

Uni Scientific Writing Notes

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October 8, 2021

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1 Introduction

1.1 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 :)

1.2 License



Figure 2: AGPL-3.0 license badge

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SPDX-License-Identifier: AGPL-3.0

2 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

3 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
 1. Finding papers → Sci-Hub
 2. Analyzing papers
 3. Referencing papers
7. Writing a scientific paper

4 What is the Scientific Method?

4.1 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

4.2 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)