



AI-Powered Learning: Blending AI with Active Learning in the Information Literacy Classroom

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Abstract

The ACRL Framework for Information Literacy in Higher Education was a response to more voluminous and less reliable information. Existing lesson plans for teaching the ACRL Framework are readily transferable to teaching research and AI in a world where online content is written by AI, hallucinations and all. This presentation steps through existing published lesson plans for teaching the frames (with citations and links!), and applies these lesson plans to teaching AI.

ACRL Framework: A Long History, Lots of Lesson Plans

- Predecessor: Information Literacy Competency Standards for Higher Education (2000)
- Adopted in 2016
- Set up dispositions for students: information literacy as a process



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Misinformation, content farms, and artificial intelligence

The ACRL Framework was designed to address voluminous information and misinformation: “[T]he rapidly changing higher education environment, along with the dynamic and often uncertain information ecosystem in which all of us work and live, require new attention to be focused on foundational ideas about that ecosystem.” (ACRL, 2016, 7).



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Cookbooks & Toolboxes = Lesson Plans Galore



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ACRL | LibGuides | ACRL Framework for Information Literacy Toolkit | Toolkit

ACRL Framework for Information Literacy Toolkit

Search This Guide Search

Toolkit Finding Time to Engage the Framework The Framework's Structure Foundations of the Framework Strategies for Using the Framework

Welcome Using the Toolkit Components ACRL Resources

The ACRL Framework for Information Literacy Toolkit was initially launched in 2017 by the ACRL Framework for Information Literacy Advisory Board to support professional use and understanding of the Framework.

The Framework Toolkit is intended as a freely available professional development resource that can be used and adapted by both individuals and groups in order to foster understanding and use of the ACRL Framework for Information Literacy for Higher Education.

You can dip into these materials on your own, set a regular time to explore them with a colleague, schedule a brown bag session with your group, or choose another approach that suits your needs. All materials that are prepared for and directly part of the toolkit are made available under a Creative Commons Attribution-NonCommercial (CC-BY-NC) license.

Want to hear what other librarians think about the Framework? Take a look at the ACRL's Spotlight on Scholarship series.

Looking for lesson plans and instructional materials to use in your classroom? Check out the ACRL Framework for Information Literacy Sandbox.

Essential Links
ACRL Framework for Information Literacy for Higher Education

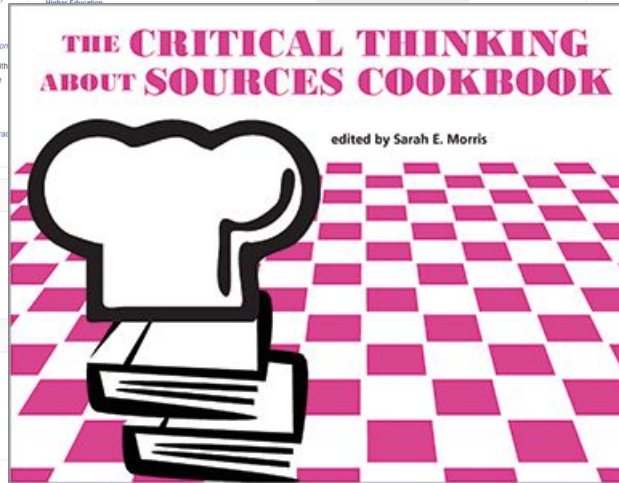
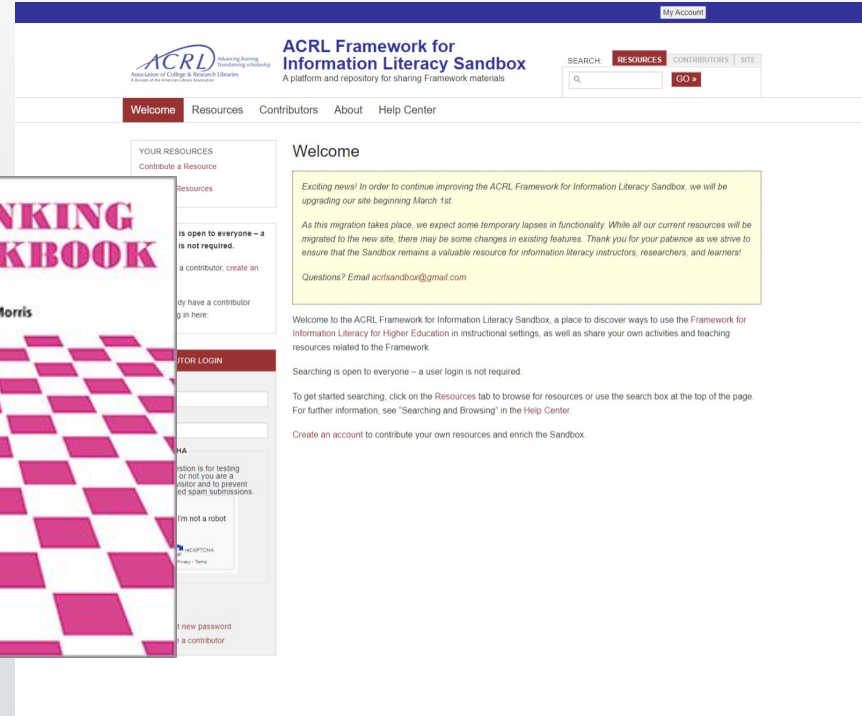
Finding Time to Engage the Framework	The Framework's Structure
	
