.ac.uk](mailto:physics.society@imperial.ac.uk)  
Website: [imperial-physoc.co.uk](http://imperial-physoc.co.uk)  
Instagram: @physoc.imperial  
TikTok: @imperialphysoc

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Have a wonderful year!

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