



## **Scientific Writing Across Disciplines**

**- AI and Good Scientific Practice -**

iRTG · SFB 1665 Sexdiversity · Universität zu Lübeck

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# Introduction

In planning this year's Summer School, we set out to create a week of concrete, hands-on engagement with scientific writing, the rules of good scientific practice, and the practical use of AI tools. Two threads run through the week: scientific writing and the use of AI across disciplines.

## Scientific writing

Writing becomes increasingly important as we progress in our doctoral studies. However, each discipline has its own requirements, so we all face different challenges. To help overcome these obstacles, we have organized a writing workshop with a professional coach. The structure of the workshop has two goals: reflecting on and improving your individual writing challenges and building a better understanding of scientific writing across disciplines. Beyond the coach's feedback, you will discuss your texts with one another in interdisciplinary groups: an opportunity to practice giving feedback, to see how other disciplines write, and to test whether your message reaches a non-specialist audience.

## AI usage

Many of us already use AI in one form or another, and its possible applications are wide-ranging. We have selected specific questions to discuss together, such as what these tools can and cannot do, how their use changes analysis and interpretation, and how they play out differently across our disciplines. Our goal is to approach the topic from different angles and think it through as a group.

This booklet contains detailed information about the program for the Summer School 2026, including the workshops and evening activities.

We look forward to seeing you!

Alisa, Greta, and Henriette

# Program Overview

## Monday 28 September · IMGWF

|       |                                                                 |
|-------|-----------------------------------------------------------------|
| 12:00 | Arrival with Lunch                                              |
| 13:00 | Welcome by Olaf and Ulrike                                      |
| 13:30 | Deniz Sarikaya I — Scientific writing in times of generative AI |
| 15:30 | Workshop: How do we use AI so far?                              |
| 18:00 | Get-together · Fish'n'Chips by the water                        |

## Tuesday 29 September · MachBar

|       |                                                        |
|-------|--------------------------------------------------------|
| 09:00 | Kimberly Crow — Keynote writing workshop               |
| 10:30 | “Talk your Science” exercise                           |
| 11:00 | Consultations in pairs (35 min slots) and writing time |
| 12:15 | Lunch                                                  |
| 13:15 | Consultations in pairs (35 min slots) and writing time |
| 17:00 | Pizza at Sudden Death                                  |

## Wednesday 30 September · IMGWF

|       |                                                        |
|-------|--------------------------------------------------------|
| 09:00 | Jens Mittag — PublicationGod workshop                  |
| 12:00 | Lunch                                                  |
| 13:30 | Group picture                                          |
| 14:00 | Consultations in pairs (35 min slots) and writing time |
| 16:30 | Wrap up writing workshop                               |
| 20:30 | Pub quiz at Finnegan's Irish Pub                       |

## Thursday 1 October · IMGWF

|         |                                                                   |
|---------|-------------------------------------------------------------------|
| 09:00   | Prof. Dr. Yves Jeanrenaud — AI in Qualitative Research            |
| 10:00   | Interdisciplinary feedback on your text                           |
| 12:00   | Lunch                                                             |
| 13:30   | PD Dr. Marco Galle — AI-assisted text analysis in social sciences |
| 15:00   | Deniz Sarikaya II — Closing reflection                            |
| evening | City escape tour                                                  |

## Friday 2 October · IMGWF

|       |                            |
|-------|----------------------------|
| 09:00 | PhD Assembly and elections |
| 10:30 | Topics to Discuss          |
| 11:15 | Feedback on the week       |
| 12:00 | Brown bag farewell         |

# Input Session

## Scientific Writing in times of Generative AI and the core of scientific disciplines

*with Dr. Deniz Sarikaya*

On Monday afternoon, **Deniz Sarikaya** (Ethical Innovation Hub, University of Lübeck) will open the week by discussing scientific writing nowadays. Generative Artificial Intelligence is already changing the research landscape and the way we write academically. At the same time, the norms, rules, and legal frameworks surrounding its use are still being negotiated. In this situation, it can be difficult to develop one's own position towards these tools. Do we now need to produce as much as possible with AI in order to keep up? Or might extensive use of AI later be regarded critically? In this workshop, we will take a step back and explore some of the fundamental questions surrounding AI in academia.

The workshop is deliberately modular and will also be shaped by your own questions and concerns. Deniz has prepared a range of possible topics, and together, we will decide which of these questions we want to explore in more depth. Your own questions and concerns drive this session. The workshop is therefore less an introduction to specific AI tools than a space for reflection, discussion, and experimentation in relation to Good Scientific Practice. Underlying these discussions is a more fundamental question: What is at the core of your scientific discipline and what should remain at its core in an age of generative AI?

Finally, we will reflect on our current AI use in a workshop. At what stage of the research process do we use AI, and to what extent? Are there differences between our disciplines?

On Thursday afternoon, Deniz will return for a closing reflection that will pick up the threads from Monday.

# Writing Workshop

*with Dr. Kimberly Crow*

Most of the week is dedicated to scientific writing. **Kimberly Crow** is a German-American social scientist with more than 20 years of experience in research and teaching. As a communication consultant, she is specialized in academic communication. Her writing workshop combines three elements:

## Coaching on your own text

Across Tuesday and Wednesday, you will work on your individual projects with structured guidance to improve your writing process.

## Individual feedback

In groups of two, you will discuss your text directly with Kimberly Crow during dedicated feedback slots that run in parallel to the writing sessions. This allows you to receive detailed, individual expert feedback on your work.