Foundations of the Framework	Strategies for Using the Framework
	

News Upcoming Events

- RSS Feed Error
- Feed

Last Updated: Jun 11, 2019 11:29 AM | URL: <https://libguides.com/framework/toolkit> | Print Page

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ACRL Framework for Information Literacy Sandbox

A platform and repository for sharing Framework materials

SEARCH RESOURCES CONTRIBUTORS SITE

GO

Welcome Resources Contributors About Help Center

My Account

YOUR RESOURCES
Contribute a Resource

Resources

is open to everyone – a user login is not required.

to be a contributor, create an account

you already have a contributor account, log in here:

FOR LOGIN

OR

HA

ation is for testing or not you are a contributor and to prevent spam submissions

I'm not a robot

Log in with OpenID

Log in with Facebook

I forgot my password

Log in as a contributor

Welcome

Exciting news! In order to continue improving the ACRL Framework for Information Literacy Sandbox, we will be upgrading our site beginning March 1st.

As this migration takes place, we expect some temporary lapses in functionality. While all our current resources will be migrated to the new site, there may be some changes in existing features. Thank you for your patience as we strive to ensure that the Sandbox remains a valuable resource for information literacy instructors, researchers, and learners!

Questions? Email acrlsandbox@gmail.com

Welcome to the ACRL Framework for Information Literacy Sandbox, a place to discover ways to use the Framework for Information Literacy for Higher Education in instructional settings, as well as share your own activities and teaching resources related to the Framework.

Searching is open to everyone – a user login is not required.

To get started searching, click on the Resources tab to browse for resources or use the search box at the top of the page. For further information, see "Searching and Browsing" in the Help Center.

Create an account to contribute your own resources and enrich the Sandbox.

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ALA American Library Association

Strategies for teaching artificial intelligence in the classroom

1. Acceptance: AI is here to stay - 1956
2. Identify why and how students are likely to use AI in your classroom
3. Deploy active learning activities to encourage the ethical use of AI
4. Use HuggingChat: Does not require login




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Hugging Chat

 **HuggingChat** v0.7.0

Making the community's best AI chat models available to everyone.

Current Model

 **mistralai/Mixtral-8x7B-Instruct-v0.1**



[↗ Model page](#)

[🌐 Website](#)

Examples

Write an email from bullet list

Code a snake game

Assist in a task

Search web 

Ask anything 

Model: mistralai/Mixtral-8x7B-Instruct-v0.1 · Generated content may be inaccurate or false.

Authority is Constructed & Contextual & Information Creation as a Process

- ZODIAC Test (Reagan, 2024a).
- Hidden Layer: Intellectual Privacy and Generative AI (Hartman-Caverly, 2023).
- Card games to teach how machine learning algorithms work (Bell & Talboom, 2023)



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Searching as Strategic Exploration & Research as Inquiry

- Search tools comparison (Fitzgibbons, 2023).
- Teaching prompt engineering with an analogy to shooting pool (Nesbitt & Stilwell, 2023).
- The Case of the Unsolved Hallucination (Reagan, 2024a).



