Gender recognization by voice

Motivation: thanks to identifying gender by voice people can create some devices that through voice we can know exactly people. For example, iphone has a feature that can identify owner by face or fingertip. However nowadays technology has developed some guys may have tricks to fake signature or face. Therefore, using voice because each people often have different voice , nobody has same one we should keep information in a safe mode.

Hypothesis:

The voice samples are pre-processed by acoustic analysis in R using seewave and tuneR packages.

The voice speech of typical adult amle will have a fundamental frequency from 85 to 180 Hz, and that of a typical adult female from 165 to 255 Hz . Analysing and measuring data such as acoustic properties of each voice people could recognize the maile voice or female voice.