Lessons for Librarians in Open Science
Principles and Methods 2022-2023

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Introduction
Open science is a practice recognized as a critical approach to improving and sustaining scientific inquiry and research. Librarians and information professionals serve as important actors within the research data life cycle and are essential to ensuring the practice of open science is promoted, and supported. However, librarian training in open science is routinely absent from formal library school curriculum, and repeatable and verified lessons do not exist.
With the support of the Institute of Museum and Library Services, UCLA Library Data Science Center is pleased to announce the call for proposals on *Lesson creation about open science methods and digital processes.*
This call seeks to support continued skills development for librarians in open science to effectively provide instruction to new researchers and effectively collaborate with faculty and researchers in science projects using open science practices. We will take advantage of guidelines of Carpentries Curriculum Development and call for lessons following Carpentries style.
Call for Proposals

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Goals

2022 – 2023
• Open Access Lessons
• Free for reuse and remixing
• Carpentries lesson style

2023 – 2024
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The proposal should be no more than 2 pages in length with 12 font (Arial) and 1.5 spaces. The proposal should have these components:

• Lesson topic
• Key words (3-4 words)
• Learner profile (1-2 paragraphs)
• Introduction (400 words in max)
• The lesson (Topic, Length, Structure, Content)
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Possible Lesson Topics Include

- What is/Why do Open Science? (FAIR, Guidance/Recommendations)
- Paths to Open Science, Stories, Examples, Use Cases
- Diverse, Equitable, Inclusive Communities (Fostering, Maintaining)
- Writing Open Science (Peer Review Process, Audiences, Forms)
- Linking Open Science, Search & Discovery Systems (Databases/Indexing, PIDs, Semantic Web)
- Team Science (Project Management, Collaborative, Versioning Systems)
- Data/Software Management (Best Practices/Standards, Tidy/Quality/Validating/Testing, Sharing/Publishing)
- Data Science, Modeling, Machine Learning, and AI Ready Data (Standards, Good Practices)
- Open Science in the Cloud (Remote Computing, Virtual Environments, Automation)
- Notebook Science (Reproducibility, Workflows)
- Analysis, Visualization, and Accessibility
- Responsible Conduct of Research (Ethics, Scientific Integrity, AI/ML)
- Community Science (Storytelling, Communicating Science to the Public)
- Open and FAIR Hardware (Making)
Deadline and Submission

Open Science Principles and Methods
Deadline **01/31/2023**

Submit a Proposal

Lesson Selection and Implementation

Open Science Principles and Methods
Lesson Selection Process

1. A review committee of researchers, librarians, and open science experts will be formed
2. A rubric for evaluation will be developed
3. The committee will select 7 lesson proposals in both 2023 & 2024 for further development
4. Selected proposals will receive a $5,000 award to fully develop the lesson
Carpentries Lesson style

For guidelines on how to develop curriculum content, please visit The Carpentries Curriculum Development Handbook.

This lesson shows how to use The Carpentries lesson template. The materials below assume familiarity with tools such as GitHub, Markdown, and Jekyll. For more guidance, please visit the Technical introductions section of The Carpentries Curriculum Development Handbook.

For guidelines on how to help improve our lessons and this template, please see the contribution guidelines; for guidelines on how to set up your machine to preview changes locally, please see the setup instructions.
Support from UCLA

Two virtual summer institutes in 2023 and 2024

Support and training in creating lessons
Find out more about this project:

Send an email to
dataScience+imls@ucla.edu