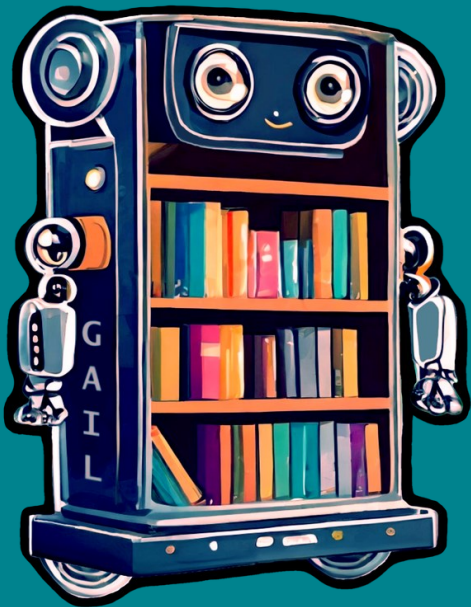


GAIL 2024

GAIL CONFERENCE 2024

GENERATIVE AI IN LIBRARIES

Whose Information Is It?
Information Literacy Through the
Lens of AI



Elle Dimopoulos
College of Marin
June [11–13], 2024

INTRODUCTION

A very brief introduction, grounding and the sociology of information behavior

Faculty and student framing:

PII harms and risks

Bias and equity in the data pipeline

Accessibility and assistive communication

Ai tools as extensions not replacements

Co-creation in the research and writing process

IT'S GETTIER O'CLOCK

Gettier Problem

Expectations of a reasonable person that has a belief that the clock is working. One could infer that from past experience that the clock is accurate.

One could have a justified true belief that the clock is working but it could also be broken. One could also be lucky that the clock is correct.

When is a probabilistic guess made from a dataset, knowledge?

What does an Ai model, app or api know? What do we “mean” when we say we know something?

... AND

So What?

Tools can extend our reach but they can also enable users to “do” without “knowing”.

... KNOWING IS HALF THE BATTLE

Depending on the model, weights and use case, Ai is fantastic at probabilistic compute and even sentiment analysis.

Ai are usually good at:

Making lists and sorting data (anyone fancy a dip into a data lake)

Parallel processing and raw compute

People are usually good at:

Meaning making through context about the world and lived experiences

Communication and transmission of knowledge models/values

"FREE AS IN SPEECH" OR "FREE AS IN PIZZA"

Abbreviated list of things that make you go hmmmmm

Is there a paid option because if it's free, you are the product.

Is it easy and secure to make, manage and delete your account/data? Cancelling should not give you flashbacks to past gym memberships.

Where is the data located and who are the partners they are sharing it with? Is that information easily accessible in their privacy policy?

Opt-in and opt-out?

Check your integrations: Microsoft schools can, but not always, default to protected mode for ChatGPT (lite).

Partnership and data broker loopholes.

GIGO bias and exploitative training data

AURA AND AUTHENTICITY

Going back to our conceptual grounding for a minute

Consider who and how the tool is thinking for you? Are you the product or the process?

Let's say we are taking a trip to a museum or an art gallery.

Maybe we see a glass display case with a painting, sculpture or even a helmet from WWI. It's located in a side hallway or we have a direct link to it virtually. The exhibit card displays just the title...

Now we are visiting a different collection on a separate trip and when we see the work it has a title, a bit of background, is situated inside of a larger collection and has a personal story that you can hear by scanning a QR code or asking a docent for a tour.

IS IT LIVE OR IS IT MEMOREX

Later we discover that the output of these works were the same

Perhaps the museums were in competition with each other and the curators came down with a critical case of fomo..

In any case, they were reproduced, 3D printed, digitally identical, etc.

What's the difference?

QUICK BREAK

Location, location, location,
Iterate, Iterate, Iterate!

Dall-E II Prompt for fancy OER
textbook with text and gradient
background



WHAT



AI



THINKS



OER



LOOKS



LIKE

ACCESS AND ACCESSIBILITY

The pace and progress of accessible technology has grown exponentially in the last few years.

Captions, meeting notetakers, study guide makers, English as a second language learner support, screen-readers, navigation, dialogue and audio description, etc..

It is also good for facilitating communication with neurospicy students and community members.



goblin.tools

Magic ToDo

Formalizer

Judge

Professor

Estimator

Compiler

Chef

 Patreon

The Judge

Am I misreading the tone of this?

