

## [Gitta Kutyniok](#)

### *Short Bio:*

Gitta Kutyniok is Bavarian AI Chair for Mathematical Foundations of Artificial Intelligence at the Ludwig-Maximilians-Universität, München. She received her Diploma in Mathematics and Computer Science at Universität Paderborn in 1996. She was a Professor of Computer Science and Electrical Engineering (by courtesy) at the Technische Universität Berlin 2018-2020 and an Adjunct Professor in Machine Learning at the University of Tromsø in 2019-2023. Her current research interests include deep learning for inverse problems, statistical learning with sparsity, and reliable AI, among many others. See more of her [Curriculum Vitae](#).

### *Topic:*

#### Reliable AI

Artificial intelligence is currently leading to one breakthrough after the other, both in public life with, for instance, autonomous driving and speech recognition, and in the sciences in areas such as medical imaging or molecular dynamics. However, one current major drawback worldwide, in particular, in light of regulations such as the EU AI Act and the G7 Hiroshima AI Process, is the lack of reliability of such methodologies. In these lectures, we will provide an introduction to this vibrant research area.

Lecture 1: "Reliable AI: Introduction"

Lecture 2: "Reliable AI: Expressivity, Learning, and Generalization"

Lecture 3: "Reliable AI: Theoretical Legal Requirements of the EU AI Act"

Lecture 4: "Reliable AI: Limitations"