



FLORIDA STATE UNIVERSITY
LIBRARIES

Open Data, Open Science and applications for academic libraries

Perspectives from STEM Libraries at Florida State
University

Presented by: Dr. Nick Ruhs and Renaine Julian

Defining open science and open data

Research data management

Teaching data information literacy

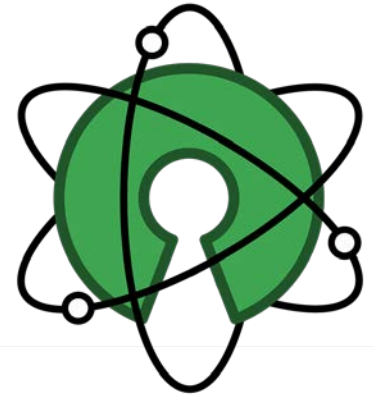
USEDit

Undergraduate research in open science

Moving forward

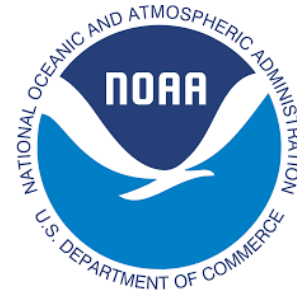
Open science is the movement to make scientific research and its dissemination accessible to all levels of an inquiring society, amateur or professional.

Open science is transparent and accessible knowledge that is shared and developed through collaborative networks





National Institutes
of Health



BILL & MELINDA
GATES foundation



ALFRED P. SLOAN
FOUNDATION

Assist with writing required 2-page data management plans

Workshops for graduate students and faculty

Partnerships with: Office of Research,

Graduate School, Research Computing

Center, and others

Leverage credibility gained through DMP consultations

Questions beyond current level of expertise

Development of lab protocol

OPEN Government Act



Created by Sergey Krivoy
from Noun Project

STEM Everyday Data workshop series



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- Introductory workshops on data analysis and visualization software used by researchers
- Focus on openly available software
- Attendees included undergraduate and graduate students, and faculty



STEM Everyday Data Workshop Series

Workshops will take place at Dirac Science Library
in the Dirac Instruction Room.

February 12 @ 3 p.m.
Introduction to Python

February 14 @ 3 p.m.
Introduction to MatLab

February 26 and 28 @ 3 p.m.
Introduction to Linux

March 5 @ 3 p.m.
Introduction to R

March 28 @ 3 p.m.
Introduction to QGIS

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Workshop Collaborations



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- Collaborators:
 - FSU Research Computing Center
 - FSU Libraries Office of Digital Research & Scholarship
- Collaborating allowed us to take advantage of internal and external data expertise and increase our workshop offerings
- Partnering with FSU Libraries marketing team allowed us to increase community engagement



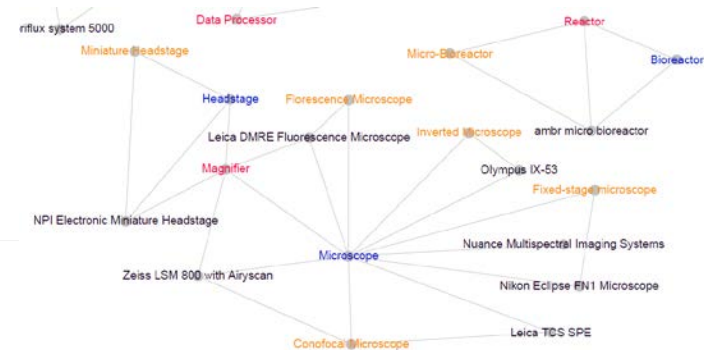
- Universal Scientific Equipment Discovery Tool
- Structured citation style or method for scientific lab equipment used in publications or grant applications
- Unique universal identifier
- Links out to standardized set of equipment information
- Will be openly available to students, researchers, and the community



Benefits of USEdit



- Increased reproducibility of experimental results
- Accurate tracking of equipment being utilized to conduct research
- Allows researchers to discover new relationships between equipment and research, increasing the potential for collaboration
- Allows for the productivity of research equipment to be quantified



LD Base

- NIH Funded
- Collaboration with Psychology dept

UROP Open Science

- Two undergraduate researchers and librarian
- Explore how scientific data is being used outside of academia

FSU researchers receive \$3M to create national repository for data on learning disabilities

BY: DAVE HELLER | PUBLISHED: JANUARY 24, 2019 | 10:30 AM | SHARE: [f](#) [t](#) [b](#) [v](#) [p](#)



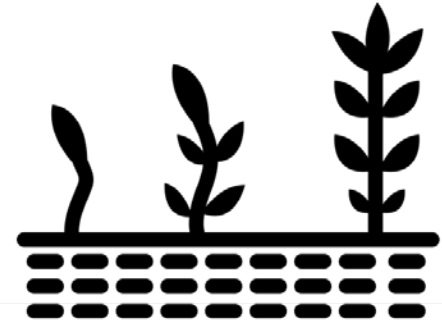
► Sara Hart, associate professor of psychology, will lead a project with FSU Libraries to build the nation's first-of-its-kind big-data repository at Florida State. The project is funded by a \$3 million grant from the National Institutes of Health.

Focus group assessing campus data needs

Campus data advisory board

Deepening RDM services

- Lab level support
- Project level support



Questions/Comments



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