To whom it may concern,

I think your website is suboptimal and you wear silly hats.



Judge

Suggest a response



The text comes across as negative and slightly confrontational. The phrase "suboptimal" suggests a lack of satisfaction or disappointment with the website, while the comment about wearing silly hats could be seen as mocking or disrespectful. Overall, the tone of the message is critical and potentially dismissive.

SUMMARIZING IS A SPECTRUM

Lecture and Discussions

Context, Nuance and
Meaning Making

Talking “Story”

The Talking Heads Doc,

Poetry or Literary

Fiction

CV as Autobiography?

summarize.tech

[Login](#) [Purchase Premium](#)

summarize.tech: AI-powered video summaries

Get a summary of any long YouTube video, like a lecture, live event or a government meeting. Powered by AI.

Try a few examples:

- [State of the Union address](#)
- [San Francisco School Board meeting](#)
- [Theory of Relativity lecture at Stanford](#)
- [Steve Vai documentary](#)
- [Data Orchestration tech talk](#)
- [All-In podcast](#)

Or, you can see some [recently summarized videos](#).

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LM EASY BUTTON

Google NotebookLM

Quick, private or free
(pick one)

Availability and
accessibility

Ai wild west (with a
kevlar vest)

Other apps, apis and
extensions in the space

The screenshot displays the Google NotebookLM interface. On the left, the 'Sources' panel is visible, featuring a privacy notice: 'Your personal data is never used to train NotebookLM. To troubleshoot, address abuse, or make improvements based on your feedback, human reviewers may review your queries, uploads, and the model's responses. Please refrain from submitting any information you would not want a human reviewer to see.' To the right of this notice are two blue checkmark icons. The main content area on the right is titled 'Strategies for Conducting Literary Research, 2e'. Below this title, there are buttons for 'Add note' and 'Select all'. A 'Saved Response' card is shown, containing a 'New Saved Note' section and a 'Chapter 1 Study Guide' section. The study guide lists objectives: 'Before beginning research, make sure you understand the assignment [1].', 'Concentrate on the issues and relevance instead of broad themes [1].', and 'Speak with subject-matter experts in'. At the bottom of the card, a pagination bar shows '10 citations' and numbered buttons from 1 to 6.

NotebookLM EXPERIMENTAL

Sources

Your personal data is never used to train NotebookLM. To troubleshoot, address abuse, or make improvements based on your feedback, human reviewers may review your queries, uploads, and the model's responses. Please refrain from submitting any information you would not want a human reviewer to see.

Strategies for Conducting Literary Research, 2e

Add note Select all

Saved Response

New Saved Note

Chapter 1 Study Guide

Chapter Objectives:

- Before beginning research, make sure you **understand the assignment** [1].
- Concentrate on the **issues** and **relevance** instead of broad themes [1].
- Speak with subject-matter experts in

10 citations 1 2 3 4 5 6

NOTEBOOK LM CONT.

Prompt tutorials and familiar
UX

Custom dialogic chatbots,
source selection and
transparency

Use in combination with other
tools like

www.semanticscholar.org for
lateral reading

Strategies-for-Conducting-Literary-Research-2e-1694706558.pdf

Source guide

- Beware of straying. Especially in the draft stage, “discussion” and “analysis” can lead you from one intrinsically interesting problem to another, then another, and then ... You may wind up following a garden of forking paths and lose your way. To prevent this, stop periodically while drafting your essay and reread the assignment. Its purposes are likely to become clearer.
- Consider the assignment in relation to previous and upcoming assignments. Ask yourself what is new about the task you’re setting out to do. Instructors often design assignments to build in complexity. Knowing where an assignment falls in this progression can help you concentrate on the specific, fresh challenges at hand.

The Role of Analysis in Research Projects

Research projects should make an argument, which should not be confused with an analysis. An analysis does not necessarily pose any arguments. Any research project must include some analysis, but this analysis must be used to support an interpretive, critical, or historical claim/argument (or to give a creative work some rhetorical agency).

Analytical work will help you better understand a literary text. The goal of analysis is to describe what type a text is, how it functions, what its parts or elements are, and how it achieves its effects. You must do an analysis, but you should not stop there; an analysis is a necessary part of creating an argument. Later in this course, we will discuss how you use analysis to build your arguments.

Key Takeaways

Do Don’t

Understand all key terms and instructions in your assignment.

Start work without a clear idea of what the assignment requires you to do.

