

***IPRO 316***

***Improving Voice Recognition Prompts***

***Fall 2010***



# *Background*

- Voice recognition
- Hyperarticulation
- Talker characteristics



# *Problem and Goals*

- Problem
  - Error prompts induce hyperarticulated speech
- Goals
  - Find characteristics within speech to prevent hyperarticulation



# *Team Structure*

- Team Leader: Naomi Peterson
  - Test Administration: Andy Bossemeyer, Robert Millonzi, Alex Webster, Nithin Winston
  - Data Analysis: Vincent Echavarria, Shawn Gopal, Gabriel Klansky, Ruth Morrison
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# *Pre-experiment*

- What talker characteristics lead to the most intelligible speech?
  - Collected and analyzed existing error prompts
  - Testing 2 variables
    - Rate of Speech
    - Inflection
  - Developed simulated speech recognition test
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# *Experiment*

- Recorded 80 participants over 6 days
- Pizza and raffle incentive
- Ethics

# *Results*

- Compared pre-error and post-error speech
  - Inconclusive for rate of speech
  - Low inflection performed better than normal inflection
  - Graph?
  - Hyperarticulation?
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# *Analysis*

- Explanation of results
- Application of our results
- Possible changes for further IPROs





*Questions?*

