



Prof. R. Wattenhofer

## Generative Adversarial Networks for Music

Generative Adversarial Networks (GANs) are one of the most important recent advances in Deep Learning. Every week there are new papers using GANs in new creative ways and some of the results are truly amazing. There is even something called the GAN Zoo<sup>1</sup> containing more than 200 GAN specimen!

Recently, GANs have also been successfully applied to generate music. In this thesis we want to improve recent work in several directions.

**Requirements:** Knowledge in Deep Learning (Equivalent to the Deep Learning lecture at ETH, or having read the Deep Learning Book<sup>2</sup>). Implementation experience with Keras and/or Tensorflow is an advantage.

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

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<sup>1</sup><https://github.com/hindupuravinash/the-gan-zoo>

<sup>2</sup><http://www.deeplearningbook.org/>