

A wide-angle photograph of a night sky filled with stars. A bright comet is visible in the upper right quadrant, leaving a long, luminous, white-tipped tail that sweeps across the upper portion of the frame. The foreground and middle ground are dominated by the dark silhouettes of rolling hills and mountains. A large, light-colored body of water, possibly a lake or reservoir, is nestled among the hills in the lower center. The horizon shows a gradient from deep blue to a warm orange and yellow glow, likely from a sunset or sunrise.

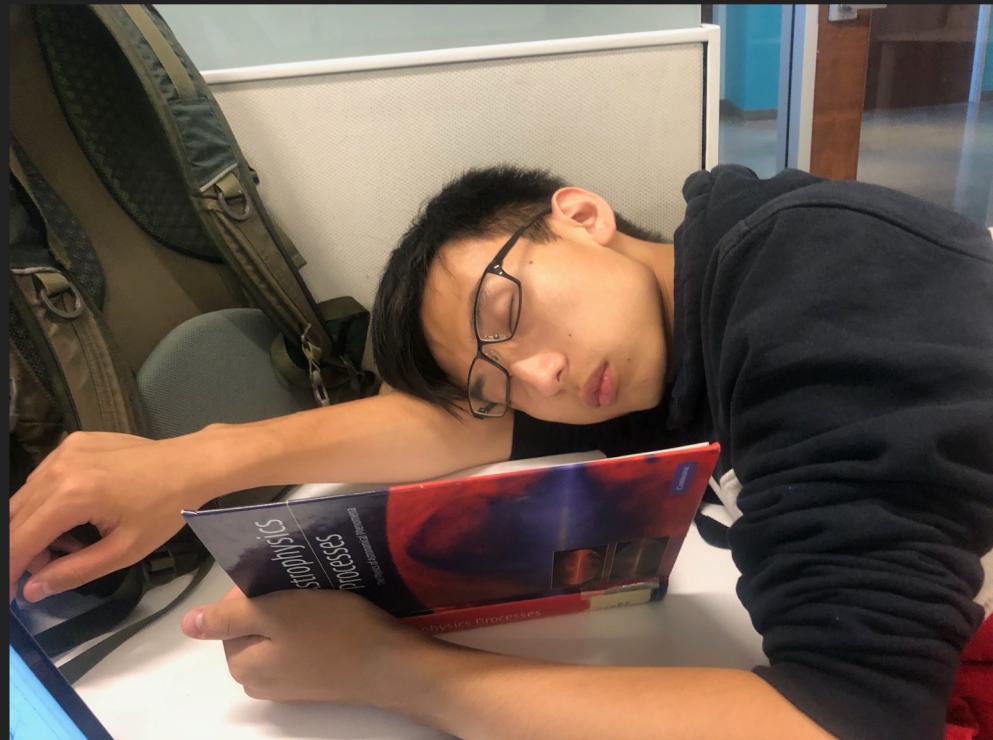
Welcome To the Python DeCal

<https://forms.gle/s3mVMFJFKiYGdfV7>

Introductions

Yilun Ma

- 3rd-year Astro + Physics
- Not from the US
 - NOT EVEN IN THE US LOLOL
- (Astro)photographer
- I used to live in Campbell
 - Never sleeps
- Research interests
 - Planet formation
 - Galaxy evolution
 - AGN outflows
 - Surely not cosmology



Wendy Wan (She/Her/Hers)

- Third year physics major
- Vice president of SPS (COME TO OUR EVENTS)
- Doing condensed matter (non-astro) research
 - Superconductors
 - Quantum materials
 - Experiment + Computation



Wendy Wan

James Sunseri

- (He/Him/His) Pronouns
- 3rd Year Astrophysics + Physics
- Mega Nerd, love comics and superheroes
- Amateur Guitar, Ukulele, and Piano Player
- Research Interests:
 - Gravitational Waves, Neutron Stars & Black Holes
 - Magnetohydrodynamics Simulations
 - Cosmology
- I dye my hair crazy colors sometimes...



