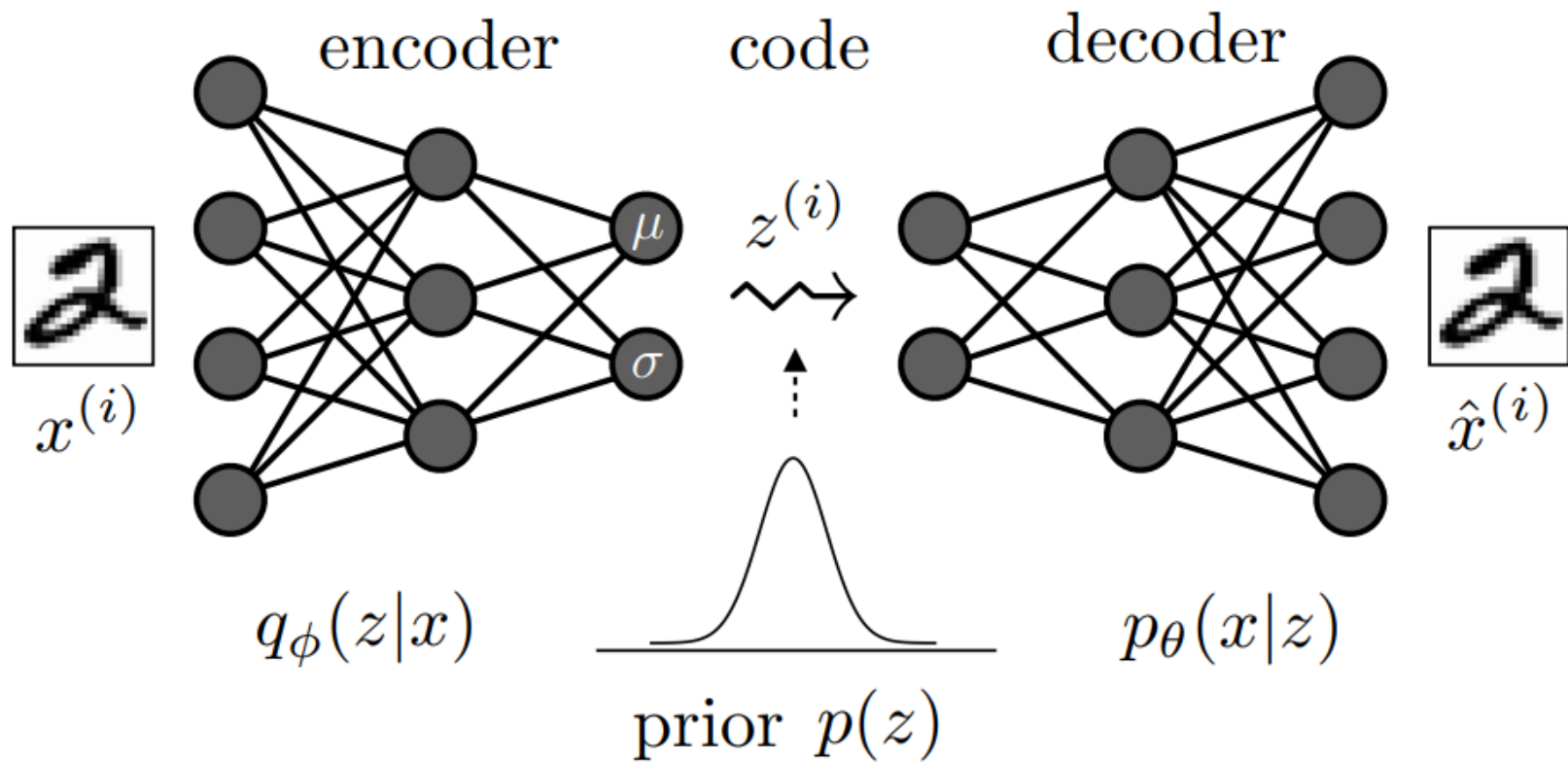




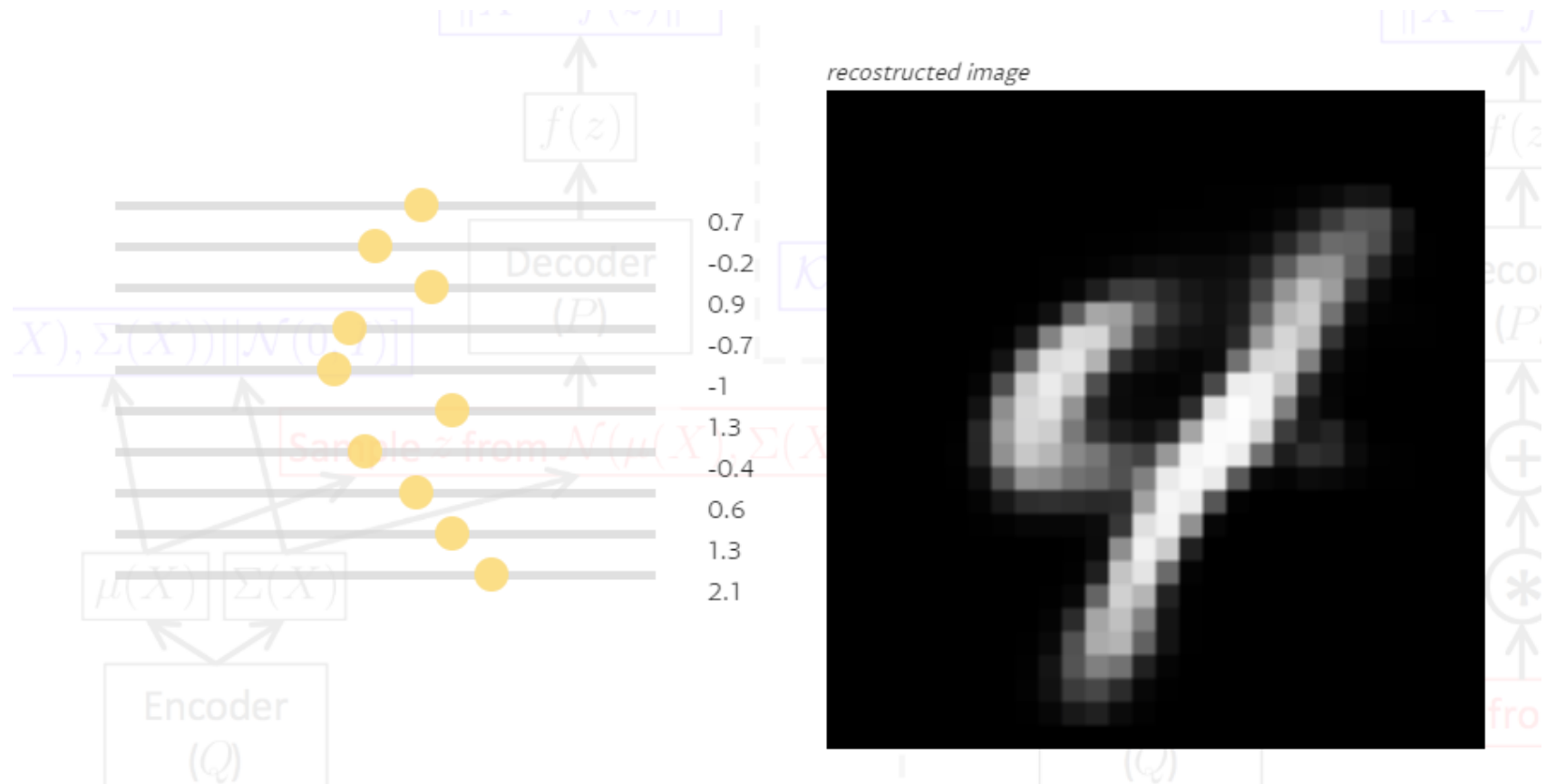
Autoencoder



Autoencoder