## Peer feedback

Structured feedback rounds in small, interdisciplinary groups ensure that everyone receives constructive comments on their work and practices providing feedback.

Please bring a piece of text that you are working on (e.g., a paper in progress or a thesis chapter). Think about this in advance, and when relevant, agree with your PI on which piece of text to work on during the summer school. This will allow you to make the most of the week and apply what you learn directly to your work.

# PublicationGod

*with Prof. Dr. Jens Mittag*

We will work hands-on with PublicationGod, an AI-supported tool developed by **Jens Mittag**, who will lead the session. The tool is designed to guide natural science researchers through the process of writing a manuscript, from finished experiments to a first draft.

The goal is to explore an AI tool in practice and to reflect on the process together. For those of us working in the social sciences, this is also an opportunity to gain insight into another discipline: trying out a tool designed for a different research culture provides a clear understanding of how publishing works in the natural sciences. Where are the differences and parallels? Could an approach like this be adapted to your own field?

PublicationGod is one example of a growing range of similar tools, and using it provides a basis for answering fundamental questions about what such tools can and cannot do in the writing and publication process, where their limits lie, and the consequences for good scientific practice. This is not an endorsement of this particular software. We will use the free university packages and do not expect anyone to purchase additional licenses.

## WHAT YOU NEED TO PREPARE

Please look for published studies of interest to you, ideally something close to your own work or simply intriguing.

- Figures and tables as image files (JPEG, PNG, or GIF; max. 10 MB each)
- Five reference papers as PDFs
- A laptop for the interactive session
- A mobile phone to scan QR codes

You are of course welcome to use your own data that you plan to publish. If you have trouble finding suitable studies, please reach out to us beforehand.

# Use of AI in Social Sciences

## AI in Qualitative Research

*with Prof. Dr. Yves Jeanrenaud*

The day will be opened with an input into AI in qualitative research by **Yves Jeanrenaud**. He is a sociologist by training and since 2026, he holds the chair for Gender and Diversity in Engineering and Computer Science at Osnabrück University of Applied Sciences. It is the university's first bridging professorship, jointly located in the Faculty of Engineering and Computer Science and the Faculty of Management, Culture and Technology. In his own words, he sees this dual position as "a chance to spread the topics of gender and diversity more broadly across the university". Yves' previous work at LMU Munich and TU Munich, among other institutions, spans gender and STEM, biographical research, artificial intelligence and qualitative methods. He will introduce the current developments and the debates now running through the social sciences and brings considerable experience in interdisciplinary settings.

## AI-assisted text analysis in social sciences

*with Dr. Marco Galle*

**Marco Galle**, a postdoctoral researcher, mixed-methods research consultant, and lecturer at the University of Teacher Education Lucerne, will discuss the methodological and epistemological implications of using large language models (LLMs) in qualitative research. The use of LLMs in qualitative data analysis has developed rapidly but remains contested. The session will first outline key positions in the current debate and examine central arguments for and against integrating LLMs into qualitative data analysis. Particular attention will be paid to the different roles that LLMs can assume within the analytical process, ranging from supportive tools and analytical assistants to more autonomous analytical agents. Building on this debate, the session will address a more fundamental epistemological question: How does the use of probabilistic language models affect processes of analysis, interpretation, and knowledge generation in qualitative research? Finally, Marco will provide brief insights into current technical approaches to AI-assisted qualitative analysis. Using selected applications and workflows, including MAXQDA AI Assist, the session will illustrate different ways in which LLMs can be integrated into qualitative analysis and discuss the methodological opportunities and limitations associated with these approaches.

Both sessions take an approach to AI from the social sciences, thereby mirroring the PublicationGod workshop. While the former session allows social scientists to observe the development of a manuscript in the natural sciences, the latter two sessions invite natural scientists to explore the analysis of interviews and documents, as well as the meaning of "AI support" in this context. The interesting part lies in the comparison of where our disciplines genuinely differ in how these tools affect our work and where we face the same problem with different terminology.

# Organizational Day

## PhD Assembly and Discussions

We want to keep space open for whatever is on your mind. If there's a topic you'd like to raise with the group, please reach out to us ahead of time so we can set aside proper time for it on the agenda. Spontaneous contributions are welcome too.

## Elections

It's time to elect new PhD representatives to the Steering Committee. This is your opportunity to help steer the direction of the program: representatives bring the concerns and ideas of the PhD community directly to where decisions get made. Please consider whether you would like to put yourself up for election.

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# Evening Program

We have thought of different ways to come together in the evenings, and we hope you like what we came up with.

## Monday — Get-together (PhDs only)

An informal start into the week: We will grab a Fischbrötchen at [Fangfrisch](#) and sit outside by the water. Vegetarian and vegan options are available, and we can move to the IMGWF lecture hall in case of bad weather.

## Tuesday — Pizza at [Sudden Death](#)

The main part of the writing workshop takes place at the MachBar. The brewpub Sudden Death is right next door, where we will come together for pizza.

## Wednesday — Pub quiz at [Finnegan's](#)

Lübeck's Irish pub hosts a public quiz which we will join: small teams, several rounds of general-knowledge questions, and a small prize for whoever comes out on top. The questions are written in German and Englisch.

## Thursday — [City escape tour](#)

Half city tour, half puzzle: in small teams you make your way through Lübeck's old town, solving riddles tied to the places you pass. No guide, your own pace. Maybe you will see places you have never looked at before?