Creating mne conda environment

To create the same mne environment that we are using on COGNESTIC-25 Virtual Machines, follow these steps below.

> **Note:** Because of different system settings and requirements, we do not guarantee it will work for you exactly in these steps.

STEP 0: Prerequisites

- **WINDOWS users**

    - **Install WSL** following instructions in the fMRI_analysis_on_Windows.pdf Steps **1 to 2.1.3**
    - Start your WSL terminal and **install Miniconda** - Step 2.5.1 in fMRI_analysis_on_Windows.pdf
    - Once inside WSL, follow the Linux instructions below.
- **MAC users**

    - If you haven't done so already, **install Miniconda** (or less preferably Anaconda) on your system.
    - Start your terminal and try following the steps below. We have not tested on Mac computers, but it should work as is.
- **LINUX users**

    - If you haven't done so already, **install Miniconda** (or less preferably Anaconda) on your system
    - Follow the steps below.

STEP 1: Download the MNE installer

- **WINDOWS (via WSL) and LINUX users**
  In the terminal, navigate to the directory where you want to save the installer and execute this command:
  ```
  wget https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-Linux.sh -O mne_installer.sh
  ```

- **MAC (intel) users**
  Navigate to the directory where you want to save the installer and execute this command:
  ```
  wget https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-macOS_Intel.pkg
  ```

- **MAC (Apple Silicon) users**
  Navigate to the directory where you want to save the installer and execute this command:
  ```
  wget https://github.com/mne-tools/mne-installers/releases/download/v1.9.0/MNE-Python-1.9.0_0-macOS_M1.pkg
  ```

STEP 2: Install MNE (MAC users might not need this step)

- Deactivate any active conda environments: `conda deactivate`

- Check the location of your conda environments: `conda info`
  Look for line ***envs directories : /home/username/miniconda3/envs***.
  That path is the parent folder where conda keeps your environments.

- In the terminal execute (replacing the */home/username/miniconda3/envs* with the path to your environments):
  ```
  sh ./mne_installer.sh -b -p /home/username/miniconda3/envs/mne
  ```

    > **Note:** the *-p* option requires the full path where you want the environment installed, not just the environment name. That's why we use */home/username/miniconda3/envs/mne* rather than just *mne*.

STEP 3: Install additional packages

- Activate the new mne environment: `conda activate mne`

- Run these commands:

- `pip install levenshtein`
- `pip install rsatoolbox==0.1.5`
- `pip install mtrf`
- `python -m ipykernel install --user --name mne --display-name "Python (mne)"`

STEP 4: Verify the installation

Run: `python -c "import mne; mne.sys_info()"`

If everything is set up correctly, this will print system and package information for your **mne** environment.

Now you should have the same **mne** environment we are using on the VMs.