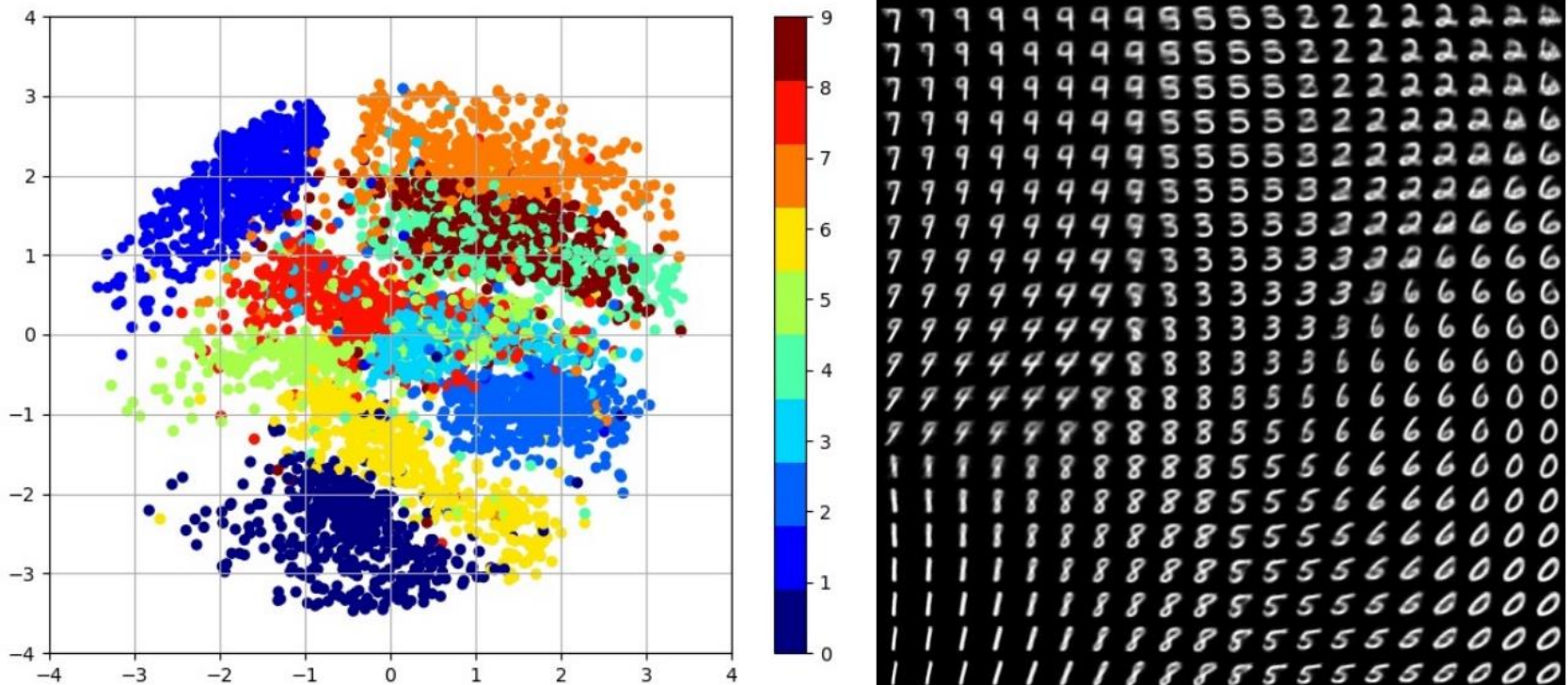


Demo

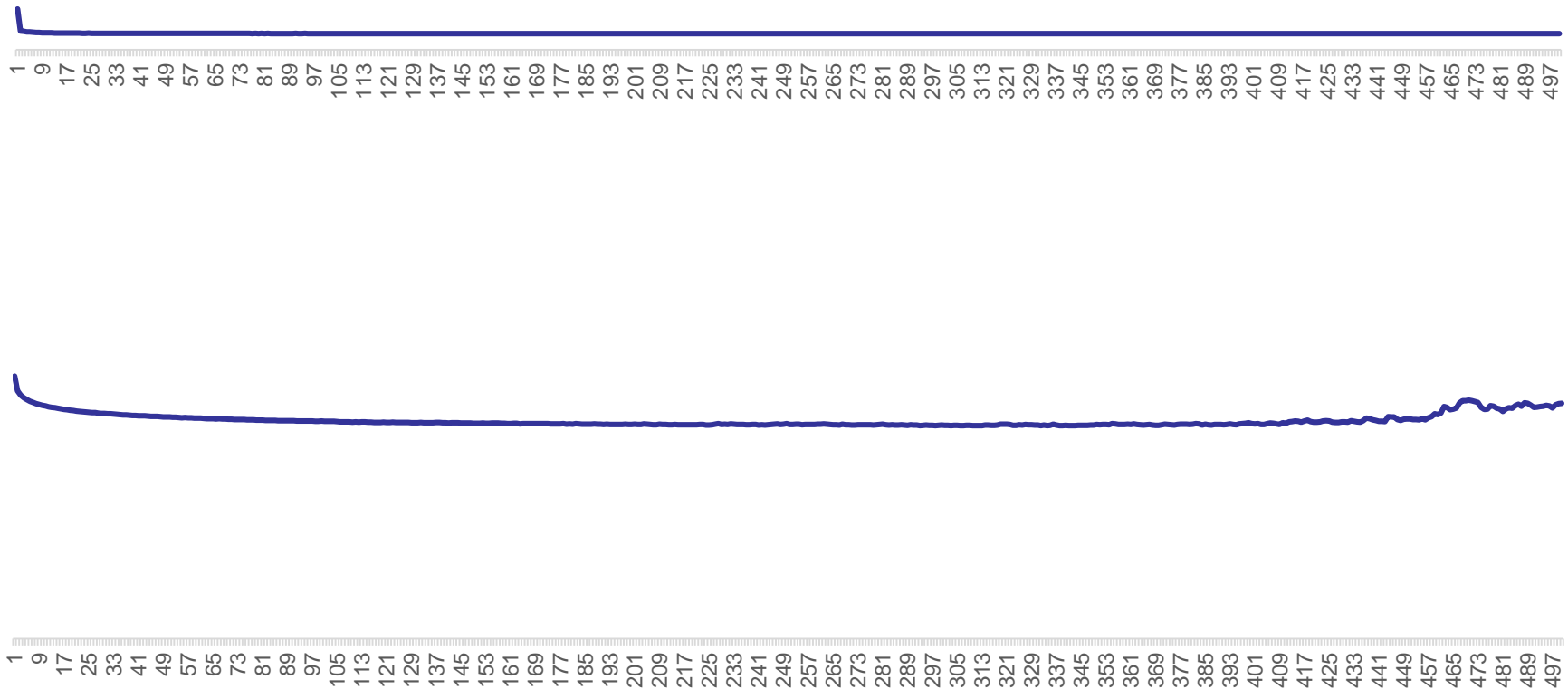


<https://www.siares.com/projects/variational-autoencoder>

Visualization

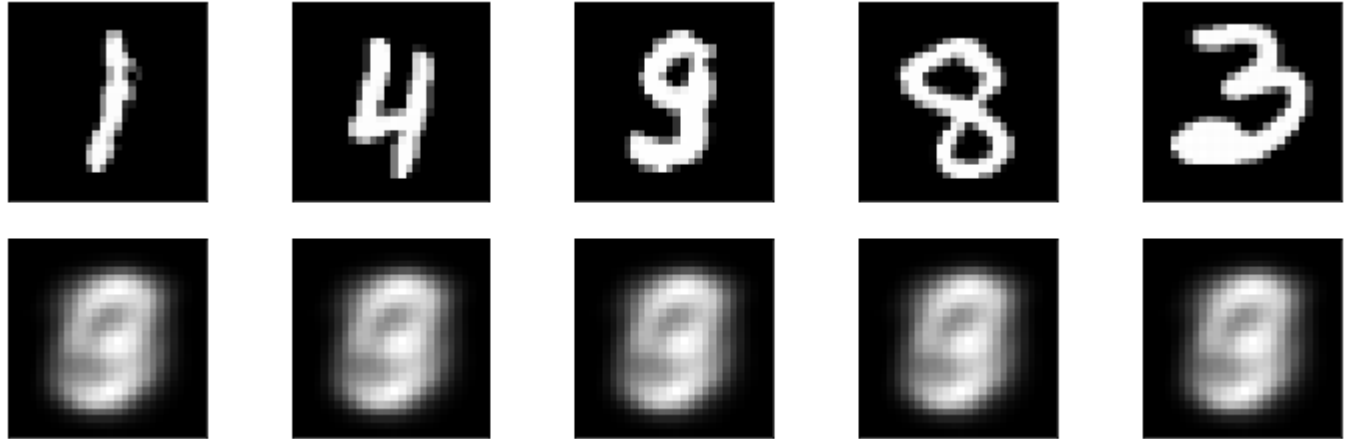


1 Neuron

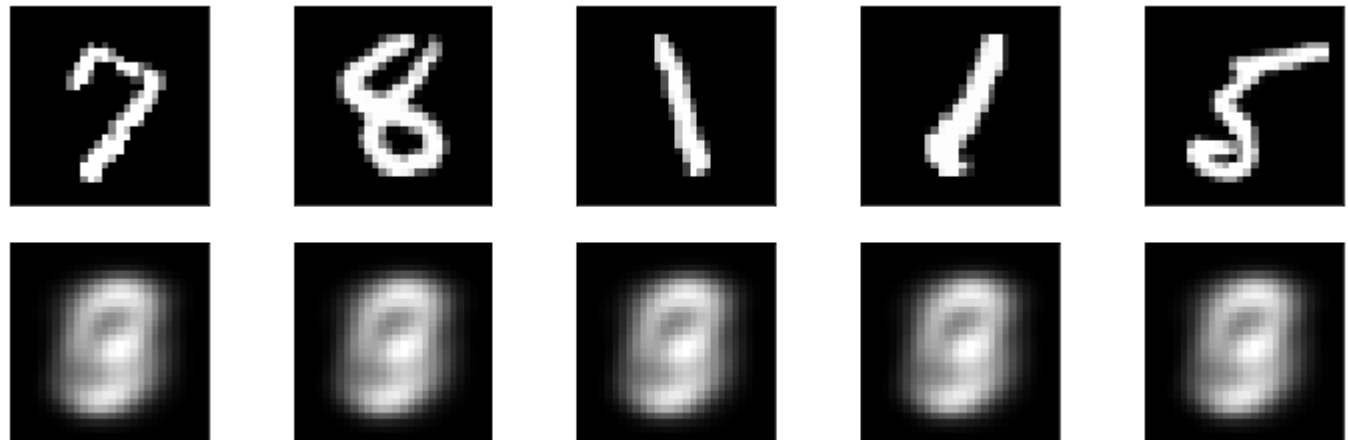


