

## FAU MoD Lecture Series



# Disruption in science and engineering happens at scale

# Johannes Brandstetter

JOHANNES KEPLER UNIVERSITY



WWW.MOD.FAU.EU
#FAUMoDLecture

#### WHEN

Monday October 13, 2025 11:00H (Berlin time)

### WHERE

On-site / Online

Friedrich-Alexander-Universität
Erlangen-Nürnberg (FAU). Room
H13 Johann-Radon-Hörsaal
Felix-Klein building
Cauerstraße 11, 91058
Erlangen. Bavaria, Germany

Live-streaming: www.fau.tv/fau-mod-livestream-2025

In the era of LLM models, one gets notoriously confronted with the question of where we stand with applicability of large-scale deep learning models within scientific or engineering domains. The discussion starts by reiterating on recent triumphs in weather and climate modeling, making connections to computer vision, physics-informed learning and neural operators.

Secondly, we discuss challenges and conceptual barriers which need to be overcome for the next wave of disruption in science and engineering. We showcase recent breakthroughs in multi-physics modeling, computational fluid dynamics, and related fields.