

MiALA Data Literacy Boot Camp

Session Title: Finding your niche: Exploring the data ecosystem as an instruction librarian

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Activity: Map users' needs to your skills

User	How does the user interact with data?	What is the user's role? (Consumer/ Generator/ Analyzer)	What does the user need?	What is the librarian's role? (Steward/ Facilitator/ Educator)	How can I help? (Know how/ Can learn/ Will refer)
Undergraduate Students					
Graduate Students & Student Researchers					
Instructors & teaching faculty					
Researchers					

Sample lessons designed for different roles of data users

<p>Lesson for Data Consumers: Evaluating Infographics</p> <p>Prep level: Moderate Time: ~2 hours class time Audience: 1st and 2nd year undergraduates Students will:</p> <ul style="list-style-type: none"> - Evaluate the reliability of data visualizations - Discuss common fallacies in data representations - Try to locate original data <p>Materials: Printed infographics with varying reliability; handouts of CRAAP test or other evaluative tool</p> <p>Activity: Have students work in groups to evaluate published infographics using the CRAAP test.</p> <p>Adapted from: https://works.bepress.com/dana-statton/13/</p>	<p>Lesson for Data Analyzers: Water Datathon</p> <p>Prep level: High Time: ~6 hours total Audience: Students, Community members, etc. Students will:</p> <ul style="list-style-type: none"> - Construct research questions based on available data - Present analyses and questions for further research <p>Materials: Computers with internet; local water quality data (watersheds and ICPSR); snacks; prizes</p> <p>Activity: Allow groups of 2-4 students to explore datasets and create research questions. Prepare & provide brief demonstrations of technological tools for analysis & visualizations (spreadsheet functions, map software, etc.). Have students present brief 5-10 minute presentations based on their research questions and analyses. Judge based on rubric.</p> <p>More info: https://guides.emich.edu/datathon</p>	<p>Workshop for Data Generators: Organizing Data</p> <p>Prep level: Low Time: ~2 hours of lab time Audience: REU Students (or other student researchers) Students will:</p> <ul style="list-style-type: none"> - Identify how their data may be used in future research - Organize their data - Author metadata in preparation for sharing <p>Materials: Computer lab & data from student research</p> <p>Activity: Hold an open discussion to explore why data sharing is important. Provide an example of a publicly available dataset and metadata. Workshop with students to evaluate how their data tables are set up and the content of their labels. Give students forms for submitting data set metadata in an institutional repository.</p>
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- What role do most of your students play in the data ecosystem?
- How could you adapt the sample activities to fit with your subject area disciplines?
- How could you adapt the sample lessons to suit additional instructional constraints (time, technology, etc.)?
- What are some data literacy lessons you have designed or taught?