

## D. Gibbon, Guangzhou Prosody Lectures

### End of course assignment

Task:

1. Write a report in PowerPoint format, in the form of an instruction manual for a phonetics learner:
  1. Formulate instructions on how to use Praat:
    1. Record a speech file of yourself reading a short poem in Chinese or in English (if in Chinese, please provide an English translation).
    2. View the audio waveform (oscillogram):
      1. with and without the pitch (fundamental frequency) track:
      2. with and without the spectrogram.
    3. Extract the list of pitch values, put them into a CSV file, and read it into Excel, then calculate the average pitch, and produce a graph of the pitch values, with a trend line and a line showing the mean (average) value.
    4. Create annotations, using “\_” for pauses,
      1. of syllables,
      2. of words,
      3. of any other tier of your own choosing.
      4. Note that there must be a pause at the beginning, at the end and in the middle of the annotation!
      5. Save the annotation file (TextGrid file) with an informative file name which includes your own name (Chinese and English).
    5. Save the images from the tasks described above,
      1. as screenshots, or
      2. as Praat drawings.
  2. Formulate instructions on how to use TGA (Time Group Analyzer):
    1. Examine the demonstration pages for Mandarin, Farsi and English.
    2. On one of these pages, analyse your TextGrid file:
      1. Set the correct tier name and pause symbol.
      2. Delete the existing annotation in the TextGrid field.
      3. Read your TextGrid file into a plain text editor.
      4. Copy and paste your text into the TGA annotation field.
      5. Calculate the results.
      6. Save the statistics and the left-hand Wagner Quadrant image.
      7. Save the table at the end of the TGA results as a CSV file, and analyse with Excel, Calc or other spreadsheet.
  3. In the PowerPoint file, include:
    1. descriptions of your recording,
    2. your images,
    3. your audio file or files,
    4. the analysis results,
    5. together with your own instructions on how to perform the above tasks, remembering that you are writing a manual for a phonetics learner!
  2. Put your PowerPoint file, with the images and audio files, into folder, then into a ZIP archive file, with a sensible name like “Assignment\_Larissa\_20191119.zip.
  3. Together with your classmates, create a cloud server account for your files, which I can also access, and put your ZIP files into this account. You should do this before 15<sup>th</sup> December.
  4. I will grade your files and send the list of results to Prof. Gong within one week.

I’m expecting very good grades, so do your best – feel free to test the instruction manual on your friends, and good luck!