

## **Sarah K. Oelker**

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### **EXPERIENCE**

#### **Mount Holyoke College**

##### *Instructional Technology and Data Services Specialist*

*June 2021—April-2023*

- Consulted with faculty on technologies for instruction, coursework, and student research participation.
- Advised on day-to-day storage and management of research data, deposition of data to appropriate repositories upon publication and at the end of project lifecycles, and research computing workflows.
- Provided individualized and group instruction and tutorials in person, remotely, and as asynchronous learning objects, on a variety of instructional technologies and core data science skills.

##### *Instructional Technologist and STEM Research Librarian*

*December 2018—June 2021*

- Delivered faculty consultations on technology for use in instruction, student assignments, and independent studies, particularly during three semesters of remote and hybrid teaching and learning.
- Taught library instruction in 100-level through 300-level courses across qualitative and quantitative research fields.
- Guided consultations on independent research projects.

##### *Science Librarian*

*August 2005—December 2018*

- Supported student and faculty researchers with library instruction, individual consultations on research questions, instructional technology development, and data management plan advice.
- Led move from Sakai to Moodle learning management system on campus,
- Coordinated Moodle user support including documentation, instance customizations, upgrade lifecycle management, and evaluation/installation of new plugins.

#### **Drew University Library**

##### *Reference Librarian with Science Specialty*

*January 2003—July 2005*

- Provided science and general reference services in person and via telephone, email and chat.
- Conducted bibliographic instruction for students in first-year seminars and in science courses.

- Developed reference collection in sciences, evaluated and recommended science databases for purchase, and acted as a liaison to the mathematics and sciences faculty.

## EDUCATION

**Rutgers, The State University of New Jersey**

*Masters in Library and Information Science*

2003

**Yale College**

*BA in Molecular Biophysics and Biochemistry*

1999

## PUBLICATIONS AND PRESENTATIONS

See <https://orcid.org/0000-0001-6655-7184>

James Burke and Sarah Oelker, "**Library and IT Partnerships to Support Data**

**Services.**" July 20, 2023, Presentation at ACRL-New England Research Data Services Interest Group Research Data Services Roundtable, University of Massachusetts, Amherst, MA.

Joel Broyles, Aime DeGrenier, Janet Ewing, Sarah Oelker, Shaun Trujillo, "**Building shared expectations for success with institutional support of network-attached storage (NAS) devices.**" March 11, 2020, Poster presentation at Research Data Access and Preservation (RDAP), Santa Fe, NM.

McDowell, G.S.; Knutsen, J.D.; Graham, J.M.; Oelker, S.K.; Lijek, R.S., 2019. "**Co-reviewing and ghostwriting by early-career researchers in the peer review of manuscripts.**" *eLife*, 8 (October 2019), Article number e48425.  
<https://doi.org/10.7554/eLife.48425>

Atwood, Thea P.; Creamer, Andrew T.; Dull, Joshua; Goldman, Julie; Lee, Kristin; Leligdon, Lora C.; Oelker, Sarah K., 2019. "**Joining Together to Build More: The New England Software Carpentry Library Consortium.**" *Journal of eScience Librarianship*, 8(1), 5, e486. <https://doi.org/10.7191/jeslib.2019.1161>

Thea Atwood, Andrew Creamer, Joshua Dull, Julie Goldman, Kristin Lee, Lora Leligdon, and Sarah Oelker, "**The New England Software Carpentry Library Consortium: Developing a Carpentry Instructor Community of Practice.**" April 5, 2018, Poster presentation at University of Massachusetts and New England Area Librarian e-Science Symposium, Worcester, MA.

Sarah Oelker, Julie Adamo, Nick Baker, James Burke, and Mary Glackin, "**Building Research Data Services at Mount Holyoke College.**" April 6, 2017, Poster presentation at University of Massachusetts and New England Area Librarian e-Science Symposium, Worcester, MA. Awarded "Best Poster Overall" prize.

Sarah Oelker and Katherine Aidala, "**Infographic Pie Judging in a Science FYS.**" In R. Pun and M. Houlihan (Eds.) *The First-Year Experience Cookbook*. Chicago: ACRL, 2017.

Godbout C, Oelker, SK, and Stettner, M. 2015. **“Ask LITS’: A Novel Public Question And Answer Board,”** College and Research Libraries News, 76(5): 274-277.

Sarah Oelker, Caro Pinto, Julie Adamo, Alice Whiteside, and Mary Stettner, **“Practice, Polish, Present: A Team Approach to Professional Development,”** May 9, 2014, Association of College and Research Libraries New England Chapter Annual Conference, Worcester, MA.

Sarah Oelker and Aime DeGrenier, **“A Collaboration of Nuts and Bolts with Pointer and Clicker,”** October 21, 2013, NERCOMP Instructional Design Symposium, Loudonville, NY.

Goldstein S and Oelker SK. 2011. **“Planning for Data Curation in the Small Liberal Arts College Environment,”** Sci-Tech News 65(3): 5(7).

Sarah Oelker and Sarah Goldstein, **“Planning for Data Curation in the Small Liberal Arts College Environment,”** June 16, 2011, Special Library Association Annual Conference, Philadelphia, PA.

Sole presenter, Metropolitan Library System Continuing Education Workshop, **“Science Information Literacy for Non-Scientists,”** January 14, 2009, Chicago, IL.

Choice reviewer for science reference books, 2004-2008.

## GRANTS

**Bioinformatics in the Undergraduate Curriculum**, key personnel  
*Center for Educational Technology (now NITLE)* 2006

**Rooting HSTEM – enhancing DEIR dialogue and dissemination in the sciences**,  
 collaborator  
*Racial Equity Research and Action Grants, Mount Holyoke College* 2022

## SKILLS

*Technical:* Moodle, WordPress, UNIX command line, Bash scripting, OpenRefine, RStudio desktop, RStudio Workbench, Python, Jupyter Notebook, JupyterHub, Arduino, Github, Raspberry Pi, InDesign, CINDEX, Indexing.

*Soft:* Training, Project consultation, Writing, Editing, Proofreading, Reference interviewing, Ethnographic interviewing, Systems thinking, Collaborative problem solving.

*Languages:* Conversational Russian, Reading knowledge of French, HSK 2 Mandarin Chinese

*Other:* General class FCC amateur radio license, callsign KC1MTX.

## CERTIFICATIONS

Carpentries Instructor, March 2018  
 IBM Data Science Professional Certificate, April 2024

## **PROFESSIONAL DEVELOPMENT**

- “Uncovering Unconscious Bias in Recruiting and Interviewing.” Dr. Tana Session,  
<https://www.linkedin.com/learning/uncovering-unconscious-bias-in-recruiting-and-interviewing?u=35668980>. Completed April 2022.
- “Components of Effective Learning,” Michael Allen,  
<https://www.linkedin.com/learning/components-of-effective-learning?u=35668980>.  
Completed January 2022.
- “Using Neuroscience for More Effective L&D.” Stella Collins,  
<https://www.linkedin.com/learning/using-neuroscience-for-more-effective-l-d?u=35668980>. Completed April 2022.

## **SERVICE**

### **New England Software Carpentry Library Consortium (NESCLiC)**

*Executive Committee*

2017— present

### **National Network of Libraries of Medicine, New England Region eScience Program**

*Chair, Researcher Support Committee*

2016—2018