



**THE GEORGE  
WASHINGTON  
UNIVERSITY**  
WASHINGTON, DC

**Machine Learning II  
Useful Links - Torch**  
**A. Jafari, M. Hagan**  
*Jan-20-2017*

## **Module 1 Useful Links**

### **Multilayer Networks**

Neural Network Design Text (See Chapters 11, 12, 13, 22, 25)

<http://hagan.okstate.edu/nnd.html>

Paper on Deep Multilayer Networks

<https://arxiv.org/pdf/1003.0358.pdf>

### **Lua and Torch**

Main torch website

<http://torch.ch>

Video tutorials on Torch

<https://github.com/Atcold/torch-Video-Tutorials>

Torch packages

<https://github.com/torch>

Neural network package for torch

<https://github.com/torch/nn>

Neural network graph package for torch

<https://github.com/torch/nngraph>

Torch cheatsheet

<https://github.com/torch/torch7/wiki/Cheatsheet>

Example multilayer training in torch

<https://github.com/torch/nn/blob/master/doc/training.md>

Torch for matlab users

[http://atamahjoubfar.github.io/Torch\\_for\\_Matlab\\_users.pdf](http://atamahjoubfar.github.io/Torch_for_Matlab_users.pdf)

Torch reference manual

<http://torch7.readthedocs.io/en/rtd/index.html>

Torch documentation package

<http://jucor.github.io/torch-doc-template/>

Lua reference manual

<https://www.lua.org/manual/5.3/>

Lua programming topics

<https://coronalabs.com/blog/2015/11/03/tutorial-treasury-luaprogramming-topics/>

Learn lua in 15 minutes (code)

<http://tylernelson.com/a/learn-lua/>

Tutorial on lua modules

[http://www.tutorialspoint.com/lua/lua\\_modules.htm](http://www.tutorialspoint.com/lua/lua_modules.htm)

Programming in lua (first edition)

<https://www.lua.org/pil/contents.html>

Lua and torch utilities

<https://github.com/facebook/fblualib>

Programming in Lua

<https://www.lua.org/pil/contents.html#P1>

Sample Code

<http://lua-users.org/wiki/SampleCode>