Instructions for the Use of Artificial Intelligence (AI)

Tools of artificial intelligence (AI) such as DeepL, Chat GPT, or Research Rabbit can be inspiring, informative, and useful. However, the content is generated by machines trained on non-transparent data. AI reflects common stereotypes or outdated information. It does not fully capture the nuances and complexity of human communication and is incapable of making ethical judgments.

For these reasons, you should use AI cautiously when writing your thesis, as you are ultimately responsible for the content of your work. These guidelines aim to provide clarity on how you may use AI in your written assignments and how you must acknowledge its use. If you do not use AI, you must also explicitly confirm this

When is the use of AI prohibited?

We place importance on independently crafting your work. Creating and copying parts of a thesis generated by AI is not allowed. This includes tasks such as creating an abstract, a theory chapter, or parts thereof. You must be capable of substantiating your statements with sources and standing by the accuracy and validity of your information.

We also value independent analyses and interpretations. The generation or presentation of results using AI is not permissible. This is due to serious concerns regarding the authenticity, integrity, and validity of the generated results, as well as potential violations of data rights and confidentiality guarantees. Therefore, data must not be loaded into AI tools for analytical purposes.

All data to be analyzed must be collected either independently or by third parties with transparent documentation of the process. Generating data using AI constitutes data fabrication and, therefore, is considered a serious academic misconduct that will be penalized.

Exceptions can be made in consultation with the supervisor, provided that AI itself is the subject of investigation (e.g., in research on whether AI makes less biased recruitment decisions than humans).

When is the use of AI allowed?

The use of AI for editing (including translation) of your work to enhance language and readability is permitted. In this context, AI is considered equivalent to common writing tools for text correction. This means that the material primarily created by you is used and revised, and no entirely new content is generated. You remain responsible for the content and must understand and review the text edited by AI accordingly

Furthermore, you may use generative AI technologies for idea generation or brainstorming. You may also use AI to assist you in programming your analysis codes, such as fixing errors in your code. In all these cases, however, you must specify how you have used AI. Additionally, you must critically reflect on the use of AI and indicate what steps you have taken to minimize potential risks and verify the accuracy of the information incorporated.

How do you disclose the use of AI / How do you confirm that you have not used AI?

The use of AI-generated content without disclosure constitutes a violation of academic integrity and may result in consequences for academic misconduct.

At the end of your work, you must declare the use of AI in an appendix following the references and confirm that you take responsibility for the content of the work. For all AI tools used, you must provide the following information:

- Name of the tool/service,
- Purpose of use (including the prompt where applicable),
- Measures taken to verify the content generated by AI.

If you have not used AI, you should also indicate this. An example can be found in the appendix of this guide.

How do I find AI tools and services?

For literature searches, we recommend primarily using traditional search methods, such as:

- Google Scholar – An intuitive and reliable search engine for academic literature.
- Web of Sience – A user interface for searching interdisciplinary academic literature and citation databases.
- ZHB Luzern – The library directory of the University of Lucerne, which also provides access to academic literature.

Through these search aids, you can look for AI tools and services for various purposes:

- https://aitoolsdirectory.com/
- https://www.futuretools.io/

Do you have any further questions?

If you have uncertainties or additional questions regarding the use of AI, please contact your thesis supervisor.

Appendix:
Declaration of the Use of Artificial Intelligence (AI)

> **If you have used AI, you must disclose this** by providing the names of the tools/services, their respective purposes, and a discussion of the measures taken to verify the content generated by AI. **An example** of how you can mention the use of AI in your work could be as follows:

In addition to conventional library research, I used ChatGPT to gain a better understanding of the topic and to generate new search terms for the literature search.[1] The AI results suggested that substance abuse is also a form of deviance. Through a literature search on Google Scholar (search term "substance abuse" AND "deviance") and consultation of research literature, I verified that substance abuse falls within the understanding of deviance. Consequently, I also referenced articles on substance abuse in the workplace in my work.

During data analysis in R Studio, I repeatedly encountered an error message that I could not interpret. I used ChatGPT to find out how to resolve the error.[2] It turned out that the error occurred due to missing values in the dataset. After consulting the original data, I found that there were indeed some observations with missing values for my key variable "Deviance." I removed these observations and documented the listwise deletion in the methodology section. Afterward, my code ran.

AI-based spelling corrections and language improvements were used throughout the writing of this paper (Grammarly, DeepL). To ensure that the original meaning of the content was not altered and that the content is accurate, I proofread everything carefully and corrected where necessary.

I confirm that I have used AI with necessary care and caution, fully disclosed the use of AI, and take full responsibility for the content of this paper.

Prompts

[1] ChatGPT, OpenAI, Sep. 9, 2023. Promt: "What behavior typically falls under deviance?"

[2] ChatGPT, OpenAI, Sep. 12, 2023. Prompt "How do I fix the error in a regression with R: Error in { : task 5 failed - "0 (non-NA) cases?".

[**Note:** The citation follows the format: Name of the tool, Publisher of the tool, Access Date, Prompt]

> **If you have not used AI,** you can use the following wording:

I hereby confirm that I have created this thesis without any assistance from artificial intelligence.