Communicate first with your instructor to get clarification and advice about the assignment. Begin by asking other people (not the instructor) to help you understand the assignment.

Strategies for Conducting Literary Research, 2e

as a college student create a detailed study guide for chapter 1 and cite your sources

Chapter 1 Study Guide

Chapter Objectives:

- Before beginning research, make sure you **understand the assignment** 1.
- Concentrate on the **issues and relevance** instead of broad themes 1.
- **Speak with subject-matter experts** in your field as well as your subject librarian 1.
- **Establish benchmarks and take thorough notes** 1.

Understanding the Assignment

- Before starting your research, it’s crucial that you **fully comprehend the assignment** 2 3. **Clarify any unclear terms or procedures with your instructor as soon as you can** 2.
- **Visit the UCF Writing Center and/or the Student Academic Resource Center (SARC) for extra help understanding the assignment** 2.

Key Components for Understanding Assignments:

- **Intended Audience:** Determine the intended audience for your project. If it is **not explicitly stated, assume you are writing for a journal of literary studies or for your peers and literary scholars** 4.
- **Purpose:** Determine the goal of the project 1 5. Is it to convince, inform, or both 6?
- **Type of Research Project:** Establish the **type of research project:** interpretive, critical, historical, or creative 6 7 8.
- **Understanding the Assignment Prompts, Guidelines, and Expectations:** Before beginning your project, become acquainted with all requirements, such as **page length, citation style, and style rules** 9. Your instructor is the best resource for information regarding the research project’s guidelines 9.

Types of Research Projects:

- **Interpretive research projects** offer a fresh viewpoint on a certain piece of literature. 8.
- A **critical research project** evaluates a work of literature using a particular critical lens 8.
- **Historical research projects** examine the historical circumstances surrounding the creation, dissemination, and acceptance of a piece of literature 10.

BECAUSE 11 IS ONE MORE THAN 10

DAN's, injection prompting, deepfakes and role setting

One favorite activity that increases student engagement and co-learning is when I do a live demo of GPT or an Ai “detector” and break it within five minutes. Be sure to ask for consent before asking an audience to participate.

This is where you might see a big shift from a room of passive learners to active learning participants. I can typically see students shift in their chair and pay more attention when they have an “oh, oh no, ah ha” moment.

This is a great reminder that tools are great facilitators of creativity but it is also a poor artist that relies and blames their tools.

LLM vulnerabilities - <https://www.lakera.ai/blog/jailbreaking-large-language-models-guide>

ChatGPT Hacking - <https://www.wired.com/story/chatgpt-jailbreak-generative-ai-hacking>

WHAT'S GO GOT TO DO WITH IT

AlphaGo made history in October 2015 by becoming the first Go program to defeat a professional Go player without a handicap on a full-sized board.

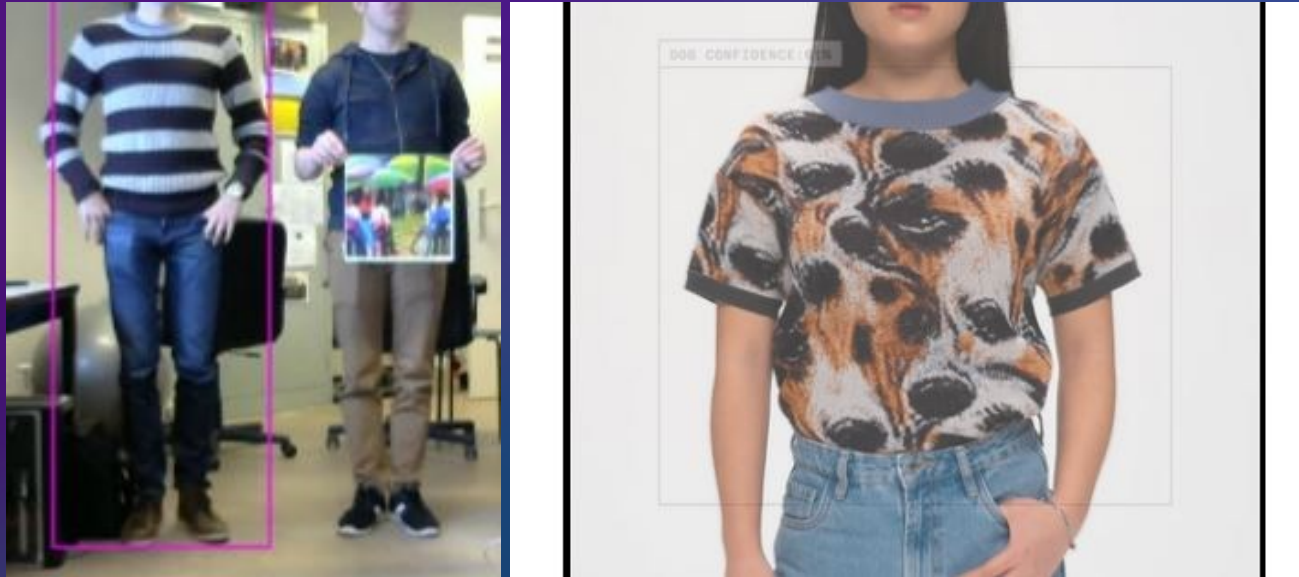
However, this was because the players were trying to beat it like they were playing a human. What they should have done is play it like a computer using a “poisoning” strategy.

