

Workshop 1: LLMs in Practice: Using AI Tools Wisely in Research Software Engineering

Tuesday 20 May 2025 10:00 (3 hours)

You might already be using Large Language Models (LLMs) to write code, debug, or even brainstorm research ideas. But how do these AI tools fit into the bigger picture of good scientific practice?

This workshop is your guide to understanding the role of LLMs in Research Software Engineering. We'll explore how they can help you iterate on code faster, improve documentation, and navigate tedious programming tasks—but also look closely at the risks, such as incorrect outputs, hidden biases, and unclear contributorship. In addition, we'll connect these tools to research integrity: What does “responsible use” really mean? How can you use LLMs while staying transparent, reproducible and in line with research integrity?

With practical examples, interactive exercises, and discussions, this session will raise awareness for using LLMs effectively and responsibly when working on research software.

PLEASE BRING YOUR LAPTOP!

Presenters: EBERT, Jan (FZJ); FRISCH, Katrin (Ombuds Committee for Research Integrity in Germany)