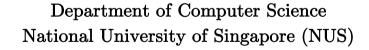
CS5284: Graph Machine Learning

Running Course Notebooks with Local Installation

Semester 1 2025/26

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• Install Python and run the notebooks on your OSX or Linux machine:

Local Installation for OSX & Linux

• Open a Terminal and type

```
# Conda installation

curl https://repo.continuum.io/miniconda/Miniconda3-latest-Linux-x86_64.sh -o miniconda.sh

curl https://repo.continuum.io/miniconda/Miniconda3-latest-MacOSX-x86_64.sh -o miniconda.sh

chmod +x miniconda.sh

./miniconda.sh

source ~/.bashrc

# Clone GitHub repo
git clone https://github.com/xbresson/GML2023.git

cd GML2023

# Install python libraries

conda env create -f environment.yml

source activate gnn_course

# Run the notebooks in Chrome
jupyter notebook
```

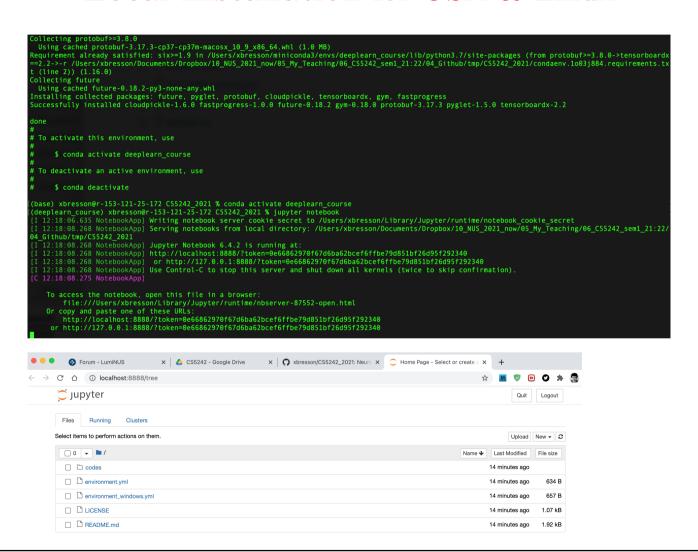
 $\underline{https://github.com/xbresson/CS5284} \quad \underline{2025?tab} = \underline{readme-ov-file\#local-installation-for-osx--linux}$

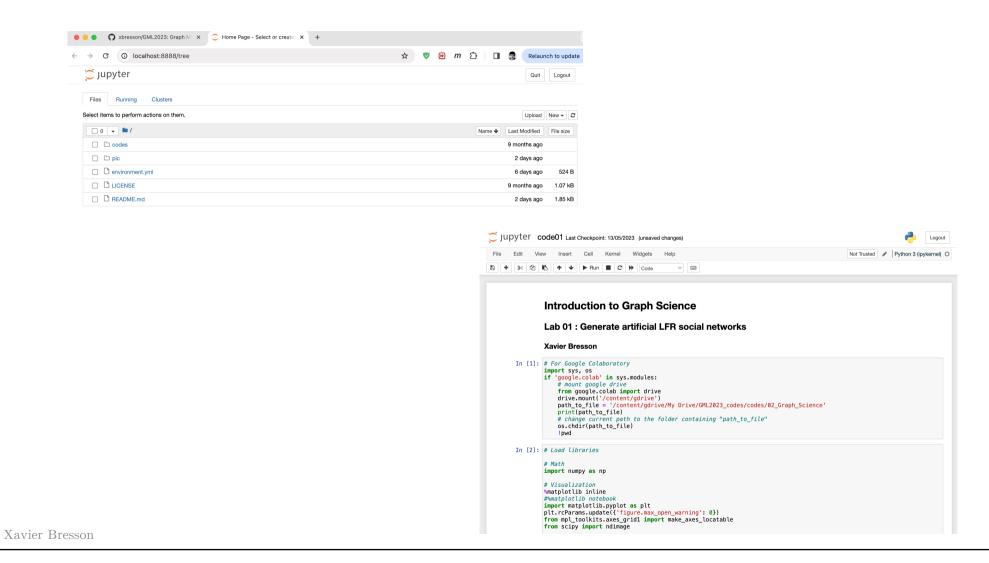
```
pkgs/main/noarch::wheel-0.36.2-pyhd3eb1b0_0
pkgs/main/osx-64::xz-5.2.5-h1de35cc_0
pkgs/main/osx-64::yaml-0.2.5-hafle333_0
pkgs/main/osx-64::zlib-1.2.11-h1de35cc_3
Preparing transaction: done
xecuting transaction: \
nstallation finished.
Oo you wish the installer to initialize Miniconda3
y running conda init? [yes|no]
no change
                 /Users/xbresson/miniconda3/bin/conda-env
no change
no change
no change
                /Users/xbresson/miniconda3/etc/profile.d/conda.sh
/Users/xbresson/miniconda3/etc/fish/conf.d/conda.fish
no change
                /Users/xbresson/miniconda3/shell/condabin/Conda.psm1
/Users/xbresson/miniconda3/shell/condabin/conda-hook.ps1
no change
no change
                 /Users/xbresson/miniconda3/lib/python3.9/site-packages/xontrib/conda.xsh
no change
no change
o action taken.
 you'd prefer that conda's base environment not be activated on startup,
  set the auto_activate_base parameter to false:
onda config --set auto_activate_base false
Fhank you for installing Miniconda3!
(base) xbresson@r-153-121-25-172 C55242_2021 %
```

```
ase) xbresson@r-153-121-25-172 CS5242_2021 % conda
usage: conda [-h] [-V] command ...
conda is a tool for managing and deploying applications, environments and packages.
Options:
ositional arguments:
 command
  clean
                   Remove unused packages and caches.
                   Compare packages between conda environments.
                   Modify configuration values in .condarc. This is modeled after the git config command. Writes to the user .condarc file
   config
                   (/Users/xbresson/.condarc) by default.
                  Create a new conda environment from a list of specified packages.

Displays a list of available conda commands and their help strings.
                   Display information about current conda install.
                  Initialize conda for shell interaction. [Experimental]
Installs a list of packages into a specified conda environment.
                  List linked packages in a conda environment.
                  Low-level conda package utility. (EXPERIMENTAL)
Remove a list of packages from a specified conda environment.
   package
                  Alias for conda remove.
                  Run an executable in a conda environment. [Experimental]
Search for packages and display associated information. The input is a MatchSpec, a query language for conda packages. See examples
   update
                   Updates conda packages to the latest compatible version.
                  Alias for conda update.
   upgrade
 ptional arguments:
                Show this help message and exit.
 -V, --version Show the conda version number and exit.
onda commands available from other packages:
base) xbresson@r-153-121-25-172 CS5242 2021 %
```

```
(base) xbresson@r-153-121-25-172 tmp % git clone https://github.com/xbresson/C55242_2021.git
Cloning into 'C55242_2021'...
remote: Enumerating objects: 201, done.
remote: Counting objects: 180% (201/201), done.
remote: Compressing objects: 180% (117/117), done.
remote: Total 201 (delta 82), reused 187 (delta 71), pack-reused 0
Receiving objects: 180% (201/201), 2.82 MiB | 6.62 MiB/s, done.
Resolving deltas: 180% (82/82), done.
(base) xbresson@r-153-121-25-172 tmp % cd C55242_2021
(base) xbresson@r-153-121-25-172 C55242_2021 % conda env create -f environment.yml
```





