Code for hearing aid optimization project.

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Sent: Tuesday, December 10, 2019 2:38 PM
To: Wirtzfeld, Michael
Attachments: Optim_2019.zip (7 MB)

Hi Michael,
I realized, that I really need some help on the project. So I asked Ian, if I could ask you to look over the main parts of the code I have been trying to run on the cluster. And he agreed. Would you be fine with testing the code? The last time, I ran it on the cluster it did not run through and the minimal examples I tested on my own computer did. Please tell me, if you can make time to overlook the code.

Firstly, it would be good if a second pair of eyes took a look, before I try running it on the cluster again. Secondly, Would you have any suggestions to speed it up?

I attached a zip-Folder. The most important pieces are the test_speech_gains2a, gain_simulation, and PSTH_may. The code is written for Octave, as you already know, I guess.

Be careful, the code as it is, runs just over the first phoneme, please change the loop over the phonemes is in gain_simulation, l.45.
I have to admit, I don't know, how much you have worked on the optimization projects. So just in case, for an overview of the gain optimization strategy, I found Faheem Dinaths master thesis most helpful. I included it in the subdirectory 'LIT'.

Best,
Helen