1 Neuron

1. Epoch

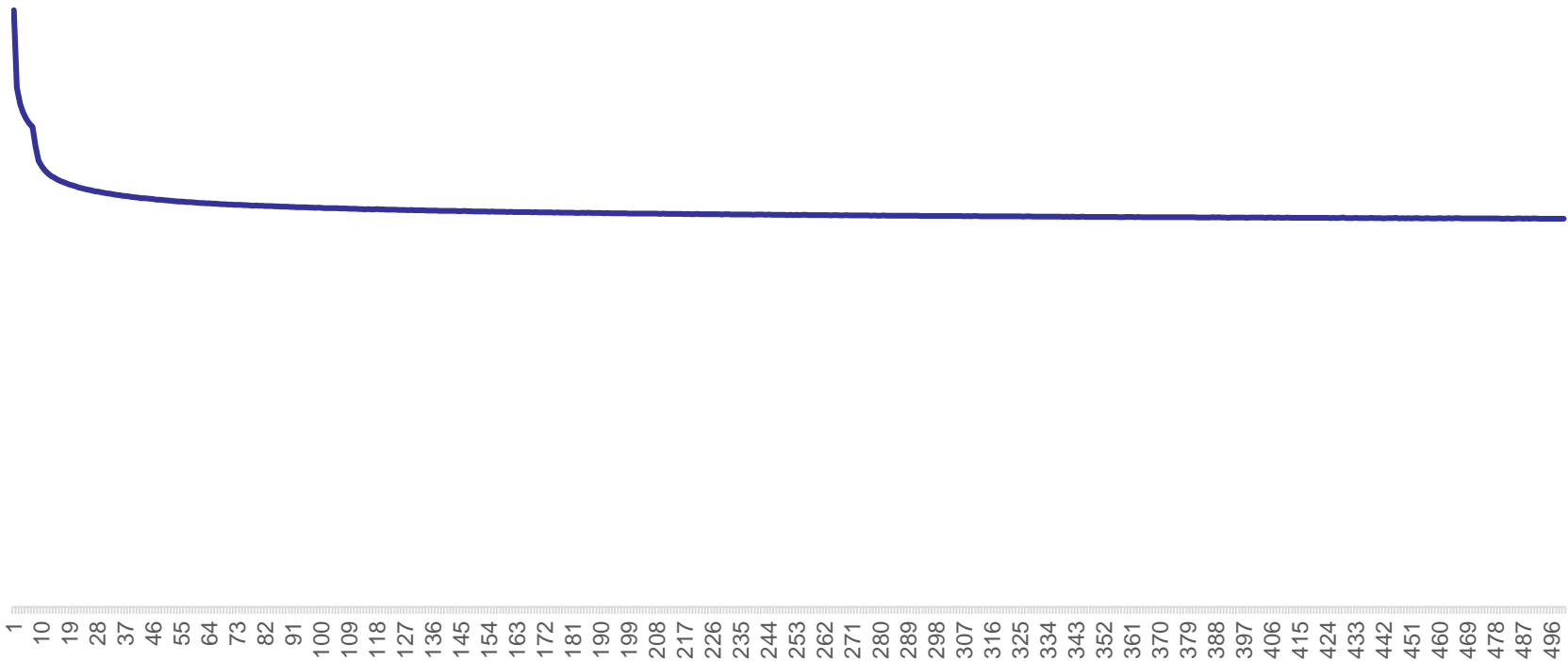


500. Epoch



3 Neurons

3 Neurons



