

Seminars: Collaborative Software Development and Software Variability

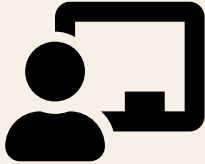
Kick-Off | Paul Bittner, Thomas Thüm | April 10, 2025

Topic Assignment: Bachelor Seminar

<https://www.tu-braunschweig.de/isf/teaching/bachelorseminar>

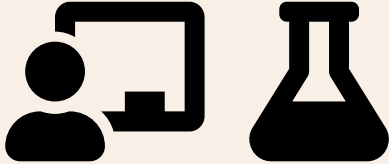
Overview

University's Have Two Sides



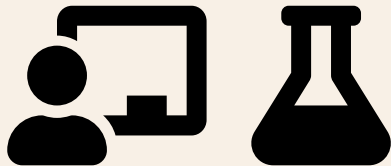
Overview

University's Have Two Sides



Overview

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Goals of the seminar

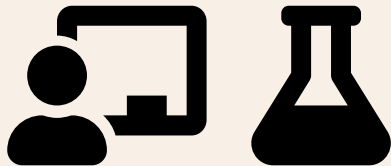
Look into the science part, in particular how science is done today!

First contact with ...

- ... software engineering research,
- ... scientific writing,
- ... scientific collaboration,
- ... \LaTeX .

Overview

University's Have Two Sides



Goals of the seminar

Look into the science part, in particular how science is done today!

First contact with ...

- ... software engineering research,
- ... scientific writing,
- ... scientific collaboration,
- ... \LaTeX .

Training ground for your bachelor's or master's thesis

Organization

Milestones

There are four milestones:

- first paper draft
- peer-review
- final paper
- presentation

We expect:

- a paper of 6-8 pages
- the peer-review to follow our scheme
- a presentation of **TBA** min

Communication


- Material on our website
- Announcements in Stud.IP

Three-part examination

- paper (40%)
- reviews (20%)
- presentation (40%)

For paper and presentation you need to reach 50% of the points to pass each. If you fail a paper milestone, there won't be a presentation.

Submissions for Deadlines

- Every submission is tracked via Gitlab  (no e-mail!).
- Make sure your progress is pushed by the deadline.
- When you make progress, commit and push the same day! We don't want to see all your changes in a single commit at a single day.

Material

Language

- Material will be provided in English
- Paper and presentation are to be submitted in English

Templates

- Templates will be provided for each milestone.
- The paper template *must* be used because that is how it is done for scientific publishing. We are going to write in a real template for scientific papers from the [Association of Computing Machinery](#).
- The review template *must* be used. It is based on the official reviewing template at a top software engineering conference.
- The presentation template *can* be used.

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The Name of the Title Is Hope

John Smith
The Thærvold Group
Hekla, Iceland

ABSTRACT

A clear and well-documented BQX document is presented as an article formatted for publication by ACM in a conference proceedings or journal publication. Based on the "acmart" document class, this article presents and explains many of the common variations, as well as many of the formatting elements an author may use in the preparation of the documentation of their work.

KEYWORDS

Do, Not, Us, This, Code, Put, the, Correct, Terms, for, Your, Paper

ACM Reference Format:
John Smith. 2018. The Name of the Title Is Hope. In *Proceedings of Make sure to enter the correct conference title from your rights conformation email* (Conference acronym 'XX). ACM, New York, NY, USA, 6 pages. <https://doi.org/XXXXXX/XXXXXX/XXXXX>.

1 INTRODUCTION

ACM's consolidated article template, introduced in 2017, provides a consistent BQX style for use across ACM publications, and incorporates accessibility and metadata-extraction functionality necessary for future Digital Library endeavors. Numerous ACM and SIG-specific BQX templates have been examined, and their unique features incorporated into this single new template.

If you are new to publishing with ACM, this document is a valuable guide to the process of preparing your work for publication. If you have published with ACM before, this document provides insight and instruction into more recent changes to the article template.

The "acmart" document class can be used to prepare articles for any ACM publication – conference or journal, and for any stage of publication, from review to final "camera-ready" copy, to the author's own version, with very few changes to the source.

2 TEMPLATE OVERVIEW

As noted in the introduction, the "acmart" document class can be used to prepare many different kinds of documentation – a double-anonymous initial submission of a full-length technical paper, a two-page SIGGRAPH Emerging Technologies abstract, a "camera-ready" journal article, a SIGCHI Extended Abstract, and more – all by selecting the appropriate template style and template parameters.

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This document will explain the major features of the document class. For further information, the *BQX User's Guide* is available from <https://www.acm.org/publications/proceedings-template>.

