

Advances in Data Curation Education

Matt Mayernik, mayernik@ucar.edu

*National Center for Atmospheric Research (NCAR)
University Corporation for Atmospheric Research (UCAR)
NCAR/UCAR Library*

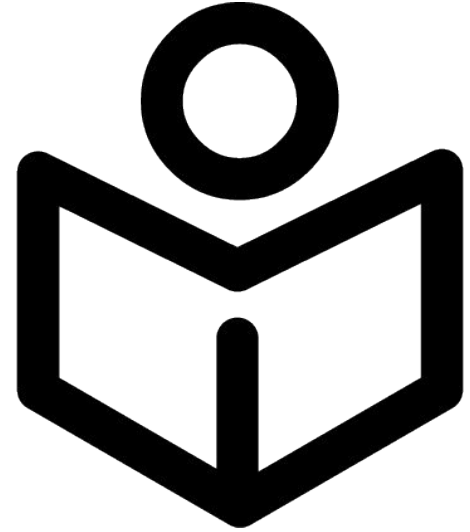


April 11, 2023



Overall structure

1. Background
2. Formal graduate education
3. Campus-based education resources
4. Informal education



My Background

- Master's and PhD from UCLA Department of Information Studies
- Teaching at Master's programs in Library & Information Science (LIS)
 - University of Denver, "Data Curation", 2015, 2016, 2021
 - University of Washington, "Data Curation - Fundamentals", 2023
- Working with students
 - Advisor for ~20 Master's practicum/internship projects
 - Five different universities
 - Participant in two IMLS-funded data curation programs



Digital Curation Workforce Characteristics

National Research Council. 2015. *Preparing the Workforce for Digital Curation*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/18590>

“There is no single occupational category for digital curators and no precise mapping between the knowledge and skills needed for digital curation and existing professions, careers, or job titles.”

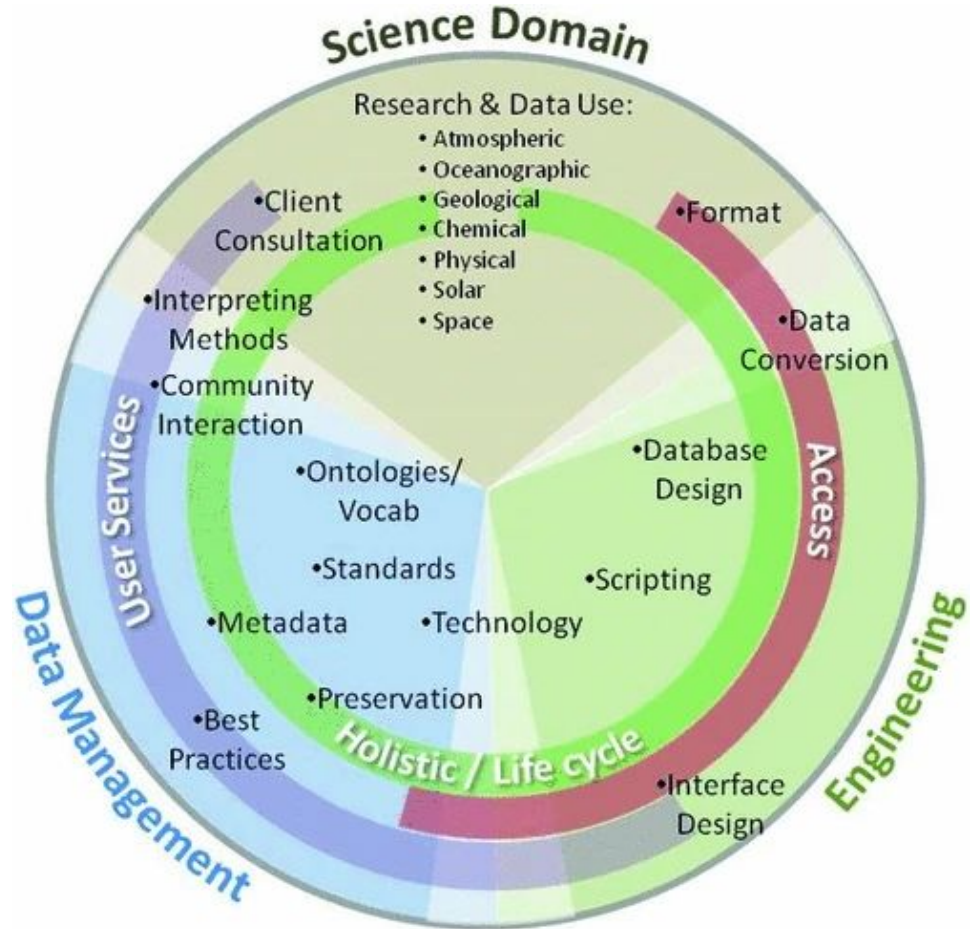
“Conclusion 3.1: Jobs involving digital curation exist along a continuum, from those for which almost all tasks focus on digital curation to those for which digital curation tasks arise occasionally in a job that is embedded in some other domain.”

