**To learn about Networking:**

1. Computer Networking Google Course - [Full Course](https://youtu.be/QKfk7YFILws) (Mostly Theory)
2. Udacity Networking for Web Dev - [Free Course](https://classroom.udacity.com/courses/ud256) (Tools usage)
3. PowerCert Animated Videos - [Information Technology PowerCert Animated Videos 45 videos](https://www.youtube.com/playlist?list=PL7zRJGi6nMRzHkyXpGZJg3KfRSCrF15Jg)
4. Are IP addresses unique - [article](https://residentialip.net/are-ip-addresses-unique/)
5. Linux Commands for networking - [article](https://haydenjames.io/linux-networking-commands-scripts/)
6. What is a Network Interface Adapter? - [article](https://www.easytechjunkie.com/what-is-a-network-interface-adapter.htm)
7. How Stuff Works: Networking - [Blogs](https://computer.howstuffworks.com/computer-networking-channel.htm)
8. Another Good (networking+Wifi) [playlist](https://www.youtube.com/playlist?list=PLZsZ2-6vg_Xi4eibCT2BNBqNEb15TPzF-)

**To learn more about WiFi-RF in general:**

1. [Radio Frequency for the Wi-Fi Professional](https://www.youtube.com/playlist?list=PLpdKaoNaDwSJkEMY21w2N2SO12CkGoY71)
2. [Five Fundamentals of RF You Must Know for WLAN Success](https://youtu.be/dwDRAqfA7GI)
3. About RF Wireless World - [Website](https://www.rfwireless-world.com/)
4. WiFi 5 - [article](https://www.signalboosters.com/blog/the-80211ac-wifi-standard-explained/)
5. WLAN 802.11ac Tutorial - [Blogs](https://www.rfwireless-world.com/Tutorials/WLAN-802-11ac-tutorial.html)
6. WiFi 6 - [article](https://www.techspot.com/article/1769-wi-fi-6-explained/) (not required but good to know)
7. WiFi Channels Explained [Blog](https://www.minim.com/blog/wifi-channels-explained-what-is-wifi-channel-width#:~:text=The%20width%20of%20a%20WiFi,aren't%20impacted%20by%20interference.) [Wiki](https://en.wikipedia.org/wiki/List_of_WLAN_channels)
8. WLAN:

* [Must watch playlist with all technicalities](https://www.youtube.com/playlist?list=PLPHjQ2v1B2TfJumy_OBBghOgS2_AJnzHz)
* [7 Wireless/WiFi network](https://www.youtube.com/playlist?list=PLSNNzog5eydvJG48PYnWnNY7-tQIfxTRb)
* [OFDM](https://www.youtube.com/watch?v=F6B4Kyj2rLw)
* [Multiple Antenna Communications](https://www.youtube.com/playlist?list=PLx7-Q20A1VYKwoWNCyWfErLArGLtKdS37)
* [WiFi 5 MIMO](https://www.youtube.com/watch?v=0fpyfPUyfic)

1. [Multiple Antenna Communications](https://www.youtube.com/watch?v=TC19gMQ6azE&list=PLx7-Q20A1VYKwoWNCyWfErLArGLtKdS37&index=1) - Important

**New to Linux?**

1. Blog form [Tutorials](https://www.tutorialspoint.com/unix/index.htm)
2. How To Mount/Unmount USB Drive from terminal [Blog](https://fossbytes.com/mount-unmount-usb-drive-on-ubuntu-linux/)
3. Linux Log files [Blog1](https://www.fosslinux.com/8984/how-to-check-system-logs-on-linux-complete-usage-guide.htm) [Blog2](https://phoenixnap.com/kb/how-to-view-read-linux-log-files)

**Tcpdump and Wireshark**:

1. PCAP: Packet Capture, what it is & what you need to know - [article](https://www.comparitech.com/net-admin/pcap-guide/)
2. Wonderful video on [**tcpdump**](https://www.tcpdump.org/) - [video](https://youtu.be/hWc-ddF5g1I)
3. Another with .pcap file saving details - [video](https://youtu.be/1lDfCRM6dWk), [article](https://www.comparitech.com/net-admin/what-is-tcpdump/)
4. WireShark - [getting started video](https://youtu.be/4_7A8Ikp5Cc), [opening pcap files](https://youtu.be/0wbyVbFLp0M),

**SSH:**

1. How Does SSH Works - [article link](https://www.hostinger.com/tutorials/ssh-tutorial-how-does-ssh-work)
2. Setting up ssh (general cases) - [article](https://www.hostinger.com/tutorials/ssh/how-to-set-up-ssh-keys)
3. Setup SSH on Your Router for Secure Web Access from Anywhere - [article](https://www.howtogeek.com/68061/setup-ssh-on-your-router-for-secure-web-access-from-anywhere/)
4. Enable SSH on Asus Routers (our case) - [article](https://www.htpcguides.com/enable-ssh-asus-routers-without-ssh-keys/)

**Research and Applications:**

1. [Human Activity Detection Using WiFi Signals and Deep Networks](https://youtu.be/rDC34awd0f8)
2. MobiSys 2020 - [Sensing with WIFI](https://youtu.be/sUDf-XT1f2M)

**My Blogs:**

1. Github for now - [Blogs](https://github.com/ShivamJoshi64/thesis/tree/master/BLOGS)

**Research Assist:**

1. Research Papers Spreadsheet - To Do
2. [Top 12 Materials that Block WiFi Signals](https://www.signalboosters.com/blog/top-12-materials-that-block-wifi-signals/)
3. [How Does WIFI Signal Penetrate Walls? (Illustration + Analogy)](https://www.youtube.com/watch?v=XWHzuTbJ1rU)

**THE guide to get started with ASUS-RT router and Nexmon-CSI tool:**

1. Their Paper: [Free Your CSI: A Channel State Information Extraction Platform For Modern Wi-Fi Chipsets](https://dl.acm.org/doi/abs/10.1145/3349623.3355477?casa_token=4pZMCAs1FNkAAAAA%3AeLX3uSveBmwmwzbX0hJL1PEunGFlT5FekxxjuuHO96oQlWjyv02tSF-6eEUumGWuqLuhc0-GmZ8l)
2. Their Repos:

* [Nexmon](https://github.com/seemoo-lab/nexmon/tree/master/utilities/nexutil)
* [Nexmon CSI](https://github.com/seemoo-lab/nexmon_csi/blob/master/README.md#analyzing-the-csi)

1. Best method - [link](https://github.com/nexmonster/nexmon_csi/discussions/2)
2. Getting Started guide on their github - [link](https://github.com/seemoo-lab/nexmon_csi#getting-started)
3. a long guide, if you plan to modify Nexmon\_CSI - [link](https://github.com/nexmonster/nexmon_csi/discussions/7)

**Maybe Useful:** <https://mycyberuniverse.com/linux/full-controling-the-asus-router-via-command-line.html>