SETTING UP MULTI-AUDIO OUTPUT FOR ZOOM
Additional Instructions for Using 2 Microphones

Setup Guide by
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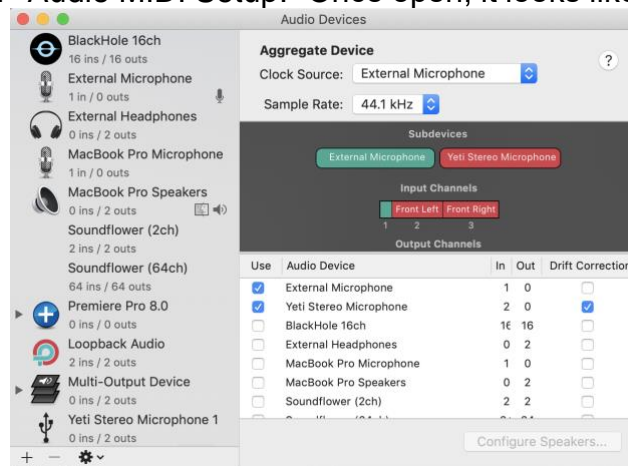**jessicarajko@wayne.edu**

READ ME FIRST:

The following document is an addition to the setup guide for streaming both your music and external microphone audio directly into Zoom for free. I had a few people ask how to mic both the instructor and an accompanist and port both live audio signals into Zoom. This requires the following one additional step and replacing what you do for a couple other steps.

If you choose to use multiple mics, you will need a way to connect them all to your computer. I recommend looking at USB mics as an option. In my test setup, I used a headset mic connected to my headphone jack and a USB mic, but you could probably use 2 USB mics if that works better for you. If you want to connect more than 2 mics, please contact me.

Additional Step: Create an Aggregate Device

- Open Audio MIDI Setup: You can find it by going to /Applications/Utilities OR search your hard drive for "Audio MIDI Setup." Once open, it looks like this:
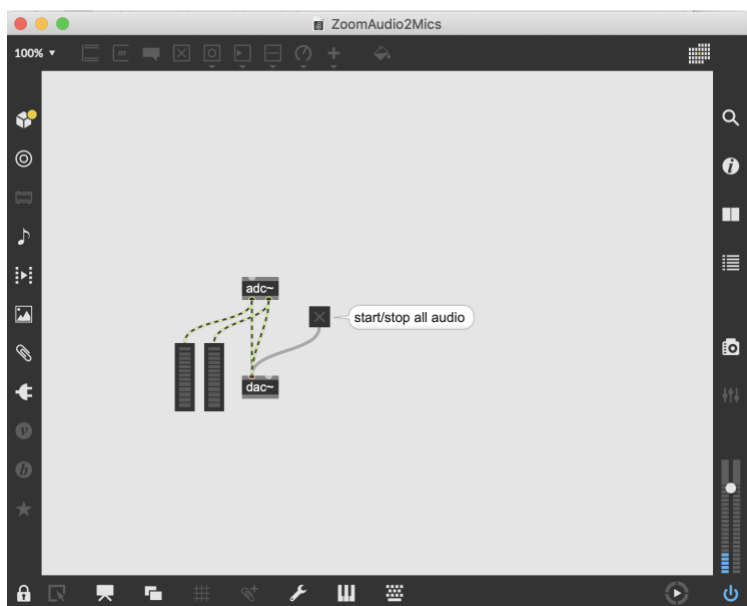

- Click the '+' button in the bottom left corner and select "Create Aggregate Device"
- In the panel that appears on the right, select your two external microphones.

    You can see how I setup my aggregate device in the screenshot above using an external headset and a USB mic.

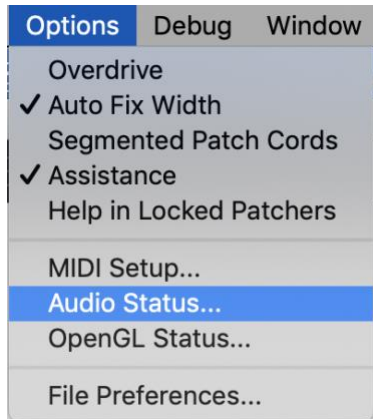## REPLACING STEP 4: Download and Open ZoomAudio2Mics.maxpat

- Scroll down to where it says ZoomAudio2Mics.maxpat.zip. Click on it and then click on "Download."

- Open ZoomAudio2Mics.maxpat. It should look like this. Note: It looks very similar to the other Max patch, but it's not the same.
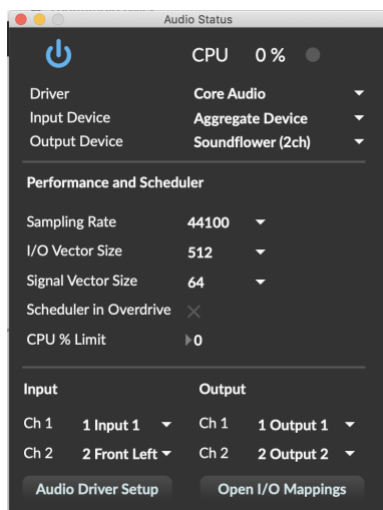

- Once the audio settings are arranged in Max 8 (see next step), then all you should have to do is open this file. To test, you must have your external microphones hooked up to your computer. Try speaking into the microphones. You should see the left bar light up as one mic and the right bar light up as the other mic.

REPLACING STEP 5: Setup Max 8 Audio Status

- While still in Max 8, look at the top bar and find "Options." Click on it and then select "Audio Status."

- At the top of the window, change your input to "Aggregate Device" and your output to "Soundflower (2ch). This integrates both your external microphones into a single channel routed through Soundflower.
- Close the "Audio Status" window, but keep Max 8 open. You can minimize or hide it at this point.

That's it!!
All other settings and instructions from the original setup document are the same.