Research Integrity

RESEARCH INTEGRITY IS ABOUT YOUR RESEARCH PRACTICES, HOW YOU PRESENT THE FINDINGS OF YOUR RESEARCH AND HOW YOUR RESEARCH IMPACTS ON SOCIETY AND THE WIDER WORLD.

At Imperial College London, you have the opportunity to work with internationally renowned academic staff who will guide you as you design rigorous, robust and reproducible research methods, ensuring that your research is lawful and that any adverse impact your research may have on society, natural environment or animals is justified and minimised. It is also about presenting the findings of your research in a responsible manner.

The College has adopted the Council for Science and Technology's Universal Ethical Code for Scientists and upholds its three principles, which are:

1	Rigour, Honesty and Integrity
2	**Respect for Life, the Law and the Public Good**
3	**Responsible Communications: Listening and Informing**

The primary way to ensure research integrity is to promote and maintain a culture of honesty, openness and responsibility. To this end, the Graduate School has the following professional development opportunities available to postgraduate students

Plagiarism Awareness
mandatory for both Master's and doctoral students

This online course was developed by the Graduate School, in conjunction with the Library. It aims to equip you with a working knowledge of the concept of plagiarism and how to avoid it. It also aims to provide you with information to enable you to use and share information ethically, with academic integrity and in accordance with Imperial College's Examination & Assessment: Academic Integrity Policy.

Copyright for Researchers *(doctoral)*

This course aims to convey copyright essentials. It is focused on UK law only. The structure of the course reflects your research lifecycle and aims to provide clarity on copyright issues you will encounter at each stage of the lifecycle. This course will equip you with a working knowledge of copyright and licensing so that in your career as a researcher you use and can share information in a copyright safe way.

Data Management *(doctoral)*

Data is a key research asset, underpinning almost all published research conclusions. In recent years, new technology has enabled us to:

1. Generate and record far more data than ever before; and
2. Share, reuse and combine that data in new ways to generate new insights.

Research data is increasingly a first-class research output, and a little bit of planning will enable you to take advantage of this shift. This course will highlight key considerations and help you to assess when it is appropriate to share your data and how to write a data management plan.

Science, Research and Integrity *(doctoral)*

This workshop is designed to give you a chance to explore and critically analyse the ethics of scientific research in a constructive way. We will critically discuss the structure and implications of specific cases of scientific fraud, and will also look at different moral theories and how they might apply not only to specific moral dilemmas, but also to science in general. The session will aim to forearm you by providing a safe environment within which to formulate and articulate your own views on how you might deal with the sorts of dilemmas you are likely to face during your career.

Intellectual Property *(doctoral)*

This course aims to equip you with a working knowledge of the concept of Intellectual Property (IP), and an awareness and understanding of the basic principles surrounding IP rights, such as patents, copyright, design rights and other forms of IP. An understanding of IP and its application is important for all students; for those intending to continue in academia as well as those intending to enter the commercial world after graduation.

Introduction to Making your Thesis Open Access
(doctoral)

This workshop will provide you with a general introduction to open access, with specific reference to the PhD thesis, and related research outputs that may arise from PhD study. The use of 3rd party copyright material in a thesis, and the workflow attached to ensuring this is legally re-produced in any thesis being deposited online in Spiral, will be included. You will be introduced to the College's repository, the Sherpa open access information services, and open access workflows.

The San Francisco Declaration on Research Assessment (DORA)

The College has signed the San Francisco Declaration on Research Assessment (DORA). The ethos behind DORA is to improve the ways in which the output of scientific research is evaluated by funding agencies, academic institutions, and other parties.

The outputs from scientific research are many and varied, including: research articles reporting new knowledge, data, reagents, and software; intellectual property; and highly trained young scientists. Funding agencies, institutions that employ scientists, and scientists themselves, all have a desire, and need, to assess the quality and impact of scientific outputs. It is thus imperative that scientific output is measured accurately and evaluated wisely.

As such the College has signalled that it will assess research based on quality rather than where it is published, for example journal impact factor.

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The Graduate School promotes the ethos behind DORA at the following professional development workshops:

Writing for Publication

becoming an effective researcher

understanding the manuscript review process

success in academia webinar

global impact retreat

FINISH UP MOVE ON +

REFERENCES:

The San Francisco Declaration on Research Assessment (DORA)
https://sfdora.org/

The UK Concordat to Support Research Integrity – Universities UK
http://www.universitiesuk.ac.uk/policy-and-analysis/reports/Documents/2012/the-concordat-to-support-research-integrity.pdf

The Universal Ethical Code for Scientists
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/283157/universal-ethical-code-scientists.pdf

The European Code of Conduct for Research Integrity – ALLEA (All European Academies) (2017)
http://www.allea.org/wp-content/uploads/2017/04/ALLEA-European-Code-of-Conduct-for-Research-Integrity-2017.pdf