

## 3-module webinar series

# Next-Level Science using AI Assistants

Module 1: 31 January 2025 | Module 2: 6 February 2025 | Module 3: 18 February 2025

AI-based tools revolutionize science and enable researchers to work more efficiently and effectively. However, it is important for researchers to use these tools judiciously and with an understanding of their limitations.

The 3-module webinar series will dive into the use of AI assistants, providing you with a fundamental understanding of how generative AI works and what limitations it currently has. You will gain hands-on experience in applying AI to your daily research challenges and beyond. Additionally, it will cover ethical aspects as well as compliance with good scientific practice and data protection. The focus will be on practical exercises and developing creative approaches tailored to your specific needs.

### Topics

This webinar series will introduce you to the possibilities offered by AI assistants. It will enable you to:

- Efficiently conduct literature searches, create engaging social media content, and perform data analysis.
- Brainstorm more effectively with AI assistants and unlock their creative potential.
- Elevate your science communication skills, your scientific writing, and your slide design to a new level.
- Refine your prompting techniques to make AI your personal research assistant.
- Leverage AI advantages while adhering to privacy and scientific integrity standards.

The course will be offered online in an interactive format. Case studies and live exercises will help the participants to apply the concepts and tools to their own research.

### Who can attend

The webinar series is open to all IMK people interested. No prior experience in AI is necessary to join.

### Schedule

The webinar series will take place online and in English on 3 days with 3 hours each:

Module 1: **Friday, 31 January 2025, 9:30-12:30:**

Introduction to large language models,  
How to use large language models

Module 2: **Thursday, 6 February 2025, 9:30-12:30:**

Literature review with AI,  
Idea generation and structuring

Module 3: **Tuesday, 18 February 2025, 9:00-12:00:**

Programming and data analysis using AI tools,  
Science communication with AI

### Registration and costs

Please register at <https://indico.scc.kit.edu/event/4736> by **December 20, 2024** at the latest. We allocate the places on a first come-first serve approach. Please note: You can register for each module individually. The webinars are a KIT ATMO Talent Management activity, costs are covered by the ATMOchange program and IMK-IFU.

### Trainer

**Dr. Markus Gyger** holds a PhD in Biophysics, **Prof. Dr. Daniel Mertens** is a biochemist by training and leads research groups at the German Cancer Research Centre in Heidelberg and the University Hospital Ulm. Both work as freelance trainers and coaches since 2011 and have since then trained many scientists in professional skills with a recent focus on AI implementation.

