Agenda

- What is RDMLA?
- Why was RDMLA created?
- What content is available from RDMLA?
- Who can take and/or benefit from RDMLA and how does one access it?
- Who developed RDMLA?
- What future plans are there for expanding and updating RDMLA?
- Why is RDMLA valuable to research leaders? Future librarian employers?
- Success metrics to date and the future
- Questions and Answers
What is RDMLA & Why is it Unique?

- An online education program offering individuals an opportunity to learn about research data management practices.
- Developed in partnership with industry, a team of librarians and LIS faculty who have expertise with RDM.
- Filling in a gap in RDM training
- Website: rdmla.github.io
RDMLA Course on Canvas

- The Academy offers **eight** units, which can be taken in sequence or out of order.
- All units are hosted online via the Canvas Network platform under **CC-BY-NC-SA** licensing.
- Website: [rdmla.github.io](http://rdmla.github.io)
Partner Institutions

Harvard University
Harvard Medical School
Simmons University
Boston University
Tufts University
Northeastern University
Massachusetts College of Pharmacy and Health Sciences
Brown University

ELSEVIER
Elsevier
(financially supports program also)
The Role of Librarians in RDM

- **Service** Bucket
- **Best Practices for Data Management** Bucket
- **Literacy** Bucket
- **Archives/Preservation** Bucket
- **Policy** Bucket
- **Community of Librarians**
User-Centric Data Management Framework for Librarians

Community of Librarians
Challenges Librarians Face

Challenges Libraries Face in RDM Service Provision (N=54)

- Capacity/Bandwidth; Limited Staffing: 51 (80.95%)
- Data Sharing & Dissemination: 49 (77.78%)
- Data Discovery & Access: 42 (66.67%)
- Data Preservation: 41 (65.08%)
- Metadata: 41 (65.08%)
- Data Organization & Curation: 37 (58.73%)
- Data Visualization: 37 (58.73%)
- Protocol Documentation: 20 (31.75%)
Strategies to Address the Challenges

- RDMLA
- Collaboration with IT, Office of Research, and other stakeholders.
- Library directors need to advocate for funding for their RDM services.
- Partner with other libraries and share experiences to build a community of RDM.
Why Was RDMLA Created?

- Researchers can benefit from a team member who can organize and describe data effectively.
- Librarians can transfer content organizational and descriptive talents to data along the different phases of the research lifecycle.
- Librarians currently have a continuum of skill levels with research data management (RDM); RDMLA was created for the practicing librarian to enhance their skill sets so they can be part of research teams.
- RDMLA can also be applied by researchers wishing to learn more about RDM foundations and related software and tools.
Who Developed RDMLA?

**Leadership**
- Elaine Martin (Harvard)
- Rong Tang (Simmons)
- Jean P. Shipman (Elsevier)

**Project Staff**
- Zhan Hu (Simmons)
- Irena Fayngold, Ellen Berrigan, Madhu Narayan (Simmons)
- Ashley Thomas (Simmons, Harvard)

**Faculty**
- See Next Slide

**Simmons SLIS & Simmons Online**
- Sanda Erdelez (SLIS Director, Simmons SLIS)
- Kristen Palson, Courtney Bohr, Madhu Narayan (Simmons Online)
RDMA Faculty

Unit 1  Elaine Martin (Harvard), Julie Goldman (Harvard), Danielle Pollock (Simmons), Philip Coombs (BU)

Unit 2  Andrew Creamer (Brown)

Unit 3  Ceilyn Boyd (Harvard); Elaine Martin (Harvard), Mary Blanchard (BU), Eric Albright (Tufts), Richard Kaplan (MCPHS)

Unit 4  Jen Ferguson (Northeastern), Rebecca Morin (Tufts)

Unit 5  Rachel Lewellen (Harvard), Alison Thornton (Harvard), Danielle Adams (Harvard)

Unit 6  Berika Williams (Tufts)

Unit 7  Scott Lapinski (Harvard), Roger Vargas (Harvard)

Unit 8  Jean P. Shipman (Elsevier), Julie Goldman (Harvard), Scott Lapinski (Harvard)
What Content Is Available In RDMLA?

Unit 1: Foundations of Research Data Management (RDM)

Unit 2: Navigating Research Data Culture

Unit 3: Advocating and Marketing the Value of RDM in Libraries

Unit 4: Launching Data Services in Libraries

Unit 5: Project Management and Assessment

Unit 6: Overview of Data Analysis and Visualization Tools

Unit 7: Overview of Coding Tools

Unit 8: Overview of Platform Tools (eg. Mendeley Data, OSF, NIH)
The Match

User-Centered Data Management Framework for Librarians

Services
- Environmental Scan
- Identify Needs
- Develop Services to Meet User Needs
- Best Practices for Data Management
  - Naming Convention
  - E-Notebooks
  - Privacy
  - Lab Management

Literacy
- Principles of Data Management
  - R
  - Python
  - Tableau

Archives/Preservation
- Institutional Repository
  - LOCKSS
  - CLOKSS
  - bepress

Policy
- Standards
- National
- International
- Institutional

Community of Librarians
Community of Librarians

User Centered Data Management Framework for Librarians

- Services
  - Best Practices for Data Management
  - Literacy
  - Archives / Preservation
  - Policy

- Environmental Scans
  - Naming Conventions
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- Identify Needs
  - E-Notebooks
  - R
  - LOCKSS
  - National

- Develop Services to Meet User Needs
  - Privacy
  - Python
  - CLOCKSS
  - International

- Lab Management
  - Tableau
  - bepress
  - Institutional
UNIT THREE
Advocating for RDM Libraries

Unit Objectives

- Describe common institutional RDM stakeholders, including advocates and potential partners.
- Describe common institutional and organizational barriers to implementing RDM services in the library.
- Compare common successful and unsuccessful strategies for advocating for RDM services.

