

Install the `gfortran-8.2-Mojave.dmg`.

Go to the path where you extracted 'at' folder. (In Mac you don't need windows binary, you need to compile using gfortran compiler.)

Note: I know gfortran is now part of gcc but newest `at` version still only works with older gfortran compilers. If you have Catalina as well, don't worry this will still work on Mojave as well as on Catalina. I had tested it.

Once you installed. Close all the terminals.

Open new terminal. Do as follows :

In your terminal, type this : `echo $PATH`

Above command give you current path in your zsh file, If you have one.

Add bellhop to your zsh file. You can use these commands in terminal:

```
> cd
> nano .zsh
```

Copy and paste below list (change the path)

```
export PATH=your_local_macOS_path/at:your_local_macOS_path/at/Bellhop:
$PATH$
```

For me, it was :

```
export PATH=/Users/jaypatel/Downloads/at:/Users/jaypatel/Downloads/at/
Bellhop:$PATH$
```

And now source ~/.zsh to your terminal using this command :

```
> source ~/.zsh
```

Install Jupiter notebook

Execute following commands in your terminal :

```
> sudo -H python3 -m pip install jupyter
```

Install `ARLPY`

Execute following commands in your terminal :

```
> sudo -H python3 -m pip install arlpy
```

Once finish, go to your terminal and cd into your folder where you put bellhop.ipynb and open Jupiter notebook using following command :

```
> jupyter notebook
```

This will launch your default browser and you can just click on the bellhop.pynb and open that. Start running your code.

Troubleshoot:

1. If you have running into a problems that said permission denied, check the folder properties to make sure the user logged in has sufficient right to execute any exe files.

2. To check you have correctly set your PATH for acoustic toolbox, please type this in your command prompt

```
> which bellhop.exe
```

It will show you path of your bellhop.exe, same like this,

```
jaypatel@Jays-iMac samplenotebook % which bellhop.exe  
/Users/jaypatel/Downloads/at/Bellhop/bellhop.exe  
jaypatel@Jays-iMac samplenotebook %
```