**THE Efficacy of Different Communication Modalities in Translation**

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**Motivation**

- Travel in a country where you don’t know the local language?
- Hard to hire a full time translator?
- Machine translation app not good?

**Our Solution**

- A platform to connect multi-language speakers and international travelers
- Crowdsourcing (“Uber” Translator)
- Smart algorithm for matching translator in the short time

**Hypothesis**

- Null Hypothesis: Different methods provide the same user experience
- Alternative Hypothesis: Our platform provides shorter waiting time, and better accuracy.

**Research Question**

Compare our multi-media translation platform with other translation methods such as machine translation and call a translator (voice or video).

**Experiment Design**

- Recruited 7 English-Chinese bilinguists as the translator side;
- Recruited 20 non-Chinese speakers as international travelers;
- For each test, give the non-Chinese speaker a task such as “find out non-spicy food in the menu” Assign him one out of the four translation methods randomly.
- Record the accuracy of the response.
- Ask the non-Chinese speaker to fill out a questionnaire.

**Result**

- Using Babylonian saves time: both the waiting time and communication time is shorter
- No significant difference in functionality was found.