2.1 Template Styles

The primary parameter given to the "acmart" document class is the template style which corresponds to the kind of publication or SIG publishing the work. This parameter is enclosed in square brackets and is a part of the documentclass command:

```
\documentclass[STYLE]{acmart}
```

Journals use one of three template styles. All but three ACM journals use the *acmsmall* template style:

- *acmsmall*: The default journal template style.
- *acmlarge*: Used by JOCCH and TAP.
- *acmtog*: Used by TOG.

The majority of conference proceedings documentation will use the *acmconf* template style.

- *acmconf*: The default proceedings template style.
- *sigchi*: Used for SIGCHI conference articles.
- *sigplan*: Used for SIGPLAN conference articles.

2.2 Template Parameters

In addition to specifying the template style to be used in formatting your work, there are a number of template parameters which modify some part of the applied template style. A complete list of these parameters can be found in the *BQX User's Guide*.

Frequently-used parameters, or combinations of parameters, include:

- *anonymous, review*: Suitable for a "double-anonymous" conference submission. Anonymizes the work and includes line numbers. Use with the `command` to print the submission's unique ID on each page of the work.
- *authorversion*: Produces a version of the work suitable for posting by the author.
- *screen*: Produces colored hyperlinks.

This document uses the following string as the first command in the source file:

```
\documentclass[sigconf]{acmart}
```

3 MODIFICATIONS

Modifying the template ... includes but not limited to alterations

Schedule

Classes are at **3pm**, Deadlines are at **8pm**

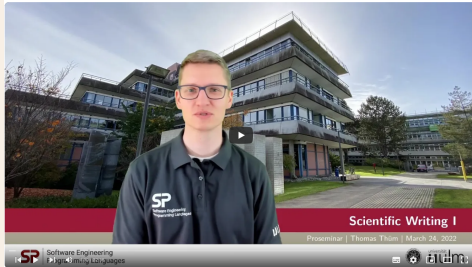
Apr 10		Kick-Off (Today)
Apr 16	Deadline	Technical Setup, Section Captions
Apr 21		End of Deregistration Period
Apr 23	Deadline	Outline with Topic Sentences
Apr 24	Class	Scientific Writing
Apr 30	Deadline	Abstract
May 07	Deadline	Introduction, Related Work
May 08	Class	Consultation (online)
May 21	Milestone	First Paper Draft
May 22	Class	Peer-Review
May 28	Deadline	Summary, Strengths, Weaknesses of Peer-Review
Jun 04	Milestone	Peer-Review
Jun 09–13		Excursion Week
Jun 05	Class	Reviewing our Peer-Reviews
Jun 25	Milestone	Final Paper
Jun 26	Class	Scientific Talks
Jul 02	Deadline	Presentation Outline
Jul 10	Milestone	Presentations (tentative)

ChatGPT and its Friends

- LLM assistance is not forbidden but strongly discouraged from.
- All generated text must be quoted as such (like you would quote other authors).
- If you use AI, add a dedicated section “Writing Statement” at the end of your paper and attribute to the specific LLM used and in which section you used AI.
- Furthermore, you must document all prompts used and the corresponding answers received when utilizing LLMs (or similar tools) in Git (e.g., in a plain text file or markdown file).
- Usage of grammar and spell checking software does not need to be documented or reported.
- We preserve the right to use tools to detect undocumented AI usage.

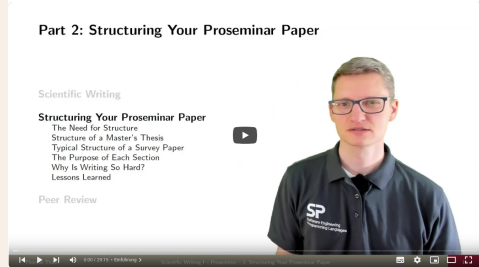
What are your next steps?

Watch the following lectures on scientific writing:



SW1a Einführung - Wissenschaftliches Schreiben im Proseminar

https://www.youtube.com/watch?v=9LQXFCvuzzI&list=PL4hJhdKDPIxjb6paLa_tuR2USpoV5M010&index=2



SW1b Struktur einer Proseminararbeit - Wissenschaftliches Schreiben im Proseminar

https://www.youtube.com/watch?v=DccUpVJZ10k&list=PL4hJhdKDPIxjb6paLa_tuR2USpoV5M010&index=2

- Start assembling and review papers for your topic.
- Familiarize with your Gitlab repository (you will get access soon): Make sure you can compile the \LaTeX template. Read the README file!

Start reading and writing early!

Topic Assignment: Master Seminar

<https://www.tu-braunschweig.de/isf/teaching/masterseminar>