Most general models don’t have any context unless they also have been trained via scripting with additional weights and prompting.

This strategy doesn’t work on actual human players because we have knowledge and content about the world and thus have the capacity to bring “meaning making” into our critical thinking processes during “play”. The ranked players never even thought to use this strategy since they would never use it against a human player.

Go Poisoning Paper <https://arxiv.org/abs/2211.00241>

A POISON APPLE A DAY KEEPS AI AWAY



T-shirt design pattern - <https://arxiv.org/abs/1904.08653>

80% non-person top - <https://www.capable.design>

RESOURCES AND READINGS

Anna Mills - <https://www.annarmills.com>

Melanie Mitchell - <https://melaniemitchell.me>

Teaching with AI - by José Antonio Bowen & C Edward Watson

Leon Furze - <https://leonfurze.com/ai-ethics>

Joy Buolamwini - [How I'm fighting bias in algorithms](#)

Linda Zagzebski - The Inescapability of Gettier Problems

Mikhail Bakhtin - <https://literariness.org/2018/01/24/key-theories-of-mikhail-bakhtin>

Walter Benjamin <https://doi.org/10.2307/j.ctv1nzfgns>

Ai Guides for Students and Faculty - <https://cep.barnard.edu/generative-ai-college-classroom>

WAC - <https://wac.colostate.edu/repository/collections/ai-text-generators-and-teaching-writing-starting-points-for-inquiry>

The Algorithmic Justice League - <https://www.ajl.org/about>

MIT Technology Review - <https://www.technologyreview.com/2024/03/04/1089403/large-language-models-amazing-but-nobody-knows-why>

TIPS, TRICKS AND TOOLS

<https://notebooklm.google.com>

<https://hemingwayapp.com>

<https://www.summarize.tech>

<https://www.perplexity.ai>

<https://www.magicschool.ai>

<https://eightify.app>

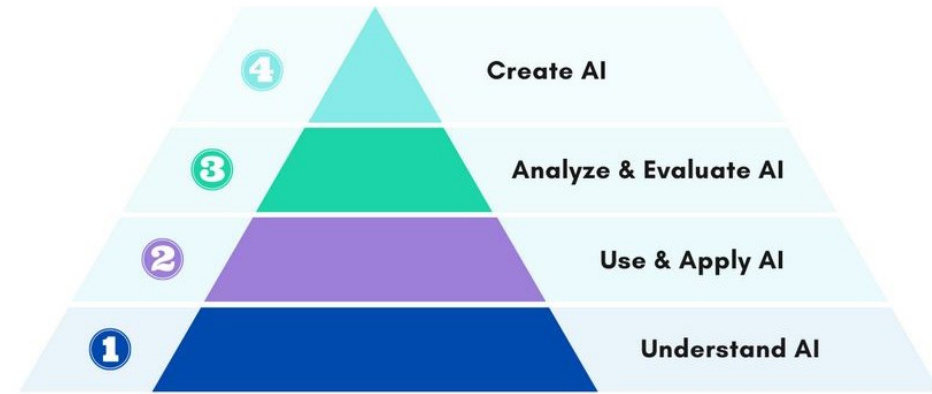
<https://goblin.tools>

<https://keenious.com>

<https://www.databricks.com/blog/2023/04/12/dolly-first-open-commercially-viable-instruction-tuned-llm>

WRAP UP

You can contact me at elliesberlinkey.com for more information, videos and an updated libguide.



The Barnard College pyramid approach to AI literacy.

Melanie Hibbert, Barnard College