Motion in speech and gesture in a CLIL context

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1. Introduction

1.1. Background

- Motion events
 - \circ Components: Figure Ground Path Manner
 - Types: Self-propelled motion events (SPME) Caused motion events Caused location events Location events
- The linguistic expression of motion events
 - Verb-framed languages (e.g., French) vs. Satellite-framed languages (e.g., Dutch)
- Co-speech gesture
 - Part of the communication process
 - Universal and language-specific characteristics
- →The typological differences between V-languages and S-languages are reflected in co-speech gesture

(McNeill 1985, 2005; Kendon 1980, 1994, Alibali et al. 2000; Gullberg 2010; Graham & Argyle 1975, Rogers 1978 & Riseborough 1981 mentioned in Kendon 1994; Cassel et al. 1999; McNeill & Duncan 2000; Talmy 2000; Kita & Özyürek 2003; Brown & Chen 2013)

- Thinking for Speaking: while acquiring their first language, children learn a specific way of thinking for speaking (Slobin 1991)
- Motion events Co-speech gesture Thinking for speaking
 - Different patterns of thinking for speaking in L1 and L2 = necessity to learn the L2 pattern to master the language (Stam 1998, mentioned in Stam 2010)
 - Learning/Acquisition of the L2 multimodal pattern

1.2. Research question

• How do native French speakers and native Dutch speakers and CLIL French-speaking learners of express motion events in both speech and gesture?

2. <u>Method</u>

2.1. Participants

- 11 native French speakers
- 9 native Dutch speakers
- 12 CLIL French-speaking learners of Dutch (Proficiency level: ranging between CEFR A1 and B2)

2.2.<u>Task</u>

• *Tweet Zoo* divided into 15 fragments

2.3. Analysis

Speech		Co-speech gestures	
Verb	Neutral/Manner/Path/ Manner and path/ Manner and path (prefix)	Туре	Iconic/ Deictic/Metaphoric/
Satellite	Manner/Path/Location/ Combination		Pragmatic/Beat
Construction	e.g. MANNERV + PATHS	Semantic components	
Boundary crossing	Yes/No	in deictic and iconic gestures	/Location/Combination

(Levy & McNeill mentioned in McNeill 2006; Kendon 2004; Woerfel 2019)

• Synchronization between substantive gestures and linguistic units (Stam 2006)

- Multimodal Construction: semantic components in linguistic units and substantive gestures
- 3. Main results, Discussion & Conclusion

3.1. Types of events

- FR: SPME > Caused motion > Location > Action
- DU2: SPME > Action > Caused motion > Location
- DU: SPME > Caused motion > Action > Location

3.2. Constructions - SPME

- The most frequent construction used by L2 learners = same as in their L1: $PATH_v+PATH_s$ vs. $MANNER_v+PATH_s$ in Dutch L1
- MANNERPATHV(PREFIX): difficult for learners but they still use MANNERV

3.3. Types of gesture

- FR: Iconic > Deictic > Pragmatic > Beat
- DU2: Iconic > Pragmatic > Deictic > Beat
- DU: Iconic > Deictic > Pragmatic > Beat
- More **pragmatic** gestures in L2 than in L1 (// Piot (2019))

3.4. Semantic components - SPME

- PATHG
 - Most frequent semantic component in both French and Dutch (// Alferink (2015)), a bit more frequent in French.
 - Most frequent semantic component in DU2 as well even though it is less prevailing.
- MANNER_G: more frequent in DU2: sometimes compensation gesture.
- Conflated gesture (MANNERPATH_G): not very frequent here and similar in the three groups.

3.5. Multimodal Constructions - SPME

- Most frequent multimodal construction in French and Dutch L2: same one (PATH_v+PATH_s+PATH_G) vs. in Dutch L1 (MANNERPATH_v(PREFIX)+PATH_s+PATH_c)
- MANNER $_{V}$ + PATH + PATH in French, Dutch and Dutch L2
- Synchronization **PATH**_G
 - Verb: Dutch L1 > French L1 > Dutch L2
- 4. Further research
- More data
- Boundary crossing gesture
- Conflated gesture vs. 2 gestures
- L2 leaners' evolution

For more details, examples, and references, you can download the poster presentation here:

