Research Overview

Thamar Solorio

Associate Professor

Research Interests

Research Area: Natural Language Processing (NLP)

Gist: automated processing of human language to solve meaningful problems

Analysis of Mixed Language

@Pale_31 idk, ni savia que avia game. I might go alas movie con miri and chicken, not sure. Tu bas ir?

@Pale_31 lmao we shall see 😆 ya duermete !

Expand   ↩ Reply   ⇄ Retweet   ★ Favorite   ••• More

Most NLP technology assumes input in one language only.

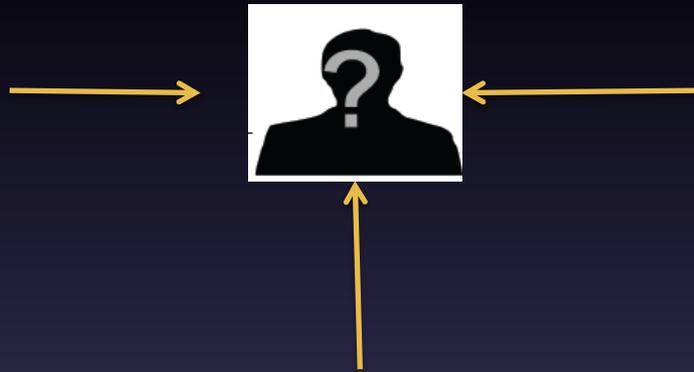# First Workshop on Computational Approaches to Code Switching

Tweet Level

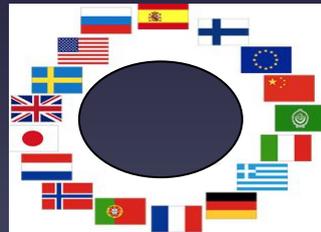| nepali-en | spanish-en | mandarin-en | arabic dialects | arabic dialects 2 |

Codeswitched tweets : 471 | Monolingual tweets : 1155 | Total tweets : 1626

Team	Accuracy	Recall	Precision	F1-Score
CMU	0.859	0.682	0.803	0.737
TAU	0.868	0.720	0.803	0.759
A3-107	0.835	0.773	0.692	0.730
IUCL*	0.839	0.513	0.879	0.648
IUCL	0.838	0.514	0.877	0.648
JustAnEagerStudent	0.699	0.883	0.489	0.630
MSR-India	0.821	0.766	0.666	0.713
DCU-UVT	0.804	0.845	0.618	0.714
Baseline (LangID)	0.735	0.340	0.571	0.426
Baseline (Lexical)	0.707	0.826	0.496	0.620

Author Profiling

Language Assessment


```
$ Child, Examiner
+ SubjectId: H0096062
+ DOE: 4/3/07
+ CA: 6;4
+ Grade: K
+ Gender: M
+ Context: Nar
+ Language: English
+ Examiner: Dr. Perez
+ Transcriber: DR
- 0:00
+ [beginfrogretell]
+ H0960623A
- 00:00:31
C The kid is|be walk/ing[mv] with animal/s [G].
E Mhm.
C The frog jump/*3s[mv] out [U].
E Mhm.
C (Mm) the frog say/*3s[mv] (bye) bye [U].
E Ok.
C The frog (um) see/*3s[mv] a flower [U].
E Mhm.
C The frog got|get[ip][mv] a bee [g].
```

FROG, WHERE ARE YOU? by Mercer Mayer

NLP & Patient Generated Data

- Goal: Extract information relevant to the functional status of patients.

RA positions available, for more information drop by or email:

solorio@cs.uh.edu