

Choose a Large Language Model and read advice

Which LLMs have specific examples on "Specialised Academic discourse"?

Check Sources?

NB: Agent response style can be customized in prompts or generally in settings
<https://help.openai.com/en/articles/8096356-custom-instructions-for-chatgpt>



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Find Tasks and Prompts

Focussing on Research Articles: Which specific LLM tasks can you think of?
Tasks for other Specialised Discourse Genres?

Task 1: Key concepts/technical terms in comparison

- 1) Select a key concept/technical term from your academic field and ask two LLMs (e.g. Perplexity, Gemini).
- 2) Compare their results (incl. sources!).
- 3) Compare LLM results with Wikipedia and (free) traditional (online) resources (e.g. Oxford English Dictionary, Longman)

Task 2: LLM abstract

- 1) Choose a title that you would like to publish in an English online journal in your research field.
- 2) Use two LLMs (e.g. ChatGPT, Gemini, Claude 3) to generate an abstract and 5 keywords 3 times.
How do you evaluate the results?

Task 3: LLM outline and sections

- 1) Select a title that you would like to publish in an English online journal in your research field.
- 2) Use two LLMs (e.g. ChatGPT, Gemini, Claude 3) to generate an outline and keywords 3 times.
- 3) Take the suggestions as section titles and ask the LLM to an academic article.

Task 4: LLM title and keywords

- 1) Select an abstract from an English online journal in your research field.
- 2) Use two LLMs (e.g. GPT4o, Gemini, Claude 3) to generate a title and keywords 3 times.
How do you evaluate the results?

Task 5: "Optimise" specific, academic style

- 1) Select an introductory paragraph from your own writing or from an English online journal article in your research field.
- 2) Use two LLMs (e.g. DeepL Write and PaperPal) to "optimise" your text.
How do you evaluate the results? (anything "overdone"?)

Task 7: Acronym for AI project

- 1) "Suggest an acronym for my project on using Large Language Models to improve my research writing".
- 2) Vary the prompt to achieve more memorable results.

Conclusions

- Which tasks were completed best? easiest?
- Which tasks could not yet? be completed?
- What are specific features of your LLM?
- Which LLM performed best for your purposes?

Task 6: AI detection and translations

- 1) Select an abstract from an English online journal in your research field.
- 2) Use an AI detection tool (e.g. GPTzero) to calculate the probability of AI usage.
- 3) Use a LLM (e.g. ChatGPT) to translate the abstract into your mother tongue.
How do you evaluate the result? Can you find better alternatives?
- 4) Use a different LLM (e.g. Gemini) to translate the abstract (back) into English.
How do you evaluate the result? What are the differences between the original and the back-translated version?
- 5) Use an AI detection tool (e.g. GPTzero) to calculate the probability of AI usage of the translated version. Any differences?

Task 8: Summarise a Research Article

- 1) Choose an article of your own or a research article that you know really well and submit it together with the prompt to provide a summary.
(Do not submit the abstract, nor the summary in the conclusion.)
- 2) Any limitations?
Test whether you can submit as URL or pdf or (full?) plain text?