

## Materials for TENSOR NETWORKS

- **Tensor Networks in a nutshell** (<https://arxiv.org/pdf/1708.00006.pdf>)
- **A Practical Introduction to Tensor Networks: Matrix Product States and Projected Entangled Pair States** (<https://arxiv.org/abs/1306.2164>)
- Tutorials and material on <https://www.tensors.net/>
- **Miles Stoudenmire: Tutorial on Tensor Network and Quantum Computing**
- Introduction to Tensor Network Methods (book) - <https://link.springer.com/book/10.1007/978-3-030-01409-4>
- [https://tensornetwork.org/reviews\\_resources.html](https://tensornetwork.org/reviews_resources.html)
- <https://tensornetwork.org/ml/>
- Lectures from [https://indico.icc.ub.edu/event/116/contributions/902/attachments/249/468/TNS\\_IntroMPSandTEBD\\_Sept2021.pdf](https://indico.icc.ub.edu/event/116/contributions/902/attachments/249/468/TNS_IntroMPSandTEBD_Sept2021.pdf)
- **Tensor network algorithms: a Route Map** (<https://arxiv.org/pdf/2205.10345.pdf>)
- Chapter 1. from PhD thesis -> [https://thesis.library.caltech.edu/10432/1/thesis\\_shukla\\_sujeet\\_2017\\_v1.pdf](https://thesis.library.caltech.edu/10432/1/thesis_shukla_sujeet_2017_v1.pdf)
  
- **Tensor Network for Machine Learning**
  - Miles Stoudenmire lecture ([link](#))
  - TensorNetwork for ML ([link](#))
  - Tensor Networks in ML ([link](#))
  
- **Tutorials on Tensor Networks open source libraries**
  - **QUIMB** in python- [https://quimb.readthedocs.io/en/latest/index\\_tn.html](https://quimb.readthedocs.io/en/latest/index_tn.html)
  - ITENSOR.jl in julia - <https://itensor.org/>
  - TensorNetwork in python - <https://github.com/google/TensorNetwork>