

Oscar: MATLAB

Loading and Launching MATLAB

1. Open the Terminal and use the following commands at the command line.
2. `module avail matlab` to list all the available matlab versions (if running Oscar in PuTTY, pasting text is done by right-clicking).
3. `module load matlab` to load the latest version of matlab (R2023a). Other versions can be specified with the command `module load matlab/R2019a`.
4. `matlab` to launch the MATLAB app.

Installing MATLAB Packages such as YALMIP

MATLAB script packages, such as [YALMIP](#), can be installed directly by the user on their Oscar account.

1. Open the Terminal and connect to Oscar.
2. Navigate to your home folder by typing `cd ~`
3. `mkdir -p MATLAB`
4. `wget -O yalmip.zip https://github.com/yalmip/yalmip/archive/master.zip`
5. `unzip yalmip.zip`
6. In MATLAB, add the YALMIP-master directory to your path.
 1. In the MATLAB file browser, navigate to the MATLAB folder you created in your home folder. `cd ~/MATLAB`
 2. Right click on the YALMIP-master folder.
 3. Select Add to Path > Selected Folders and Subfolders. This adds the YALMIP folders to your path.

7. To save your MATLAB path, use the savepath command in the MATLAB command prompt.

```
savepath ~/MATLAB/pathdef.m
```

YALMIP also requires a solver like [SDPT3](#). The steps below add SDPT3 to MATLAB.

1. Open the Terminal.

2. `cd ~/MATLAB`

3. `wget -O sdpt3.zip https://github.com/sqlp/sdpt3/archive/master.zip`

4. `unzip sdpt3.zip`

5. In MATLAB, add the sdpt3 directory to your path.

1. In the MATLAB file browser, navigate to the MATLAB folder you created in your home folder. `cd ~/MATLAB`

2. Right click on the sdpt3-master folder.

3. Select Add to Path > Selected Folders and Subfolders. This adds the SDPT3 folders to your path.

6. To update/save your MATLAB path, use the savepath command in the MATLAB command prompt. `savepath ~/MATLAB/pathdef.m`

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