

ONLINE COURSE

Artificial Intelligence tools for scientific writing Plus: Academic Career Development with AI

Instructor	Dr. Daniel Mertens (www.scientistsneedmore.de)
Target Group	all ZMT members who are interested in the topic.
Date & Time	Day 1: February 12, 2024 – 8:30 – 14:30 Day 2: February 14, 2024 – 8:30 – 14:30 <i>Syllabus below</i>
Format	Online, Participants can join the full course or only single modules.
Course Description	Explore the cutting edge of scientific writing and academic career development with Prof. Daniel Mertens. This online course, tailored for ZMT members and guests, delves into the practical applications of AI tools in scientific research, literature review, and writing. Participants will learn how to harness large language models for creating impactful scientific narratives, constructing intuitive figures, and navigating academic career paths more effectively.
Registration	Please, register under this link

SYLLABUS

Day 1 – February 12^h		
8:30 – 10:00	Modul 1 Introduction to GPTs and how to use them	<ul style="list-style-type: none"> • Overview of Generative Pre-trained Transformers (GPTs) • Practical applications of GPTs in scientific research • Step-by-step guidance on using GPTs for enhancing research productivity
11:00 – 12:30	Modul 2 Literature Research. How to use AI tools for literature research	<ul style="list-style-type: none"> • Utilizing AI for efficient literature searches and data aggregation • Advanced techniques for sorting and analyzing scientific papers

		<ul style="list-style-type: none"> Integrating AI tools with traditional research methodologies
13:30 14:30	Modul 3 AI-assisted writing: message, structure, text + Good scientific practices	<ul style="list-style-type: none"> Crafting coherent and structured scientific texts with AI assistance Ensuring adherence to good scientific practices in AI-assisted writing Enhancing the clarity and impact of research messages using AI
Day 2 – February 14th		
8:30 – 10:30	Modul 4 Storytelling and pitching: how to tell a scientific story (using AI)	<ul style="list-style-type: none"> Techniques for effective scientific storytelling and communication Leveraging AI for creating engaging and persuasive research presentations Strategies for pitching research ideas and findings to diverse audiences
11:00- 12:30	Modul 5 How to turn data into intuitive figures: Titles and (graphical) abstracts	<ul style="list-style-type: none"> Designing impactful titles and graphical abstracts using AI tools Transforming complex data into visually intuitive figures Best practices for enhancing the visual appeal of scientific publications
13:30- 14:30	Modul 6 Career Development (for Academics) Getting There with AI-Tools	<ul style="list-style-type: none"> Navigating academic career development using AI resources Identifying and leveraging AI tools for career advancement Strategies for integrating AI into personal and professional growth plans