

IPRO 343

**Improving Communication
Quality of the Drive-Thru
Experience**

Statement of the Problem

- ❑ In the quick-service restaurant (QSR) industry, a 2007 QSR Consumer Drive-Thru Preference Survey found that “speaker communication” was ranked as “important” by a significant proportion of those surveyed.
 - ❑ “Communications via speaker” received a satisfaction rate from only about a third of the consumers surveyed.
 - ❑ Thus, in the area of communication, a gap exists between consumer ratings of importance and satisfaction, indicating a critical need (by industry standards) for improvement.
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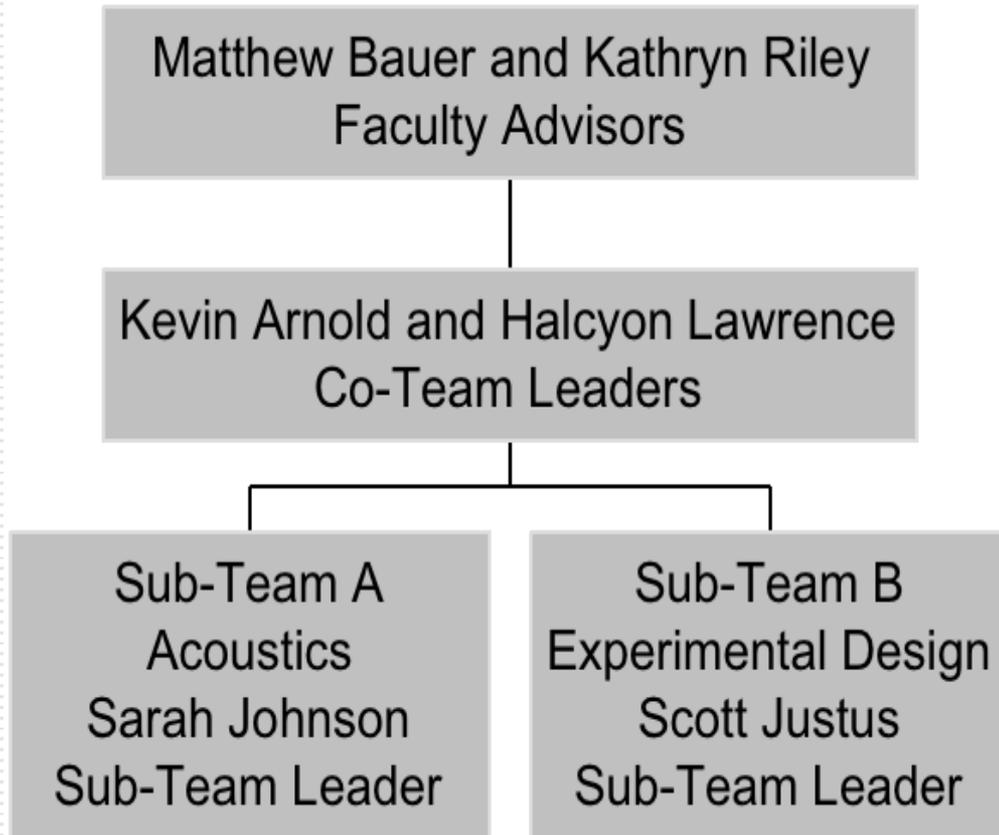
Goals and Objectives of the Project

- The primary objective of IPRO 343 is to identify the communication issues which affect the efficiency and effectiveness of the drive-thru experience at fast food restaurants. The team will also:
 - examine factors relating to acoustics that influence the drive-thru experience, and will look for potential areas in which the drive-thru experience can be improved.
 - develop and conduct experiments related to these factors, to test pre-established hypotheses.
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Goals and Objectives of the Project

- establish a baseline for intercultural issues in quick service restaurant communication by including a subject group of non-native English speakers in the experimental design.
 - make recommendations about possible solutions or further studies which may need to be conducted.
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Team Organization



Team A Members:

Shavanna Pinder,
Halcyon Lawrence,
Russell Ucci, Susan
Mallgrave, **Scott
Justus (leader)**

Team B Members:

Shaun Doran, Kevin
Arnold, Matthew
Campen, Karen
Hong, **Sarah
Johnson (leader)**

Team Responsibilities

Team A

- Babble and Stimulus recordings (Due 10/23)
- White Noise Creation (Due 10/9)
- Equipment Procurement (Ongoing until experiment start, 10/27)

Team B

- Stimulus Script (10/9)
 - Intelligibility test (10/23)
 - Software Interface (10/23)
 - Data compilation process (10/27)
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2x2 Experimental Design

	No Noise	White Noise	
Low Babble	20 Native Listeners	20 Native Listeners	
High Babble	20 Native Listeners	20 Native Listeners	20 Non-Native Listeners

Progress Made

- Researched background information necessary for experiment
 - Designed experiment, submitted ethics report to IRB
 - Developed clear hypotheses and research method
 - Began design of experiment interface
 - Finalized subject recruitment plan
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Obstacles So Far

- ❑ Lack of background information in linguistics amongst team members
 - ❑ Initial project scope too wide—needed to narrow problem
 - ❑ Difficulty for team members to shift from a consumer's perspective to employee's perspective regarding drive-thru environment
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Potential Concerns

- ❑ Software interface learning curve
 - ❑ Recruitment (100 participants needed)
 - ❑ Time constraints
 - ❑ Intelligibility test (must be well-crafted to yield useful data)
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Questions?
