

Open Science Training

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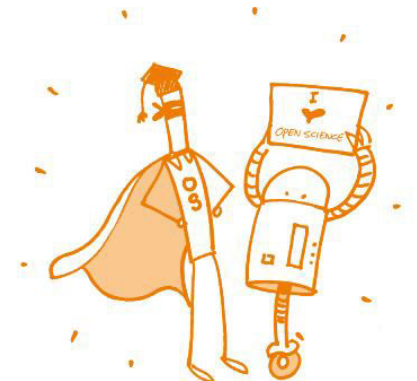
Attribution 4.0 International

Support research, teaching and learning

Enhance **open science and open research skills**

Support EIFL partner countries – Serbia is one of them - launching/implementing **open science training**

Advocate for research **incentives and structures that support and promote the acquisition of open science and open research skills**





LVIV POLYTECHNIC
NATIONAL UNIVERSITY

UK EN DE FR PL

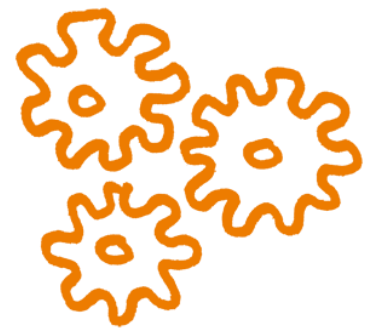
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OPTIMA

Open Practices, Transparency and
Integrity for Modern Academia (OPTIMA)

<https://lpnu.ua/en/optima>

Open science courses and handbooks



Open science as a part of in mandatory Master's and PdD courses – e.g. Methodology of Scientific Research

Optional Master's course - Open Science in Chemical Engineering and Manufacturing and a PhD course – Open Science Practices

Open Science Handbooks for Master's and PhD students

Open online course on open science

Open Science Handbooks – Master's chapters

- Using free and open resources
- Open principles
- Open collaboration
- Open access journals, repositories, preprints
- Reproducible research and data analysis
- Reproducibility, replicability: Working in a reproducible way for yourself, for others
- Preregistration and replication research
- Collecting data
- Managing and sharing research data
- Data management plans
- Making your thesis freely available
- Preparing for life after your thesis (paper), join the movement!



Open Science Handbooks – PhD chapters

- Open peer review
- Open research software and open source
- Open educational resources
- Evaluation of researches with regard to open science
- Public engagement with science
- Knowledge transfer and open innovation
- Horizon Europe
- National plan for Open Science
- Institutional Open Science policies and workflows



Open Science Handbooks – Disciplines

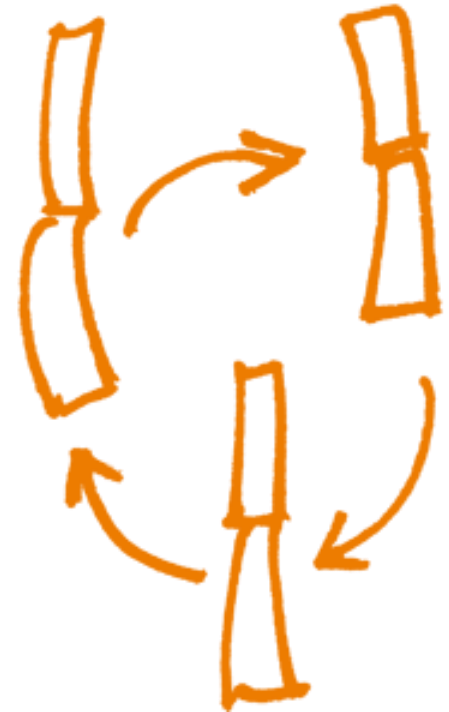
Biology

Chemical Technology

Climate Action

Ecology

Information Science





OPEN CLIMATE CAMPAIGN

A four-year campaign to make open sharing of research outputs the norm in climate science

