Uni Scientific Writing Notes

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Uni Scientific Writing Notes





Contributing

These study materials are heavily based on professor Charzinski's "Anleitung zum wissenschaftlichen Arbeiten" lecture at HdM Stuttgart.

Found an error or have a suggestion? Please open an issue on GitHub (github.com/pojntfx/uni-sciwriting-notes):



Figure 1: QR code to source repository

If you like the study materials, a GitHub star is always appreciated



License



Figure 2: AGPL-3.0 license badge

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Organization

- Primarily based on the inverted classroom principle
- Sent files should not contain metadata on person-specific info (make pseudonymous)
- Paper must be sent in by 2022-01-09
- Notes must be sent in by 2022-02-27
- Paper may be in German or English



Overview

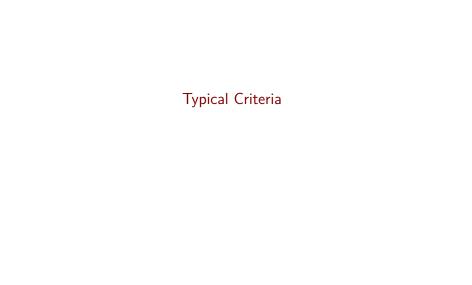
- 1. What is the scientific method
- 2. Formulating scientific questions
- 3. Designing experiments
- 4. Analyzing experiments
- 5. Planing scientific papers
- 6. Researching topics and staying up-to-date
 - $\textbf{6.1} \;\; \mathsf{Finding} \; \mathsf{papers} \to \mathsf{Sci}\text{-}\mathsf{Hub}$
 - 6.2 Analyzing papers
 - 6.3 Referencing papers
- 7. Writing a scientific paper

What is the Scientific Method?



Writing Style

- Structure should not follow the timeline research, but the semantic structure of the discovery
- No rhetorical questions
- No judgmental formulations
- Sentences should be able to stand on their own; reference people and things by their name, not implicit references
- Do not use the present tense when referring to past events, even if it is popular in journalism
- Do not use metaphors which are highly imprecise, even if they are common among technical people
- "I" should not be used in texts
- Summaries should be about the effect of the research on the subject, not the author's view on the subject
- ➤ The "motivation" at the start of the paper should not be the personal factors, but prior pointers



Typical Criteria

- Complexity of the theme
- ▶ Amount of personal research
- Quality of the content
- Depth of research
- Selection of sources
- ▶ Implementation of prior knowledge
- Structure of the paper
- Visual style (used fonts, formatting etc.)
- Quote style (standardized quotes)