

Instruction Guide for adding multiZ package to PYTHONPATH using anaconda.

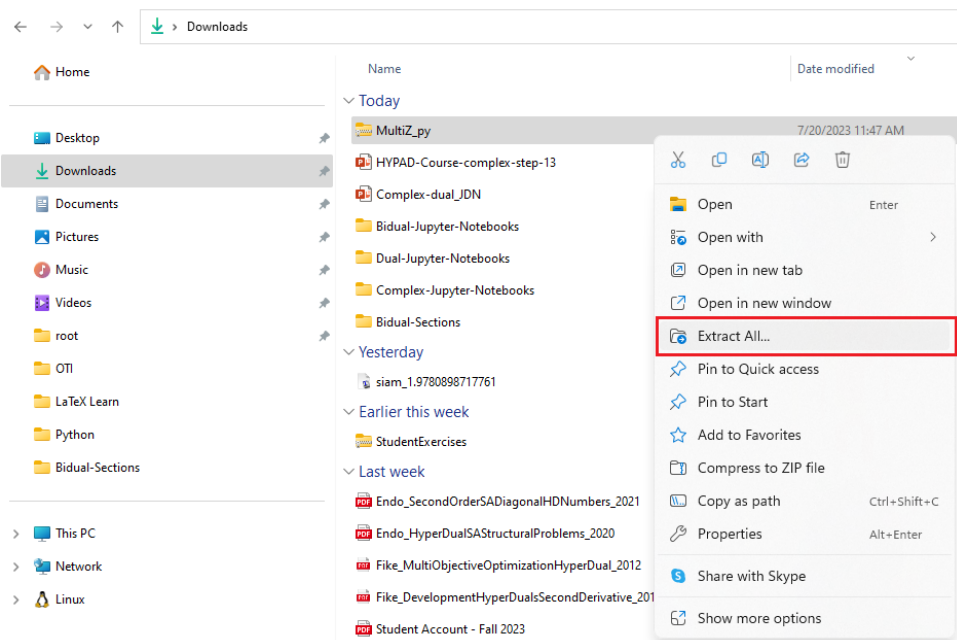
- 1.) Download the multi-Z package by clicking on the link shown below.

MultiZ: A Library for Computation of High-order Derivatives Using Multicomplex or Multidual Numbers