Who are you?

Tell us your:

- Name (Pronouns)
- Year + Major
- Fun Fact

Zoom Rules

- Respect others.
- Don't talk over others
- Please mute yourselves during lectures unless you want to ask questions
- Feel free to ask questions or comment in the chat
- We encourage you to turn on your videos :D (but not required)

Syllabus

Installation Guides

<https://docs.anaconda.com/anaconda/install/>

Mac OS

- Open “Terminal.” (Applications/Utilities/Terminal)
- First, install brew (a package manager on Mac) using the following command:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"
```

- Then confirm the installation was successful by typing:

```
brew --version
```

- Install wget

```
brew install wget
```

Mac OS

- Next, we need to install Anaconda, which contains python and other scientific packages we might use.

```
wget -O install_anaconda.sh https://repo.continuum.io/archive/Anaconda3-2020.07-MacOSX-x86_64.sh
```

- Install anaconda

```
bash install_anaconda.sh
```

- Restart the Terminal app and reopen
- Check the anaconda installation:

```
conda --version
```

Mac OS

- Run the following commands to create a new conda environment--each conda environment has its own package version, allowing easy switching between different versions of python

```
conda create --name pydecal python=3.6  
source activate pydecal  
conda install -n pydecal jupyter pandas numpy matplotlib  
pip install okpy
```

- From now on, you can switch to the pydecal env with “activate pydecal”, and switch back to the default env with “deactivate”.
- Use brew to install the latest version of git:

```
brew install git  
git --version
```

Windows

- Download python 3.6 installer for Windows (download the one that matches your computer):

32-bit: <https://repo.anaconda.com/archive/Anaconda3-2020.07-Windows-x86.exe>

64-bit: https://repo.anaconda.com/archive/Anaconda3-2020.07-Windows-x86_64.exe

- Leave all options as default, and make sure both “add to path” and “register” are checked
- Proceed with installation
- Confirm installation by opening “Anaconda Prompt”

Windows

- Run the following commands to create a new conda environment--each conda environment has its own package version, allowing easy switching between different versions of python

```
conda create --name pydecal python=3.6  
activate pydecal  
conda install -n pydecal jupyter pandas numpy matplotlib  
pip install okpy
```

- From now on, you can switch to the pydecal env with “activate pydecal”, and switch back to the default env with “deactivate”.

Windows

- You might have git installed. Type “git” into Anaconda Prompt. If that doesn’t throw an error, you can skip these steps.
- If you don’t have git installed, type the following into the Anaconda Prompt:

```
conda install -c anaconda git -y
```

- Verify that you have git installed using “git --version”

Linux

- Note: these instructions assume that you have `apt-get` (Ubuntu and Debian). For other Linux distributions, substitute the available package manager.
- Install `wget`:

```
sudo apt-get install wget
```

- Download the Anaconda installation script (64-bit):

```
wget -O install_anaconda.sh https://repo.continuum.io/archive/Anaconda3-2018.12-Linux-x86_64.sh
```

- For 32-bits:

```
wget -O install_anaconda.sh https://repo.continuum.io/archive/Anaconda3-2018.12-Linux-x86.sh
```

```
bash install_anaconda.sh
```

Linux

- Run the following commands to create a new conda environment--each conda environment has its own package version, allowing easy switching between different versions of python

```
conda create --name pydecal python=3.6  
source activate pydecal  
conda install -n pydecal jupyter pandas numpy matplotlib  
pip install okpy
```

- From now on, you can switch to the pydecal env with “activate pydecal”, and switch back to the default env with “deactivate”.

Linux

- Now install the latest version of git

```
sudo add-apt-repository ppa:git-core/ppa  
sudo apt-get update  
sudo apt-get install git  
git --version
```

- You may also remove the `install_anaconda.sh` script from your computer, as it's quite large.