

Insufficient Data? Advance Your Skills and Library Services with Data Services On-Demand Training

Carolann Curry¹, Justin de la Cruz², Christine Nieman Hislop³, and Peace Ossom²

¹University of Washington Health Sciences Library, NNLM Region 5; ²New York University Health Sciences Library, NNLM National Center for Data Services;

³University of Maryland, Baltimore Health Sciences and Human Services Library, NNLM Region 1

Background

- Academic and research libraries' traditional role in providing information support and training has recently been expanded to include support in all aspects of the research lifecycle¹
- Data librarians provide a broad range of services to their users and, therefore, need a variety of skills and expertise²
- The Network of the National Library of Medicine (NNLM) and the National Center for Data Services (NCDS) will soon launch a free, on-demand course tailored to empower librarians to navigate the complex landscape of research data management and data-driven discovery

References

1. Ashiq, M., & Warraich, N. F. (2023). A systematized review on data librarianship literature: Current services, challenges, skills, and motivational factors. *Journal of Librarianship and Information Science*, 55(2), 414-433.
2. Federer L. (2018). Defining data librarianship: a survey of competencies, skills, and training. *Journal of the Medical Library Association: JMLA*, 106(3), 294-303.

Data Services On-Demand Training Modules

Course Description: Data Services On Demand (DSOD) is a modular learning course that works for you. Developed by NNLM and NCDS staff, each module is self-contained and offers at least 4 hours of MLA CE credit. Completion of the Data Services On Demand (DSOD) in its entirety will provide foundational knowledge for beginning as a data librarian.

Module 1: Data Management

1. Use strategies for creating files that are findable and accessible for a research team
2. Assess data dictionaries, codebooks, and similar files for comprehensive documentation
3. Describe common methods for quality control in data collection and versioning

Module 2: Data Sharing

1. Recognize data sharing requirements of funders and publishers
2. Recognize the differences between domain-specific and generalist repositories
3. Identify desirable characteristics of data repositories for federally funded research

Module 3: Data Ethics

1. Identify major ethical frameworks
2. Apply major ethical frameworks to issues related to data management, sharing, and visualization
3. Recognize the special impacts of data collection on vulnerable communities from a social justice vantagepoint

Module 4: Open Science

1. Define open science
2. Articulate how open science supports research integrity and reproducibility
3. Explore tools and resources for reproducible research and open science

NNLM Data Resources

- NIH Data Management and Sharing Policy Toolkit
<<https://www.nlm.gov/guides/nnlm-toolkit-nih-data-management-and-sharing-policy>>
- NNLM Data Glossary
<<https://www.nlm.gov/guides/data-glossary>>
- NNLM Data Repository Finder
<<https://www.nlm.gov/finder>>
- On-Demand Training and Live Classes
<<https://www.nlm.gov/training>>
- Sponsorship of the MLA's Data Services Specialization (DSS)
<<https://www.nlm.gov/guides/data-services-specialization>>
- NCDS Data Internship
<<https://www.nlm.gov/about/centers/ncds/internship>>

Scan here for more information on NNLM training resources for data-driven research!

The goal of the NNLM is to advance the progress of medicine and improve public health by providing U.S. health professionals with equal access to biomedical information and improving individuals' access to information to enable them to make informed decisions about their health.



NNLM offers a variety of free online, on-demand and in-person training opportunities to support professional development and continuing education for librarians, educators, and health professionals.

Many of the NNLM's data resources, including the Data Services On-Demand course, are practical in scope and not specific to medical librarians; anyone with an interest in research data management and library data services can participate in NNLM and NCDS trainings.

