VOICE CONVERSION
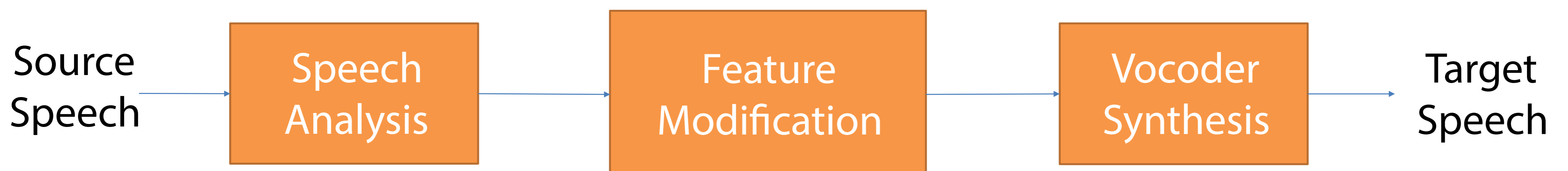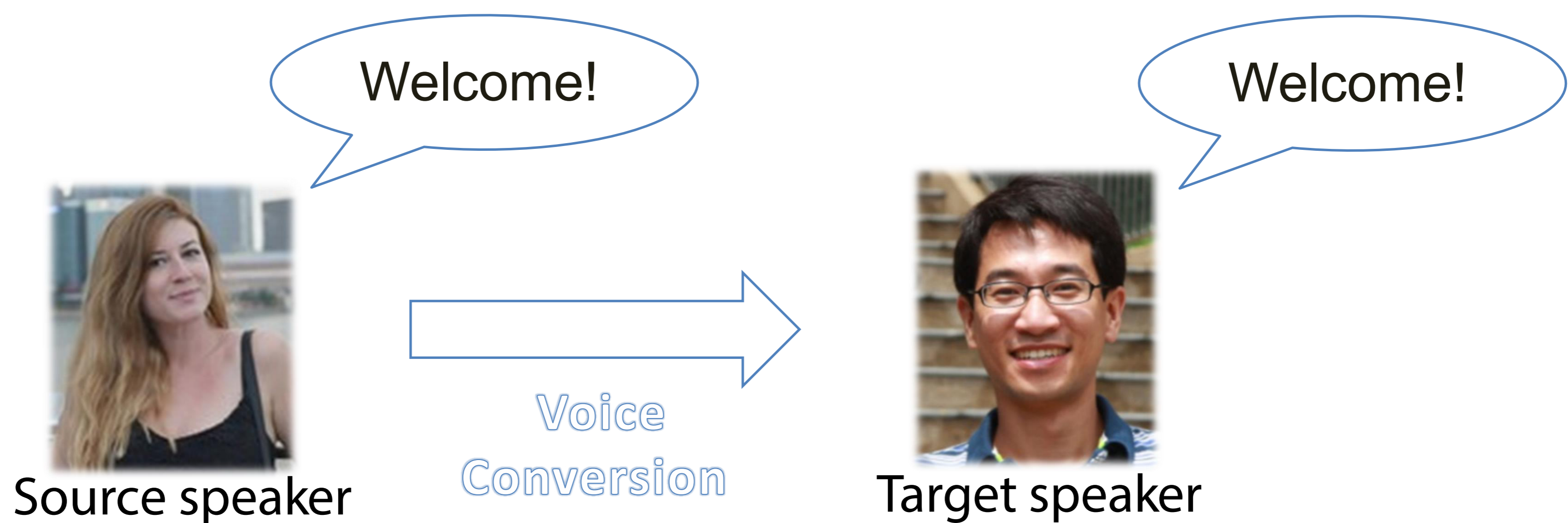
To modify one's voice to sound like that of the other.

Technologies

❖ Speech analysis and synthesis
❖ Vocoders (STRAIGHT, WORLD, and WaveNet)
❖ Temporal alignment between source and target speakers
❖ Prosody analysis and conversion
❖ Spectral feature analysis and conversion

Feature Modification

❖ Traditional approaches: GMM, DKPLS, sparse representation
❖ Deep learning techniques: DNN, LSTM, GAN

Applications

❖ Personalized speech synthesis
❖ Dubbing of movies and games
❖ Cross-lingual voice conversion

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