OPEN SOCIETY
FOUNDATIONS



SPARC*

eifl KNOWLEDGE
WITHOUT
BOUNDARIES



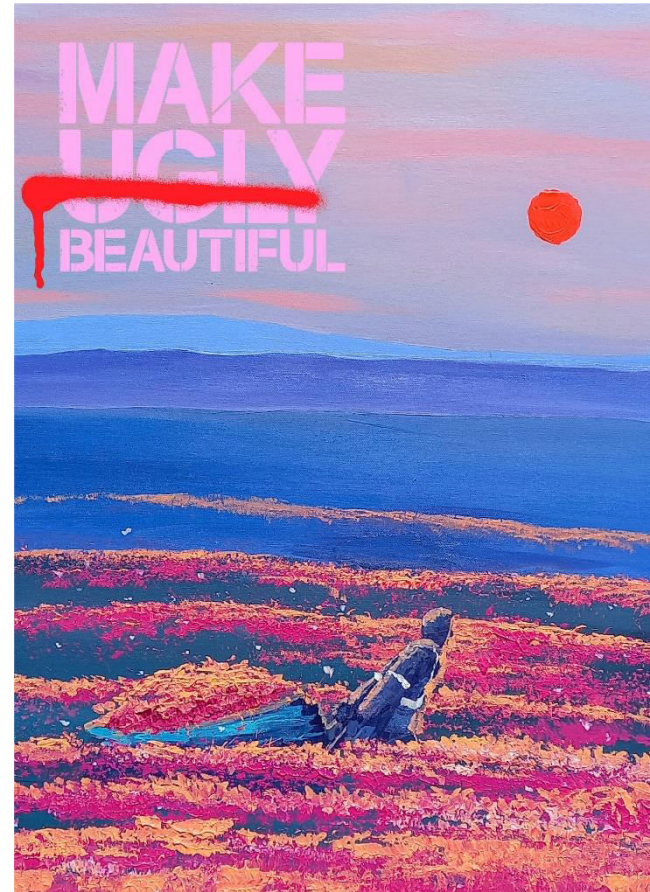
ARCADIA
A CHARITABLE FUND OF
LIBBET RAUSING & PETER BALDWIN

<https://openclimatecampaign.org>

@OpenClimateCamp

OPEN
CLIMATE
CAMPAIGN

- Bringing attention to the issue of access to knowledge on climate change particularly to **researchers** who are producing the knowledge and **informing them of tools that can open their research outputs.**
- Working directly with national governments, funders and environmental organizations to identify legal and policy barriers, **help governments create, adopt, implement equitable open access policies** to overcome them, and make it easier to open and share their climate change research, data and educational resources.
- Identifying, engaging, and contributing to draft **international frameworks** to include funder open access policy recommendations, and the public benefits of open access knowledge.
- Engaging with researchers, universities and policy makers from traditionally excluded groups and in geographical regions to ensure inclusive outcomes throughout.



Thabang Lehobye for
ArtistsForClimate.org,
CC-BY-NC-SA



What can you as a researcher do?

- [Deposit a preprint](#) of your publication in a preprint repository.
- [Publish your papers](#) open access.
- [Deposit a postprint](#) in an OA repository.
- [Deposit your data openly](#) with the CC0 public domain dedication to a data repository.
- [Upload your scientific code / scripts/ models openly](#) in a code repository.
- [Join the Open Climate Campaign newsletter](#).
- Tell other researchers about the campaign

How can the Open Climate Campaign help?

- Find [resources](#) on how to make your research open on our website.
- Attend Open Climate Campaign events to learn more about making your research open.

RESEARCHER ACTION KIT

English

Español

Français

PDF

PDF

PDF

ODT

ODT

ODT

GDOC

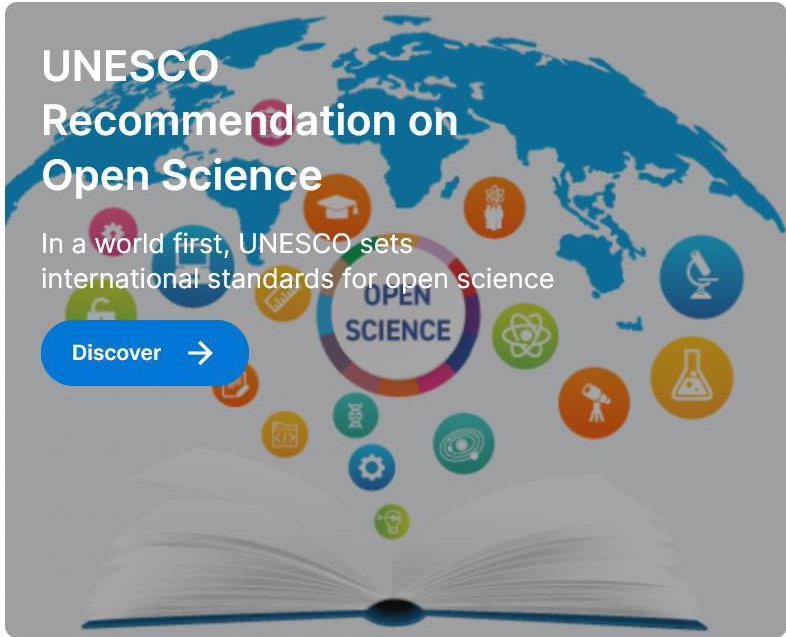
GDOC

GDOC

UNESCO Recommendation on Open Science

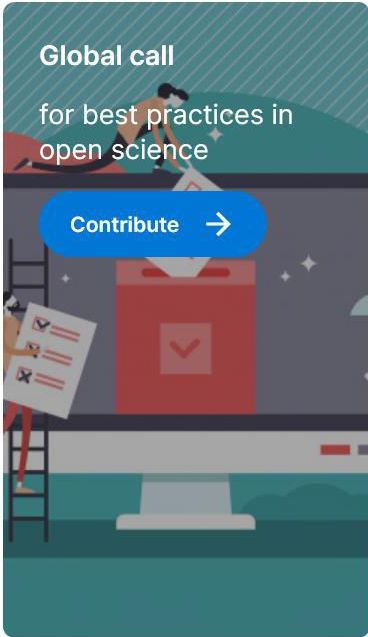
In a world first, UNESCO sets international standards for open science

Discover →

A graphic featuring a blue world map in the background. In the foreground, there is a circular arrangement of colorful icons representing various scientific fields: a microscope, a beaker, a rocket, a gear, a book, a person, a globe, and a leaf. Below the icons is an open book with white pages and a dark cover.

