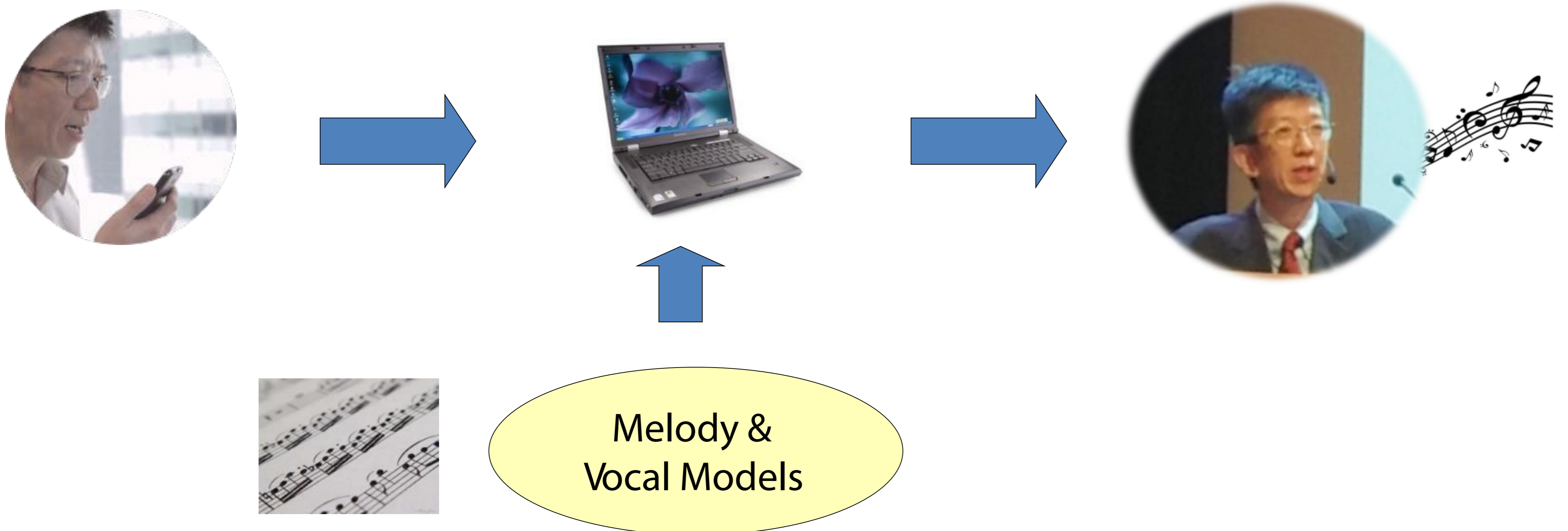


LET'S PERFECT EVERYONE'S SINGING

Sing like a professional singer! Just read out the lyrics of the song into the App, and wait for the App to convert your speech into singing in your own voice!



Technologies

- ❖ Speech and singing analysis
- ❖ Temporal alignment between speech and singing
- ❖ Parameterization of speech signals
- ❖ Converting speech to singing parameters
- ❖ Synchronizing singing with music
- ❖ Synthesis of singing signals
- ❖ Modeling of singing techniques, vibrato, singing formant, resonance tuning

Singing voice modeling

- ❖ Context-dependent Hidden Markov Model (HMM)
- ❖ Control models – HMM, Gaussian mixture model (GMM), etc.
- ❖ Deep Learning

Applications

- ❖ Karaoke systems
- ❖ Singing synthesis
- ❖ Speech therapy
- ❖ Training and evaluation of singing

For more info email haizhou.li@nus.edu.sg or elekarv@nus.edu.sg