3 Neurons

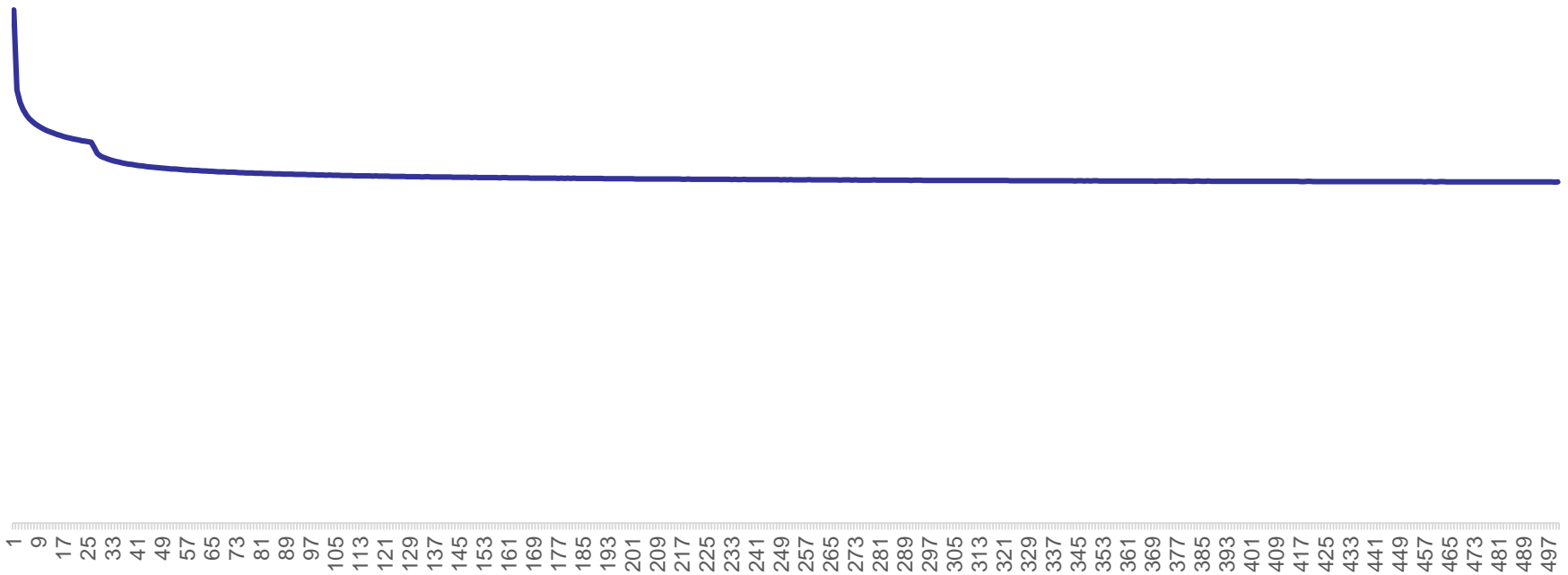
1. Epoch



500. Epoch



10 Neurons



10 Neurons

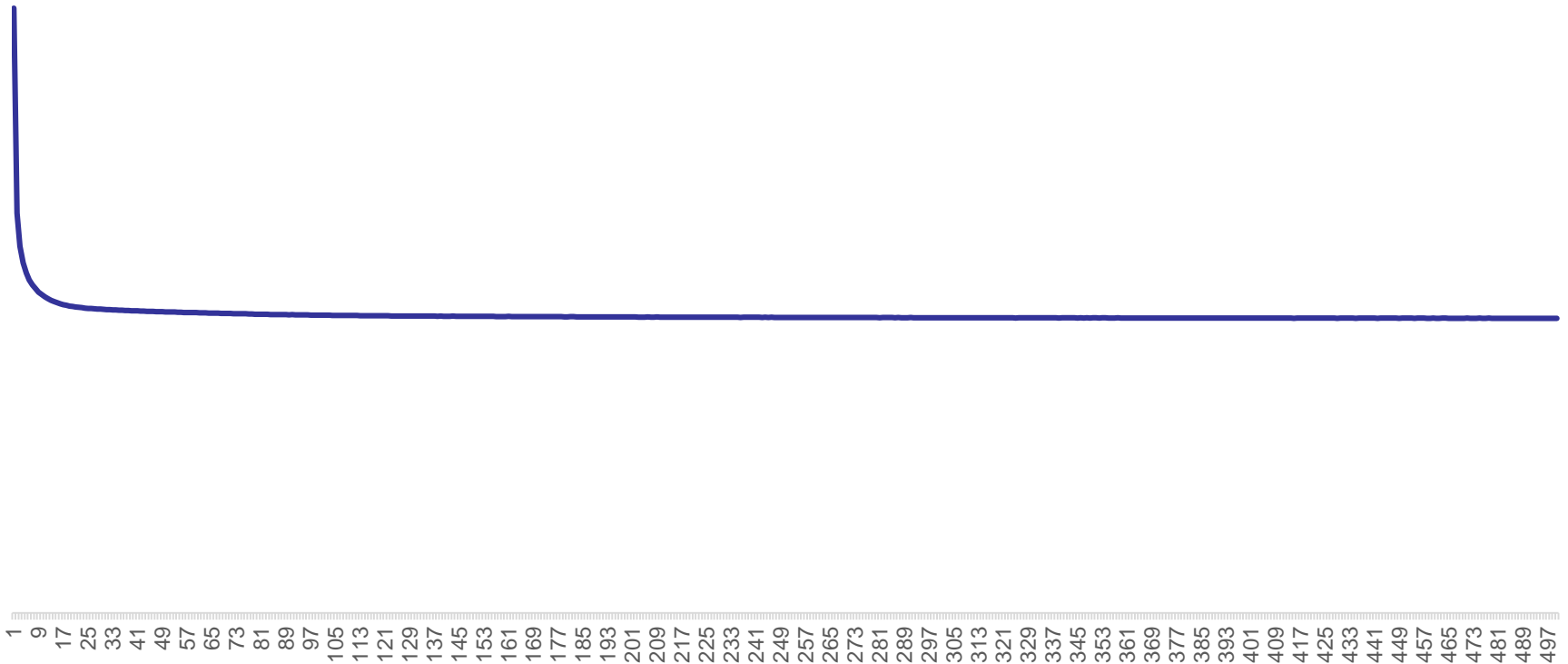
1. Epoch



500. Epoch



100 Neurons



100 Neurons

1. Epoch



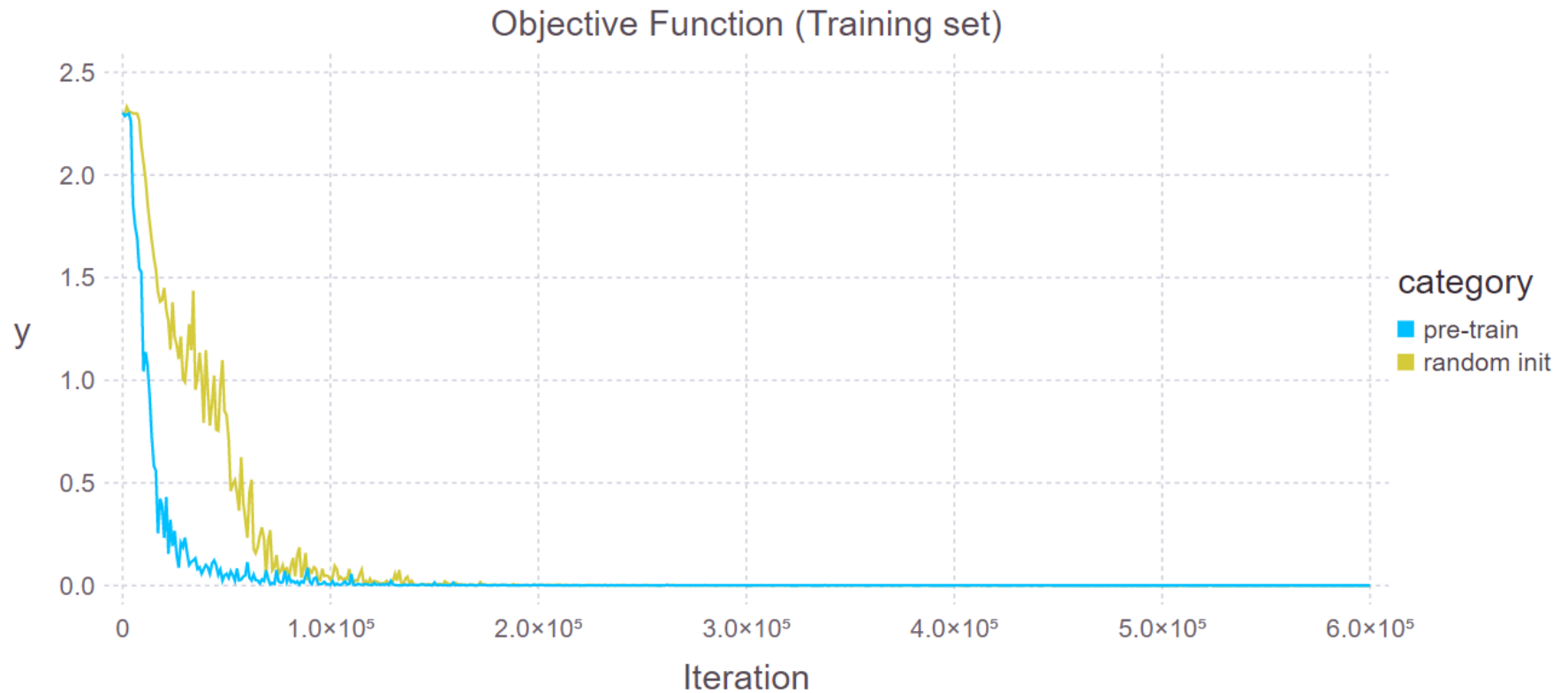
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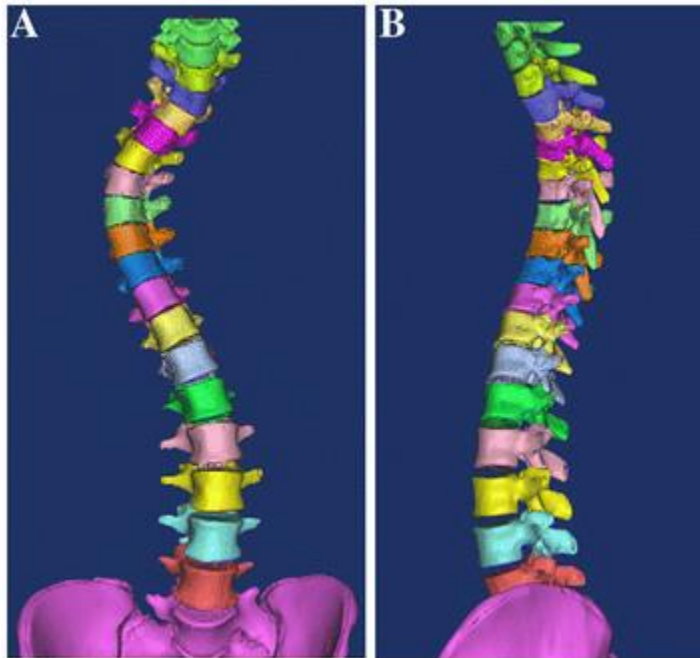
Applications



