Trends in Resolving Implicatures Through Theory of Mind Between English Monolingual Students and Spanish-English \& Japanese-English Bilingual Students at CSU

Grey Perez
INST 301, Colorado State University
Background

Bilingual education in the United States has a relatively short history, only existing since the mid-19th century. Ohio was the first U.S. state to officially adopt a bilingual education law that allowed German-English teaching with parent permission. The country would then revert to Englishonly instruction by the mid-1920s but would begin again with the Bilingual Education Act of 1968 which provided sufficient federal funding to local school districts where most states enacted bilingual education acts themselves. However, today there remains a lack of any formal federal law that requires states to provide bilingual education. This is the current stage that is set for my research into the rates and trends of bilingualism and its advantages among students at Colorado State University (CSU).

Rethinking Schools, History of Bilingual Education

## Project Topic and Definitions

My topic is examining how learning a second language affects one's ability to comprehend a difficult concept in the field of linguistics. It could be said that the process the mind endures when switching between lexicons and grammar systems has yet to be researched to its full potential. My chosen concept centers around our ability to understand our listener's perspective in order to solve for hidden meanings of a sentence.

## My research will utilize the following linguistic concepts:

L1: is the speaker's first and often strongest language
L2: is the speaker's second language
Implicatures: an utterance, action, or sentence that conceals a hidden or implied meaning.
Theory of Mind (ToM): the ability to understand that other speakers have separate perspectives than oneself.

Byrd, Cognitive Benefits of Being Bilingual, 22
Yule, Pragmatics, 35


The main objective of this research was to establish a baseline comparison of the rates and trends of monolingual vs. bilingual college students in terms of using Theory of Mind to resolve implicatures. All subjects at the time of participation were currently enrolled at Colorado State University and had varying levels of foreign language knowledge This was NOT meant to be a linguistically conclusive research project, but it has the potential to be the backbone of a more extensive study in the future. That being said, this research was conducted with the utmost sincerity and passion, and I was genuinely interested in the results.


Five in-depth interviews were conducted to identify which topics surrounding implicatures needed to be further studied. This information was then used to develop highly vetted and specific questions for three separate surveys: One for English monolingual subjects, one for Spanish-English bilingual subjects, and one for Japanese-English bilingua subjects.

The following are individual links to the three interview templates:
English Monolingual Subject Interview Template
Englis
o
https://docs.google.com/document/d/1MfLoDNJuUluAONvsqnwc5ZI8UkOJH5d/edit?usp=sharing\&ouid $=10772225027$ 4363014507\&rtpof=true\&sd=true

Spanish-English Bilingual Subject Interview Template:
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https://docs.google.com/document/d/1JutYRivNwXLdz5TtV 5xdTtHSG-Yr3T3y/edit?usp=sharing\&ouid=107722250274363014507\&rtpo $\mathrm{f}=$ true\&sd=true

Japanese-English Bilingual Subject Interview Template
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https://docs.google.com/document/d/1NCjkyVeZArJ6Ni3LW vBQ3ilzORc15107/edit?usp=sharing\&ouid=107722250274363014507\&rtpof=t rue\&sd=true

The following are individual links to the three surveys conducted:
Link to English Monolingualism Survey

- https://forms.gle/vs5VxrxADrpDEZX66

Link to Spanish-English Bilingualism Survey
https://forms.gle/668YUhB5GH1mC3gZ6
Link to Japanese-English Bilingualism Survey