Instructors

Ceilyn Boyd
Elaine Martin
Mary Blanchard
Eric Albright
Richard Kaplan
Instructors

Jen Ferguson  Rebecca Morin

Unit Objectives

- Evaluate how their institution might fit with various data service approaches and models.
- Describe the stakeholders and groups to consider when launching and managing data services in libraries.
- Design an action plan to establish data services in their institution.
RDMLA Target Learner Population

- Who can take and/or benefit from the RDMLA?
  - Library and Information Professionals
  - Professionals who work in research intensive environments

- How does one access?
  - Go to rdmla.github.io
# Timeline

**PHASE 1**
- **Summer-Fall 2018**
  - A needs assessment survey
  - A LIS educator short survey
  - A competency scan
  - An inventory of training and formal RDM curricula

**PHASE 2**
- **Spring-Summer 2019**
  - Course unit design and development
  - Video recording, implementation of exercises and interactive learn objectives
  - Establish Simmons CE system

**PHASE 3**
- **Fall 2019+**
  - QA tests
  - Usability and UX tests
  - Formal launch of RDMLA on October 7, 2019
  - Simmons SLIS CE credit issuance (start January 2020)
Future Plans

- Complete usability testing sessions and quick fixes recommendations
- Establish Simmons CE Program (to be available January 2020)
- Add new units to RDMLA
  - Data Ethics
  - Data Copyright
  - Data Curation and Archiving
- Explore international partnerships for translations for multilingual versions of RDMLA
- Use learning analytics to improve and enhance RDMLA
Why is RDMLA Valuable?

- **For Research Leaders:**
  - Understand the role of librarians in supporting RDM planning, and execution for their grants/projects (Unit 2: Roles of the Research Team).
  - Involve librarians in data curation, archiving, and reuse.

- **For Librarians:**
  - An extremely valuable resource for current library workforce to tool or retool on RDM practices and projects.

- **For LIS Educators:**
  - A valuable source for teaching RDM courses in LIS schools or programs.
Feedback

P060 from Usability Testing
Lecturer on Information Sciences, University of Pretoria, South Africa

“I would like to commend you (and the others involved) on a really excellent and much needed course on RDM. I felt that it was well organized, and a good blend of different types of materials (e.g. video, text, exercises). I am looking forward to doing the rest of the modules.”

From Email Exchange
Associate Professor, School of Library and Information Studies, University of Alberta, Canada

“I wanted to thank you so much for your work on this project and making it available as an open education resource. I am going to enroll immediately. I also teach the Introduction to Research in LIS course and the Seminar in Advanced Research and will definitely either encourage students to use this resource, build a small assignment using it, or both. This is wonderful.”
Success Metrics to Date

October 7, 2019 to December 4, 2019

- Active Students: 1,564
- Discussion Forum Posts: 485
- Badges Awarded: 770
- Course Completion Badges: 43
Where In the World Are RDMLA Students?

Numbers based off of 1427 student IP addresses

North America: 43%
- 619 students
- 7 countries

Central America: .5%
- 5 students
- 4 countries

South America: 5%
- 78 students
- 8 countries

Africa: 8%
- 112 students
- 21 countries

Middle East: 4%
- 64 students
- 11 countries

Asia: 15%
- 208 students
- 25 countries

Europe: 18%
- 257 students
- 33 countries

Oceania: 6%
- 84 students
- 4 countries
Comments by Usability Participants

Positive Reactions to RDMLA

- P027: “I saw Tufts and Harvard and Simmons, Boston University, of course, Elsevier ... There were several very prestigious organizations involved. It makes me feel like this is a really nice joint effort.”

- P031: “It’s self paced ... I like the course objectives, I like that it’s on there because now I’m getting more of like, alright this is what we’re going to be talking about.”

Usability Comments

- P001: “It looks very nice and very simple. I like the layout of the individual units ... It’s very clearly laid out.”

- P004: “The quiz automatic grading does not provide explanation for why certain option selected is wrong.”

- P031: “I will say, now that I’m here [Unit Overview page], I wish there was some kind of overarching hierarchy tree, on the side of the page. You know if I were coming back ... I know on the front page you can like skip around.”
RDMLA Development: Recipe for Success

Collaboration
Fostering additional collaboration

Partnership
Unique and strong partnership with:
  Practitioners
  Education
  Industry

Community of Practice
Develop a Community of Practice in RDM

Instructional Designer
Collaboration with Instructional Designer

Team
Motivated and dedicated team
Check out the Course: rdmla.github.io

Spread the word!

Questions?