This worked for me but yours could be different

1. Install VS Code and Python, also on VS Code need to install Python and C++ extensions *(C++ bc there’s .cpp file in the toolbox, do we need to have it in Python?)*

2. (optional but recommended by chat) set up Python environment

In VS Code Terminal:

python -m venv csi\_env

Mac/Linux:

source csi\_env/bin/activate

Windows:

.\\csi\_env\\Scripts\\activate



3. Install Required Libraries

Open the Terminal (in VS Code) and install:

pip install numpy scipy matplotlib scikit-learn



4. Clone the Repository (use the --recursive flag to ensure submodules are initialized:)

git clone --recursive https://github.com/wifisensing/PicoScenes-Python-Toolbox.git

cd PicoScenes-Python-Toolbox

Install Dependencies:

Ensure you have Python 3 installed. Then, install the required Python packages:

pip install -r requirements.txt

Build extension:

python3 setup.py build\_ext --inplace

Note: may need to change setup.py and picoscenes.cpp in PicoScenes-Python

-Toolbox, I uploaded the modified files in Python PicoScenes codes folder

5. Put parse\_csi.py, csi\_spectrogram.py, and our data.csi file in the same folder as the toolbox,change sys.path.append('/Users/feiwang/Documents/VSCode/PicoScenes-Python-Toolbox')

of parse\_csi.py and

csi\_path = os.path.join(os.path.dirname(\_\_file\_\_), "Fei\_walk2.csi")

of csi\_spectrogram.py to your own, should be able to run csi\_spectrogram.py and generate spectrogram now hopefully