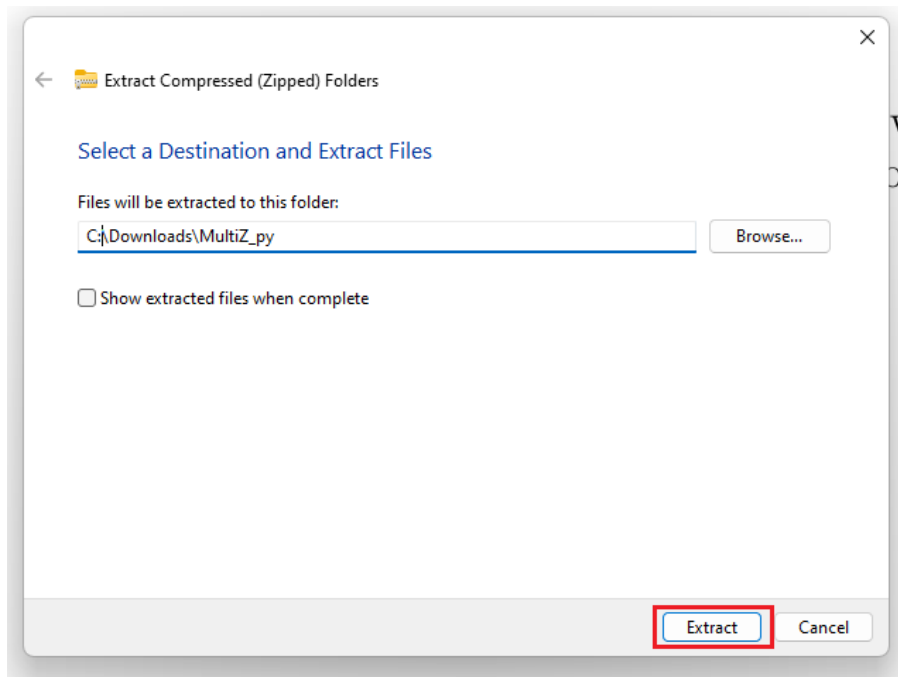
▲ Multi-Z Download

MultiZ_py

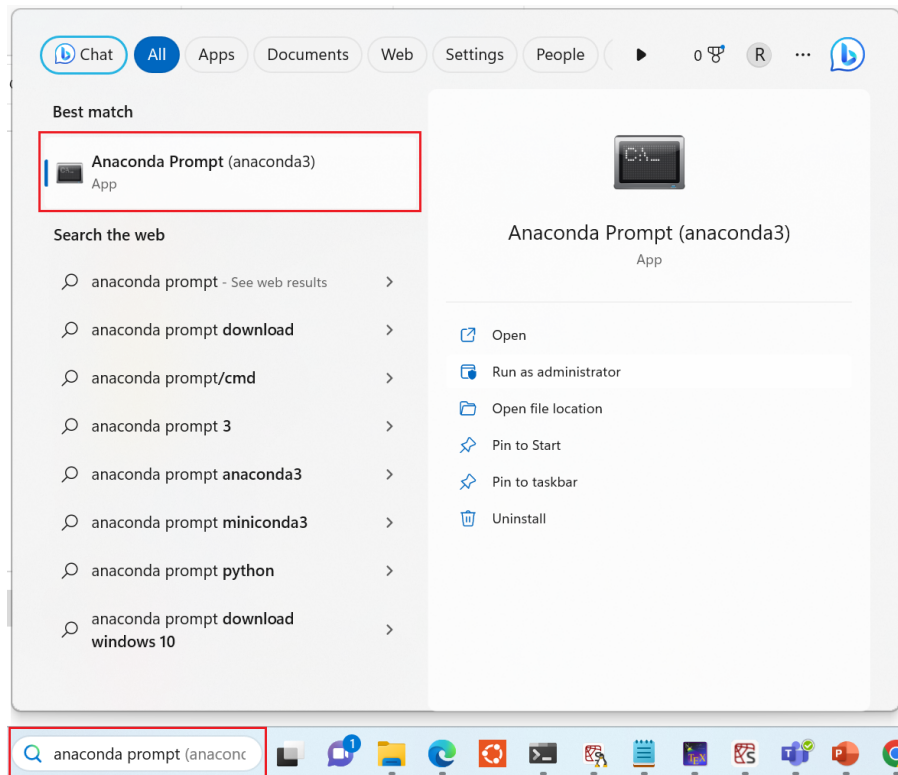
- 2.) Once you have downloaded the multi-Z package navigate to the location of the download, for example C:/Downloads. Once here extract the contents of the zipped folder by right clicking on the zipped folder and clicking extract all, as shown below.



3.) Select the destination where you would like to extract these files and click extract. You can leave the destination as default of choose a specific location.



4.) Open the anaconda prompt. If you are using windows 11 this can be done by searching for anaconda prompt in the search bar and clicking the Anaconda Prompt app, seen below.



- 4.) Once you have opened the Anaconda prompt navigate to the location of the unzipped MultiZ_py folder. You can use the command `cd` to change the directory you are currently at in the anaconda prompt.

```
Anaconda Prompt (anaconda) x + v
(base) C:\Users\Rober>cd Downloads
(base) C:\Users\Rober\Downloads>cd MultiZ_py
(base) C:\Users\Rober\Downloads\MultiZ_py>|
```

- 5.) Step into the MultiZ_py folder by entering the command “`cd MultiZ_py`”

```
(base) C:\Users\Rober\Downloads\MultiZ_py>cd MultiZ_py
(base) C:\Users\Rober\Downloads\MultiZ_py\MultiZ_py>|
```

- 6.) Add the multiZ folder to the PYTHONPATH by entering the command “`conda develop .`”

```
(base) C:\Users\Rober>cd downloads
(base) C:\Users\Rober\Downloads>cd MultiZ_py
(base) C:\Users\Rober\Downloads\MultiZ_py>cd MultiZ_py
(base) C:\Users\Rober\Downloads\MultiZ_py\MultiZ_py> conda develop .|
```

Thats it! You can now import multiZ like you would any other package in python. For example if you want to import the mdual module of the multiZ package you would call:

```
import multiZ.mdual as md
```