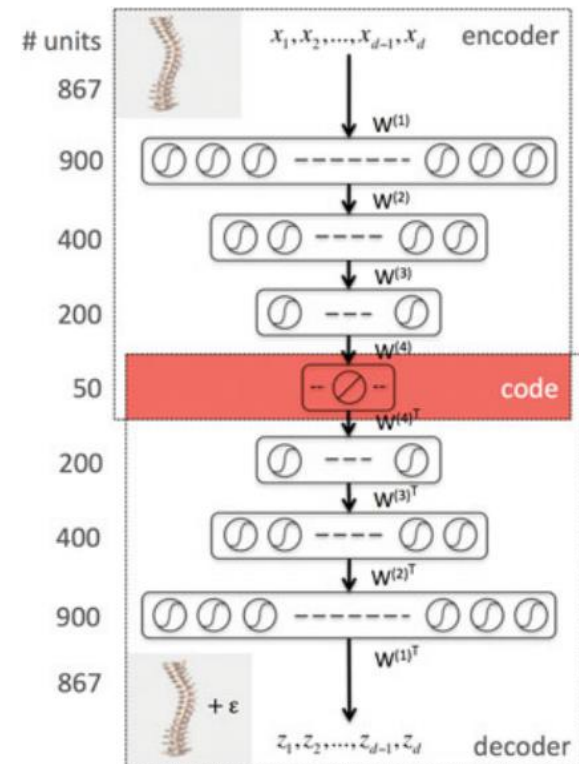
Applications



Applications



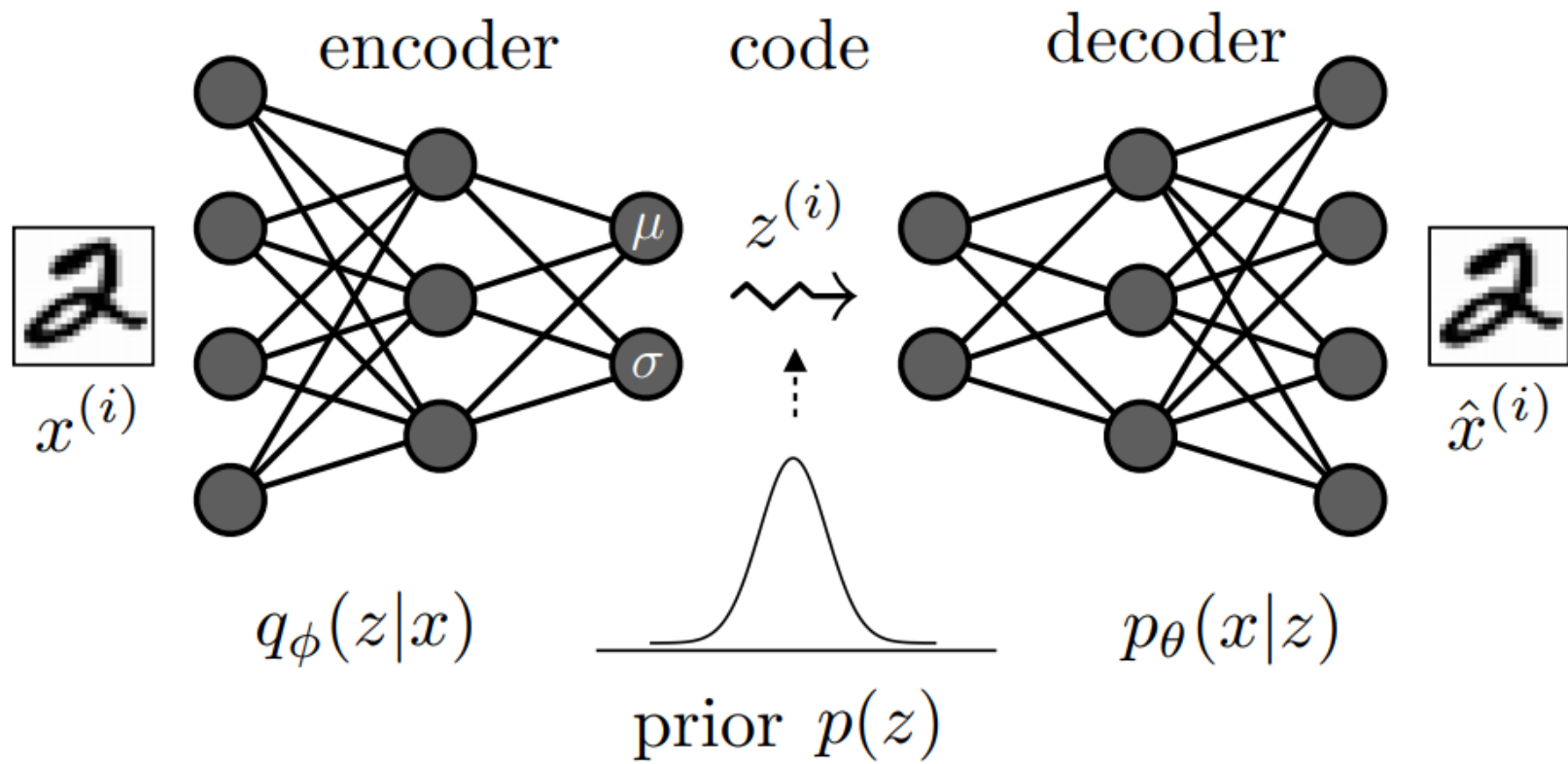
https://www.researchgate.net/figure/Segmented-3D-spine-modelA-Frontal-view-B-Lateral-view-A-segmented-3D-model-of-the_fig1_225300542



https://rd.springer.com/chapter/10.1007%2F978-3-319-14148-0_2

3D Spine Models in Adolescent Idiopathic Scoliosis

Autoencoder



Sources

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- „Auto-Encoding Variational Bayes“
<https://arxiv.org/pdf/1312.6114.pdf>
- <http://www.opendeep.org/v0.0.5/docs/tutorial-your-first-model>
- <https://mochajl.readthedocs.io/en/latest/tutorial/mnist-sDA.html>
- Additional sources: See Related links

Related links

- <https://www.siares.com/projects/variational-autoencoder>
- https://dbs.uni-leipzig.de/file/Saalmann_Ausarbeitung.pdf
- <https://arxiv.org/pdf/1606.05908.pdf>
- <https://github.com/manureini/Autoencoder>