**Tensor networks**

Compressing Recurrent Neural Network

with Tensor Train: <https://arxiv.org/pdf/1705.08052.pdf>

The Variational Power of Quantum Circuit Tensor Networks:

<https://arxiv.org/pdf/2107.01307.pdf>

Quantum-Classical Machine learning by Hybrid Tensor Networks

<https://arxiv.org/pdf/2005.09428.pdf>

Tensor train decompositions on recurrent networks

<https://arxiv.org/pdf/2006.05442.pdf>

Explainable Natural Language Processing with

Matrix Product States

<https://arxiv.org/pdf/2112.08628.pdf>

<https://github.com/juanjosegarciaripoll/mps>

**Quantum attention**

Short Quantum Circuits in Reinforcement Learning Policies for the Vehicle Routing

Problem:

<https://arxiv.org/pdf/2109.07498.pdf>

QSAN: A Quantum-probability based Signed Attention Network

for Explainable False Information Detection

<https://arxiv.org/pdf/2009.03823.pdf>

Linformer: Self-Attention with Linear Complexity

<https://arxiv.org/pdf/2006.04768.pdf>

Improving Speaker Identification via Singular Value

Decomposition Based Feature Transformer (local copy) <file:///Users/avillalpando/Downloads/TENCON.2008.4766398.pdf>

THE DAWN OF QUANTUM NATURAL LANGUAGE PROCESSING

<https://arxiv.org/pdf/2110.06510.pdf>

**Machine learning**

Image transfer learning: <https://pytorch.org/tutorials/beginner/transfer_learning_tutorial.html>

BERT models:  
<https://github.com/google-research/bert/tree/eedf5716ce1268e56f0a50264a88cafad334ac61>

HuggingFace DS:

<https://huggingface.co/datasets>

HuggingFace Transformers:

<https://github.com/huggingface/transformers>

<https://huggingface.co/docs/transformers/notebooks>

<https://www.analyticsvidhya.com/blog/2019/06/understanding-transformers-nlp-state-of-the-art-models/>

<https://tfhub.dev/google/universal-sentence-encoder/4>

Python 3 module on top of [Keras](https://github.com/fchollet/keras)/[TensorFlow](https://www.tensorflow.org) for creating [char-rnn](http://karpathy.github.io/2015/05/21/rnn-effectiveness/)s,

<https://github.com/minimaxir/textgenrnn>

model which will take keywords as inputs and generate sentences as outputs.

<https://github.com/gagan3012/keytotext>

Google’s Universal Sentence Encoder

<https://arxiv.org/pdf/1803.11175.pdf>

Bidirectional Recurrent Neural Networks

<https://d2l.ai/chapter_recurrent-modern/bi-rnn.html>

Rethinking attention with performers

<https://arxiv.org/pdf/2009.14794.pdf>

Linformer: Self-Attention with Linear Complexity

<https://arxiv.org/pdf/2006.04768.pdf>

FNet: Mixing Tokens with Fourier Transforms

<https://github.com/google-research/google-research/tree/master/f_net>

**Quantum ML**

PennyLane Transfer Learning(Transfer learning in hybrid classical-quantum neural networks)

<https://arxiv.org/pdf/1912.08278.pdf>

Quantum embeddings for machine learning

<https://arxiv.org/pdf/2001.03622.pdf>

Variational Quantum Circuit-Based Reinforcement Learning for

POMDP and Experimental Implementation

<https://downloads.hindawi.com/journals/mpe/2021/3511029.pdf>

QTN-VQC: AN END-TO-END LEARNING FRAMEWORK FOR

QUANTUM NEURAL NETWORKS

<https://arxiv.org/pdf/2110.03861.pdf>

Quantum activation functions for quantum neural networks

<https://arxiv.org/pdf/2201.03700.pdf>

Variational Quantum Reinforcement Learning via Evolutionary

Optimization

<https://iopscience.iop.org/article/10.1088/2632-2153/ac4559/pdf>

Quantum Neuron: an elementary building block for machine learning

on quantum computers

<https://arxiv.org/pdf/1711.11240.pdf>

Quantum recurrent neural networks:

<https://arxiv.org/pdf/2006.14619.pdf>

CLASSICAL-TO-QUANTUM TRANSFER LEARNING FOR SPOKEN COMMAND

RECOGNITION BASED ON QUANTUM NEURAL NETWORKS

<https://arxiv.org/pdf/2110.08689.pdf>

Faster Quantum Alternative to Softmax Selection in

Deep Learning and Deep Reinforcement Learning

QNLP

<https://www.cs.utep.edu/vladik/2019/tr19-52b.pdf>

Implementing Any Nonlinear Quantum Neuron (local file)

<file:///Users/avillalpando/Downloads/tnnls.2019.2938899.pdf>

QFCNN: QUANTUM FOURIER CONVOLUTIONAL NEURAL

NETWORK

<https://arxiv.org/pdf/2106.10421.pdf>

Convolutional Quantum-Like Language Model with

Mutual-Attention for Product Rating Prediction

<https://arxiv.org/pdf/1912.11720.pdf>

Attention based quantum tomography

<https://iopscience.iop.org/article/10.1088/2632-2153/ac362b/pdf>

Discrete Cosine Transforms on Quantum Computers

<https://arxiv.org/pdf/quant-ph/0111038.pdf>

Quantum Clustering Algorithms

<https://icml.cc/imls/conferences/2007/proceedings/papers/518.pdf>

**QNLP**

Explainable Natural Language Processing with

Matrix Product States

<https://arxiv.org/pdf/2112.08628.pdf>

word2ket: SPACE-EFFICIENT WORD EMBEDDINGS IN-

SPIRED BY QUANTUM ENTANGLEMENT

<https://arxiv.org/pdf/1911.04975.pdf>

Lambeq: An Efficient High-Level Python

Library for Quantum NLP

<https://arxiv.org/pdf/2110.04236.pdf>

Quantum Language Model with Entanglement

Embedding for Question Answering

<https://arxiv.org/pdf/2008.09943.pdf>

Natural Language Processing Meets Quantum Physics:

A Survey and Categorization

<https://aclanthology.org/2021.emnlp-main.254.pdf>

Are Words the Quanta of Human Language? Extending

the Domain of Quantum Cognition

<https://arxiv.org/pdf/2110.04913.pdf>

LANGUAGE AS A MATRIX PRODUCT STATE

<https://arxiv.org/pdf/1711.01416.pdf>

Explainable Natural Language Processing with

Matrix Product States

<https://arxiv.org/pdf/2112.08628.pdf>

Application of experiential quantum neural network in natural language processing

<https://developpaper.com/application-of-experiential-quantum-neural-network-in-natural-language-processing/>

Quantum Discrete Cosine Transform for Image Compression

<https://arxiv.org/pdf/quant-ph/0601043.pdf>

QFCNN: QUANTUM FOURIER CONVOLUTIONAL NEURAL

NETWORK

<https://arxiv.org/pdf/2106.10421.pdf>