• Install Anaconda and run the notebooks on your Windows machine:

Local Installation for Windows

```
# Install Anaconda
https://repo.anaconda.com/miniconda/Miniconda3-latest-Windows-x86_64.exe

# Open an Anaconda Terminal
Go to Application => Anaconda3 => Anaconda Prompt

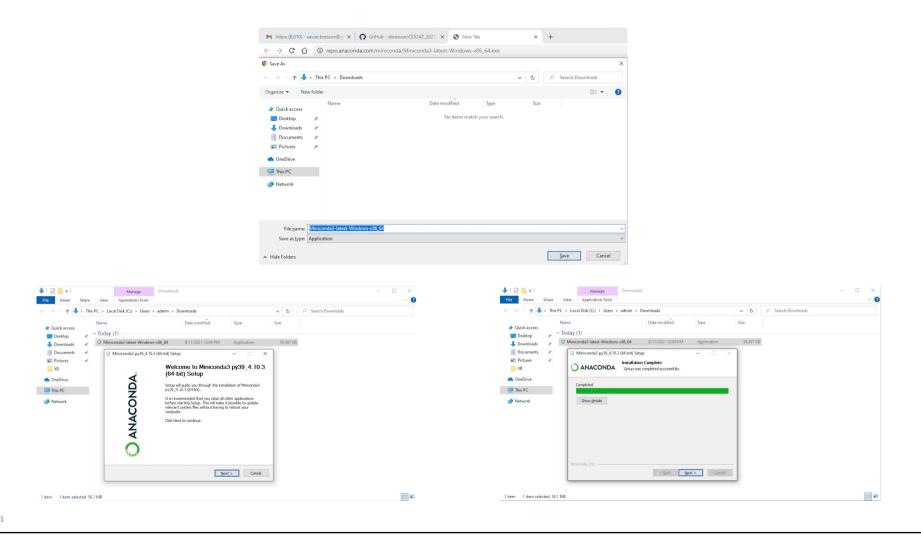
# Install git : Type in terminal
conda install git

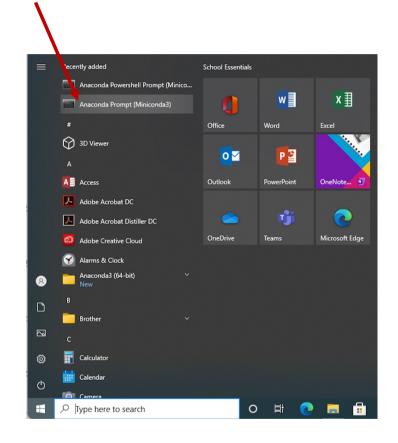
# Clone GitHub repo
git clone https://github.com/xbresson/GML2023.git
cd GML2023

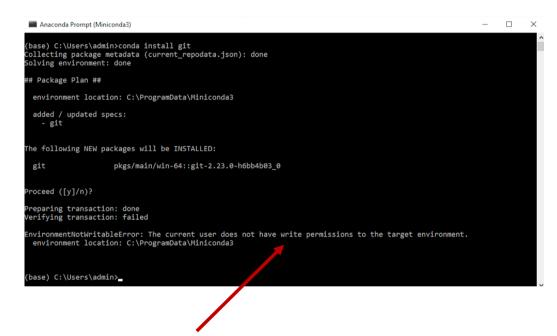
# Install python libraries
conda env create -f environment.yml
conda activate gnn_course

# Run the notebooks in Chrome
jupyter notebook
```

https://github.com/xbresson/CS5284 2025?tab=readme-ov-file#local-installation-for-windows







If you need admin rights to run Miniconda, then follow the next slide.

Secondary click then select "Run as administrator".