Global call for best practices in open science


Contribute →

An illustration of a person sitting at a desk with a computer monitor. The monitor displays a red envelope icon with a white checkmark. The person is holding a white card with a red envelope icon. The background is a dark blue gradient with white stars.

Call for papers

Open science policies as an accelerator for achieving the Sustainable Development Goals

More →

A photograph of a person's hands working at a desk. The person is wearing a white lab coat. They are looking at a document with several colorful sticky notes attached to it. The background is a blurred office setting.

<https://www.unesco.org/en/natural-sciences/open-science>

**Investing in human
resources, training,
education, digital literacy
and capacity building for
open science**





<https://eoscfuture.eu/eventsfuture/train-the-trainer-an-active-learning-course-on-understanding-using-eosc>

Train-the-Trainer: An active learning course on understanding & using EOSC

Events

<https://www.openaire.eu/2nd-open-science-train-the-trainer-bootcamp>






**EUROPEAN OPEN
SCIENCE CLOUD**

Data stewardship, curricula and career paths Task Force

Ilire Hasani-Mavriqi (AT, TU GRAZ)
Celia van Gelder (NL, DTL/ELIXIR-NL)
(Vera Matser, UK, EMBL-EBI)

Definition of a minimal data stewardship curricula



Recommendations for Data Steward curricula version 1

- Define Data Stewards roles, their core activities, possible specialisations or extension activities, and the context in which these roles operate
- Develop a competency profile for data stewardship core activities
- Define levels of training needed by the different Data Steward roles
- Produce guidelines for a Data Stewardship curricula, which could include university curricula as well as short training.

Recommendations for Data Steward curricula version 2

- Refined version of the the competency profile and curricula with input from the implementation use cases

Definition of a minimal data stewardship curricula



Implementation examples using use cases

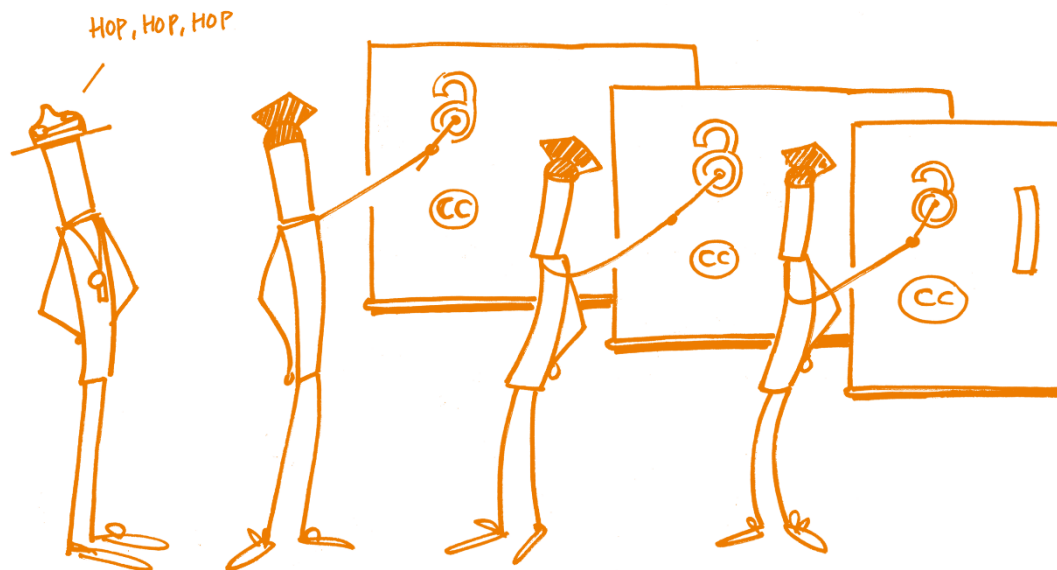
Identify use cases and potential settings to implement the version 1 of recommendations for data stewardship curricula and career paths

Use cases will contribute to version 2 of recommendations for data stewardship curricula and career paths

EIFL open science train-the-trainer bootcamp

2nd half of January

OPEN SCIENCE TRAINER BOOTCAMP
BECOME A SUPER TRAINER!



Thank you!

Questions?

Contact: iryna.kuchma@eifl.net
[@irynakuchma](https://www.instagram.com/irynakuchma)

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