

Institut für Geophysik
Geophysikalisches Kolloquium
Sommersemester 2026
Montag, 06.07.2026

Prof. Dr. Conny Hammer
Universität Hamburg

Data-driven Seismology: Unlocking Earth Signals with Machine Learning

This talk provides an overview of how data-driven methods are being used to detect, classify, and interpret seismic signals across a wide range of spatial and temporal scales, and at levels of complexity that were previously impractical. I will also discuss how these approaches complement—rather than replace—physics-based models by enhancing their predictive capabilities, filling gaps in observational coverage, and guiding hypothesis generation. While important challenges remain, including issues of interpretability, generalization across regions, and robust uncertainty quantification, I will show how machine learning provides a promising framework for improving both the accuracy and efficiency of seismological analysis.

Das Kolloquium findet um 11:15 Uhr im Seminarraum GEO 315, Corrensstr. 24, 48149 Münster statt. Alle an dem Thema Interessierten sind hierzu herzlich eingeladen.

Die Dozenten des Instituts für Geophysik