



Prof. R. Wattenhofer

## Distributed Computing Meets Deep Learning

Deep learning theory is still hard to come by: Our understanding of neural networks is very limited, and much is left to heuristics, intuitions and trial-and-error. Nevertheless, researchers are tackling this problem from many directions, including statistics and information theory.

In this thesis we want to gain a better theoretical understanding of Deep Learning from the perspective of Distributed Computing. Neural networks are graphs with neurons as nodes, and we can apply conventional algorithms to analyze them. If this sounds interesting to you, please do not hesitate to contact us.

**Requirements:** Prior knowledge of Deep Learning. Interest in algorithms and theory.

**Interested? Please contact us for more details!**

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