

## Using AI tools for literature review assessments

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Based on the [Monash literature review guide](#), what are some AI tools that could help at each step? Students should familiarise themselves with Monash University's advice on the [use of artificial intelligence](#) and the importance of maintaining academic integrity.

Rationale for tool selection:

- Free to use
- Uploading PDFs sourced from Monash University Library is not required or encouraged
- Tested and relatively simple to use (instructions provided)

Step	Tool	Notes, 'how to' videos, articles to read
<a href="#">Define your research question</a>	<a href="#">ChatGPT</a> 4o (free) – do not share personal or private data with this tool.	<p>Monash video shows how generative AI can be used to help develop/start research questions <a href="https://www.youtube.com/watch?v=bxnXggNMQYk">https://www.youtube.com/watch?v=bxnXggNMQYk</a> (3.45 mins)</p> <p>Monash Learn HQ website for students - creating effective prompts <a href="https://www.monash.edu/student-academic-success/build-digital-capabilities/create-online/creating-effective-prompts-when-using-artificial-intelligence">https://www.monash.edu/student-academic-success/build-digital-capabilities/create-online/creating-effective-prompts-when-using-artificial-intelligence</a></p> <p>Master the Perfect ChatGPT Prompt Formula (in just 8 minutes)! <a href="https://www.youtube.com/watch?v=jC4v5AS4RIM">https://www.youtube.com/watch?v=jC4v5AS4RIM</a> (8.29 mins)</p>
<a href="#">Identify relevant search terms from your research question</a> <ul style="list-style-type: none"><li>• Do some scoping searches for relevant articles</li></ul>	<a href="#">Elicit</a> (free) – students should not upload pdfs into this AI tool as it will keep and use this data. It would be a breach of	Students can ask the Elicit AI assistant their research question and it will produce a summary of the top 4 papers. Add columns to view specific elements of the articles. Students should find and read full text of relevant articles.

<ul style="list-style-type: none"> <li>• Develop a 'gold set' of target papers</li> <li>• Create a concept map</li> <li>• Do some text mining to find more terms for your search strategy</li> </ul>	<p>licence terms and could infringe copyright.</p> <p><b>Dimensions Research GPT</b> – find in Explore GPTs in your ChatGPT instance or log in to the <a href="#">Dimensions database</a> via Monash' A-Z database list and go to Apps</p> <p><a href="#">Connected Papers</a> (Free version limited to 5 graphs per month)</p> <p>Text mining</p>	<p>About Elicit - <a href="https://ought.org/elicit">https://ought.org/elicit</a></p> <p>Research Masterminds video <a href="https://www.youtube.com/watch?v=Vp069zTEPoU&amp;t=0s">https://www.youtube.com/watch?v=Vp069zTEPoU&amp;t=0s</a> (5.59 mins)</p> <p><b>NB.</b> Elicit no longer limits use with credits as of August 2024</p> <p>Digital Science video <a href="https://www.digital-science.com/news/dimensions-research-gpt/">https://www.digital-science.com/news/dimensions-research-gpt/</a> (0.39 secs)</p> <p>Information about Dimensions Research GPT <a href="https://www.dimensions.ai/products/all-products/dimensions-research-gpt/">https://www.dimensions.ai/products/all-products/dimensions-research-gpt/</a></p> <p>Explanatory video for using Connected Papers to scope for relevant articles <a href="https://youtu.be/U0KZD6cnD8?si=Si8-xfBqLWDJ2D3">https://youtu.be/U0KZD6cnD8?si=Si8-xfBqLWDJ2D3</a> (4.17 mins)</p> <p>University of Melbourne <a href="#">library guide</a> lists a number of text mining tools that work with the PubMed database.</p> <p>And <a href="#">tools</a> that can be used for any discipline.</p>
<p>Develop your search plan</p> <ul style="list-style-type: none"> <li>• <a href="#">Boolean searching</a></li> <li>• Truncation/wildcards etc.</li> </ul>	<p><a href="#">ChatGPT</a> 4o – <b>limited usability</b></p> <p>Monash Library video – how to create an <a href="#">Ovid Medline search</a> (11.06 mins) – <b>recommended</b> [sign in with Monash Okta, not Panopto]</p>	<p><i>Is it safe to use ChatGPT to write your search?</i> University of Toronto Libraries <a href="#">guide</a> – includes infographic and example prompts.</p> <p>Guimarães, N. S., Joviano-Santos, J. V., Reis, M. G., &amp; Chaves, R. R. M. (2024). Development of search strategies for systematic reviews in health using ChatGPT: A critical analysis. <i>Journal of Translational Medicine</i>, 22(1). <a href="https://doi.org/10.1186/s12967-023-04371-5">https://doi.org/10.1186/s12967-023-04371-5</a></p>

<p>Test and refine your search</p> <ul style="list-style-type: none"> <li>• Test on the 'gold set' – check results for these key articles</li> <li>• Apply limits/filters</li> </ul>		<p>Monash Library Systematic Review <a href="#">guide</a> covers this step for testing your search against your 'gold set' articles.</p> <p><a href="#">Apply search limits</a> to refine your search strategy. This can make the results more manageable for the assignment.</p>
<p><a href="#">Select relevant databases and run searches</a></p>		<p>Choose 2 – 3 databases which is sufficient for student literature reviews. <a href="#">Databases relevant to Medicine, Nursing and Health Sciences</a> can be further limited to disciplines.</p> <p>Use Monash Library's <a href="#">database search tips</a> to create the correct syntax for your search strategies.</p>
<p><a href="#">Document and manage search results</a></p> <ul style="list-style-type: none"> <li>• Save searches</li> <li>• EndNote, Zotero</li> </ul>	<p><a href="#">EndNote</a> guide</p> <p><a href="#">Zotero</a> guide</p>	<p>Use a reference management tool to organise your references and write up your review. Both tools are compatible with Word.</p>

## Other useful resources:

- Charles Sturt University Library Open Educational Resource (OER) *Digital Skills: Artificial Intelligence* <https://opentext.csu.edu.au/digitalskillsworkwithinformation/> written for students introducing AI tools and using it for study purposes.
- Also *Using AI tools at university* <https://opentext.csu.edu.au/usingai/> Charles Sturt University Library Open Educational Resource (OER)