Artificial intelligence generated images of hands made by Dall-E 2 and featuring hallucinated extra fingers.

Scholarship as Conversation & Information Has Value

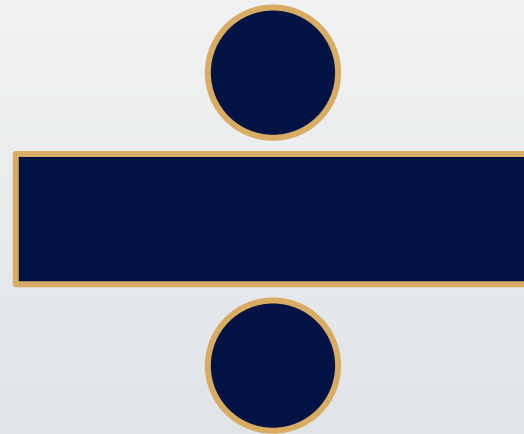
- AI Prompt Engineering (Reagan, 2024d)
- Building Confidence in using AI to Generate Citations/Humans v. AI (Reagan, 2024b)
- AI & Personal Information: An Investigation(Reagan, 2024c)



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Think-Pair-Share

Think of a lesson plan you commonly implement in your IL classroom. Think of strategies to connect the lesson to AI literacy. Bonus: How might you incorporate AI into the lesson?

References

- Association of College and Research Libraries (ACRL) (2016). ACRL Framework for information literacy for higher education. Chicago, IL: American Library Association. <https://www.ala.org/acrl/sites/ala.org/acrl/files/content/issues/infolit/framework1.pdf>
- Bell, M. and Talboom, L. (2023). More Than Just Algorithms: A Machine Learning Club for Information Specialists. In *The Rise of AI: Implications and Applications of Artificial Intelligence in Academic Libraries* (pp. 61-70). Association of College and Research Libraries.
- Fitzgibbons, M. (2023). Concordia University Library, April 2023. Search tools comparison (jigsaw group activity). ACRL Sandbox. <https://sandbox.acrl.org/library-collection/search-tool-comparison-activity>
- Fonseca, T., & King, M. (2000). Incorporating the Internet into Traditional Library Instruction. *Computers in Libraries*, 20(2), 38.
- Hartman-Caverly, S. (2023). Hidden layer: Intellectual privacy and generative AI. ACRL Sandbox. https://sandbox.acrl.org/system/tdf/resources/HiddenLayer_LessonPlan_CCBYSA_HartmanCaverly_2023.pdf
- Hugging Face. (n.d.). *HuggingChat*. Retrieved March 15, 2024 from. <https://huggingface.co/chat/>
- Nesbitt, T. and Stilwell, K. (2023, October 4-6). AI and the Meta Poster [Conference presentation]. Georgia Library Conference, Athens, GA, United States. https://www.canva.com/design/DAFtJUH6kXU/IBErAzVEjP_thvjN5ZoQQow/view
- Reagan, K. (2024a). The ZODIAC Test. <https://georgiasouthern.libguides.com/informationliteracyai>
- Reagan, K. (2024b). The Unsolved Case of the Hallucination. <https://sandbox.acrl.org>
<https://georgiasouthern.libguides.com/informationliteracyai>
- Reagan, K. (2024c). Building citations with AI. <https://georgiasouthern.libguides.com/informationliteracyai>
- Reagan, K. (2024d). AI & Personal Information Commodification. <https://georgiasouthern.libguides.com/informationliteracyai>
- Reagan, K. (2024e). Engineering AI prompts to develop keywords. <https://georgiasouthern.libguides.com/informationliteracyai>

Continuing the Conversation

We are interested in collecting more lesson plans using the ACRL Framework, which are easily adaptable to teaching artificial intelligence. If you have any to share, feel free to email us at kreagan@georgiasouthern.edu or wrandtke@georgiasouthern.edu to share.



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