

Uni Scientific Writing Notes

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Contributing

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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/pojectfx/uni-sciwriting-notes):



Figure 1: QR code to source repository

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

License

License



Figure 2: AGPL-3.0 license badge

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Organization

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

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
 - 6.1 Finding papers → Sci-Hub
 - 6.2 Analyzing papers
 - 6.3 Referencing papers
7. Writing a scientific paper

What is the Scientific Method?

Writing Style

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

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)