Elena Georgieva Vocal Tuning Project NYU DS 1008 Spring 2022 GitHub: https://github.com/elenatheodora/TUNEt (https://github.com/elenatheodora/TUNEt)

In [1]:
```python
import numpy as np
import librosa
import pandas as pd
import IPython.display as ipd
import matplotlib.pyplot as plt
import librosa.display
import os
import subprocess
from IPython.display import Audio
import base64
import pedalboard
from scipy.io.wavfile import write
import glob
import shutil
```

In [ ]:
```python
## rename audio files so .wav isn't a typo twice
## Load audio files
path = "/Users/elenageorgieva/Desktop/vtd/train/shifted"

raw_filenames = os.listdir(path)
all_filenames = [f for f in raw_filenames] # raw_filenames[0:3] to tes

for file in all_filenames:
    if (file == ".DS_Store"): # weird error, ignore .DS_Store
        continue
    print(file)
    parts = file.split('.wav') #[abc, 2000.jpg]
    new_name = parts[0]+ parts[1] + '.wav'
    print(new_name)
    os.rename(os.path.join(path, file), os.path.join(path, new_name))
```

In [20]:
```python
## Rename output files
path = "/Users/elenageorgieva/Desktop/vtd/train/output"

raw_filenames = os.listdir(path)
all_filenames = [f for f in raw_filenames] # raw_filenames[0:3] to tes
semitones_arr = [0.1, 0.2, 0.3, 0.4, 0.5, -0.1, -0.2, -0.3, -0.4, -0.5

for file in all_filenames:
    #print(file)
    if (file == ".DS_Store" or file =="duplicates"): # weird error, ig
        continue
    dest_dir = path+"/duplicates"
    src_file = os.path.join(path, file)
    for amount in semitones_arr:
        shutil.copy(src_file,dest_dir) #copy the file to destination d
        dst_file = os.path.join(dest_dir,file)
        parts = file.split('.wav')
        filename = parts[0] + "_" + str(amount)+'.wav'
```

```python
            new_dst_file_name = os.path.join(dest_dir, filename)
            #print(new_dst_file_name)
            os.rename(dst_file, new_dst_file_name)#rename
            #os.chdir(dest_dir)
```

In [ ]:

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