“Conclusion 4.2: The knowledge and skills required of those engaged in digital curation are dynamic and highly interdisciplinary. They include an integrated understanding of computing and information science, librarianship, archival practice, and the disciplines and domains generating and using data.”

Data Curation Skill Spectrum

Mayernik, M., et al. (2014). Research center insights into data curation education and curriculum. In *Theory and Practice of Digital Libraries -- TPDL 2013 Selected Workshops* (pp. 239-248). Cham: Springer.
https://doi.org/10.1007/978-3-319-08425-1_26

OA copy: <http://n2t.net/ark:/85065/d7bc40z3>



Formal Graduate Education

- Data curation courses exist widely within Library and Information Science (LIS) programs
- Degree and certificate specializations are less common, but when they exist, they are offered by LIS programs
- Many LIS courses and specializations started in 2005-2015
- Significant corpus of research on digital/data curation education

Yoon, A., Murillo, A.P., and McNally, P.A. (2021). Digital preservation in LIS education: A content analysis of course syllabi. *Journal of Education for Library and Information Science*, 62(1): 61-86.

<https://doi.org/10.3138/jelis.62.1-2018-0053>

OA copy: <https://files.eric.ed.gov/fulltext/EJ1311682.pdf>

Campus-Based Education and Training

Many university libraries provide data curation services and/or training:

- One-on-one consultations
- For-credit courses
- In-class seminars
- Training workshops (e.g. carpentries)

Center for Research Data & Digital Scholarship

🏠 **What We Do** Our People Opportunities Learning Materials Events Contact Us

What We Do

Established in 2017, the Center for Research Data and Digital Scholarship is a partnership between [Research Computing](#) and the [University Libraries](#). We are a collaborative team of data and information professionals, scholars, and educators with expertise in data-intensive scholarship and teaching. Our goal is to serve as an interdisciplinary hub and resource on campus that empowers everyone as they navigate the [Research Lifecycle](#), through workshops and seminars, certificate programs, and collaborative opportunities.

Services and Support



The Research Lifecycle

CRDDS supports the entire research lifecycle. Discover resources and tools to help you research, publish, and promote your work.



Education & Training

We offer educational opportunities, such as courses or informal seminars, to teach important skills in the area of data science.



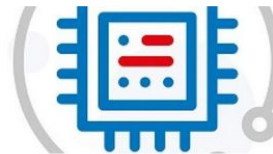
Grant Support

We specialize in meeting funder data requirements, collaborating on digital humanities projects, and providing infrastructure for data storage, archiving, and publishing for grant proposals.



Digital Humanities & Digital Scholarship

We specialize in working with digital projects and computational



Research Data Infrastructure

We provide assistance with using large-scale computing resources and long-term data storage.



Open Research Publishing

We support researchers in sharing and preserving their scholarly work (e.g., data sets, journals, articles, preprints,

Informal Education

Data Management Training Clearinghouse (DMTC) is a registry for online learning resources focusing on data skills and capacity building for research data management, data stewardship and data education.

<https://dmtclearinghouse.esipfed.org/home>

n/a ☆☆☆☆☆

[Introduction to Statistics for Social Sciences: Lecture 1](#)



Author: Jessica Bishop-Royse

This video is one of a 3 lecture series that introduces students to statistics for social science research. The lectures support the textbook: "REVEL for Elementary Statistics in Social Science" by J. Levin, J.A. Fox, and D.R. Forde. This vide ...

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[Data Management Guidelines](#)



The guidelines available from this web page cover a number of topics related to research data management. The guidelines are targeted to researchers wishing to submit data to the Finnish Social Science Data Archive, but may be helpful to other social scientists interested in practices related to res ...

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[Research data management training modules in Social Anthropology_\(Cambridge\)](#)



Author: Irene Peano

Looking after digital data is central to good research. We all know of horror stories of people losing or deleting their entire dissertation just weeks prior to a deadline. Even before this happens, good practice in looking after research data from the beginning to the end of a project makes work an ...

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[Teaching and Learning with ICPSR](#)



These resources were created especially for undergraduate faculty and students. While any of ICPSR's data and tools can be used in the classroom, the ones provided here make it easy for instructors to set up data-driven learning experiences. The materials can be used as the basis for assign ...

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[The Theory, Practice and Limits of Big Data for the Social Sciences](#)



Author: Martin Hilbert

Martin Hilbert delivered this talk on May 1, 2015 at the Institute for Social Sciences conference series Leading Research in the Social Sciences

Summary

- Broad interest in training
- Narrow scope of formal education - LIS programs are main providers
- Many resources available for informal and self-driven trainings
- Questions
 - Who is the focus of education? What is the goal?
 - Grow professional base? Build specific skills?



AI generated image by <https://www.crayon.com/>,
prompt “curating social science data”