Speech Production and Perception Breakout Session

Our Charge

- **Identify most promising (revolutionary) directions of research**

- **Discuss a roadmap for technology dissemination**
  - To students, educators, and researchers
  - For teaching, research, and application development

General Discussions

- **Production research can help ASR**
  - Timing information
  - Pronunciation modeling

- **Audio/visual symbiosis**

- **Structure of production models are not precise (e.g., aerodynamics) and are computationally costly**

- **Perception research focuses on discrimination**

Production: Research Directions

- **Create infrastructure for studying production**
    - Large corpora of simultaneously recorded acoustic and articulatory data
- **Characterize inter- and intra-speaker variabilities**
- **Articulation, syllable structure, and multi-tier interactions**
- **Understand the articulatory basis of "disfluency"**
- . . .

Perception: Research Directions

- **More Miller/Nicely-like studies (using nonsense words)**
- **Lexical access strategies**
- **Combining perception and production research**