



Leveling Up the Research Process with Generative AI

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Introductions

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Learning Objectives

Upon completion of this session, participants will be able to:

- Describe the role of Generative AI in academic research and identify key tools that can be used at various stages of the research process.
- Demonstrate how to use at least one Generative AI tool to support a specific phase of the research process (e.g., from defining an information need to crafting a search strategy).
- Evaluate the potential benefits and limitations of Generative AI tools in scholarly research based on live demonstrations and peer discussion.

The logo graphic consists of two overlapping parallelogram shapes. The top one is blue and the bottom one is light green, both pointing towards the bottom right.

Mentimeter

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“Describe your comfort
level with AI tools?”



AI Education and the Research Process: Search and Revise with AI Assistance



Becoming AI Literate

- Investigate and educate yourself on the capabilities, limitations, and ethical pitfalls of AI tools.
- Use AI to support—not replace—your own thinking and analysis.
- Treat any AI-generated content as needing verification and refinement.

AI Fluency and You

- Practice prompt creation and revising.
- Strategize and Identify the best use cases for individual tools.
- Ensure your adherence to and stay versed of changes in best practices.

Attaining AI Proficiency

- Practice prompt creation and revising.
- Strategize and Identify the best use cases for individual tools.
- Ensure your adherence to and stay versed of changes in best practices.



AI Tool Selection and the Research Process

Planning Your
Research Project

Using Goblin.Tools to
chunk your research tasks
into a streamlined To-Do
list.

Finding and Analyzing
Sources

ResearchRabbit helps
you to visualize citation
networks and discover
related research.

Search Strategies,
Templating, and
Contextualization

Using an LLM such as Copilot or
ChatGPT, can assist in
developing your search strategy
and identifying search terms,
creating templates to organize
your research, and, especially for
our students, it can contextualize
unfamiliar concepts and material
and provide a starting point for
research.



Best Practices for GenAI Research

Be Transparent and Verify

- Verify all citations and facts—AI may fabricate or misrepresent sources.
- Clearly state when and how AI tools were used in your work.

Practice Ethical Use

- Educate yourself on the ethical pitfalls of AI tool use and the limitations of AI tools.
- Don't input sensitive or personal data, especially of others, into public AI tools.

Stay Current, Be Curious

- Keep abreast of new developments in AI technology, tools, and best practices.
- Explore and experiment with different tools and uses.

Critically Evaluate

- Review AI-generated content for accuracy, bias, and relevance.
- Cross-check claims and citations with trusted academic sources.

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“What is your
experience with AI
tools?”





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“What have you used
AI tools for in the past
or what uses would
you like to use AI for?”





GenAI Tools in Action: Tool Demonstration

- Goblin.Tools
- Research Rabbit
- Gemini (Any LLM would be fine to replicate this demonstration)



Thank You for Attending!

Questions?