

# Uni Scientific Writing Notes

Felix Pojtinger

October 11, 2021

## Contents

|          |                                       |          |
|----------|---------------------------------------|----------|
| <b>1</b> | <b>Introduction</b>                   | <b>2</b> |
| 1.1      | Contributing . . . . .                | 2        |
| 1.2      | License . . . . .                     | 2        |
| <b>2</b> | <b>Organization</b>                   | <b>3</b> |
| <b>3</b> | <b>Overview</b>                       | <b>3</b> |
| <b>4</b> | <b>What is the Scientific Method?</b> | <b>3</b> |
| 4.1      | Writing Style . . . . .               | 3        |
| 4.2      | Typical Criteria . . . . .            | 3        |

# 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](https://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

Uni Scientific Writing Notes (c) 2021 Felix Pojtinger and contributors

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)