Kite-mentoring training

Leveraging AI to Enhance
Research Productivity and Beyond

Date: Thursday 13.03.2025 (9:00 – 17:00)

Location: Faculty of Engineering, Univ. Freiburg, Georges-Köhler-Allee, building 080 - seminar room

Invited trainer: Dr. Dephie Huang (Freiburg)

Registration: https://terminplaner6.dfn.de/p/7b61278ac00cb3cac6de5b43c719b0e1-1043989

Target Audience:

Doctoral and postdoctoral researchers with little or no prior experience using large language models (LLMs) or AI tools. This workshop is designed for those who want to explore how AI can support their day-to-day professional activities.

Workshop Description:

Nowadays, large language models (LLMs) and AI tools have dramatically shaped our work and lives, becoming indispensable. These tools are changing how researchers work by supporting tasks such as brainstorming research ideas, finding collaboration partners, manuscript writing, analyzing data, developing proposals, and much more.

This one-day workshop offers an introduction to LLMs, an overview of AI tools, and their key applications in day-to-day professional activities such as literature reviews, idea brainstorming, data analysis, and manuscript or proposal preparation. Participants will learn how LLMs can assist their research needs and enhance their productivity. The session will also explore how to prompt more effectively, introducing the "Task – Sender – Context – Example – Constraint" framework. Additionally, the workshop will encourage reflections on participants' experiences, address ethical considerations, and explore broader applications of AI tools beyond research, such as in time management and administrative tasks.

Career development program for women in science

By the end of the workshop, attendees will gain confidence in crafting effective prompts to enhance outcomes, explore more applications to harness the benefits of large language models, and remain mindful of their limitations when applying them to research and beyond.

Workshop Objectives:

- Provide an introduction to large language models (LLMs) and an overview of AI tools.
- Explore their applications in day-to-day professional activities (e.g., literature reviews, idea brainstorming, data analysis, and manuscript or proposal preparation), enhancing productivity.
- Learn how to craft more effective prompts, such as using the "Task – Sender – Context – Example – Constraint" framework for better results.
- Expand applications beyond research.

What you will gain:

- Unlock the potential of AI tools to enhance productivity.
- Master the "Task – Sender – Context – Example – Constraint" framework to create more precise and effective prompts.
- Explore AI tools to meet your research needs.
- Gain awareness of the responsible use of AI tools.
- Confidence in integrating AI tools into your research and beyond.

Why is this workshop important?

The integration of AI tools into research is no longer optional—it is essential for staying competitive and productive. This workshop equips participants with the essential knowledge and skills to leverage AI in day-to-day professional activities effectively while being mindful of its limitations and ethical regulations.