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## Nonmanuals and markers of (dis)fluency in French Belgian Sign Language (LSFB)

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### Nonmanuals and markers of (dis)fluency in French Belgian Sign Language (LSFB)

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#### **INTRODUCTION**

Collaborative project about markers of (dis)fluency in spoken English (L1-L2), French (L1) and LSFB (L1) [University of Louvain-UCL & University of Namur-UN] (*non-pathological*, Götz 2013)

In this *pilot study*: *Pauses* (113), *Palm-ups* (80) and co-occurring Nonmanuals under investigation

#### CORPUS

Unprepared monologues selected from larger dialogues

		Sex	Age	SL profile	Clip duration	
	Signer 1	М	33	Native	3min	_
	Signer 2	F	22	Native	2min	_
	Signer 3	М	25	Near-native	2min30	_
_	Signer 4	F	28	Near-native	2min30	_

#### **CODING Ms**

Palm-up (PU)	Upward palm orientation sign in the neutral space resulting from a wrist rotation				
Pause	Stop in the hands flow				
<b>S1</b>	Stop during a sign				
S1:start	Stop at the beginning of a sign				
S1:end	Stop at the end of a sign				
S2	Stop between signs				
S2:crossed	Stop with hands crossed				
S2:body	Stop with hands along the body				
S2:neutral	Stop with relaxed hands in the neutral space				

PU-mod





S1:start-str FILLED

PU (lexical/filler) WELL

#### RESULTS

Modality (mod)	Comment or evaluation from the point of view of the role-played character or the signer himself/herself			
	on what is being said			
Suspension (sus)	Blank in the communication			
Phatic (pha)	The signer makes sure he is well understood			
Stress (str)	The signer emphasizes a point of his discourse			
Boundary (BoS, BoM, BoE)	Start, middle or end position of a turn			

#### FURTHER ISSUES

• Floating vs. Addressed gaze = a (dis)fluent marker in itself?

• Compare with other potential manual (dis)fluency markers: false start, self-repair,

repetition, flying indexe, gesture/motion filler, spatial discourse organisation, connecting sign (list buoy, ALSO, AND, SAME, rhetorical question)

Using a descriptive template for Nms or a tagset based on the marker functions?

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- What type of information do Nonmanuals (Nms) convey about the selected manual markers (Ms), i.e. pauses and palm-up signs?
- > Is the (time consuming) **annotation** of each non-manual component needed for each pause and each palm-up sign?

#### METHODOLOGY

QUESTIONS

Step 1: Coding data in ELAN

Step 2: Extracting overlaps between Ms and Nms

Step 3: Querying data in Excel

- Identifying regular combinations of Nms
  - Distinguishing consistent Ms categories

#### **CODING Nms**

Movement or position of Eyebrows (B:), Head (H:) and Mouth (M:) in the *strict interval* of PU/S1/S2

Movement of Eyes (E:) and direction of Gaze (G:) one sign before and after PU/S1/S2

	Gaze Tags (Meurant 2008)
Addressed	towards a real or a fictive interlocutor
Spatial out of a role	towards the frontal space without the actualization of a role-play
Spatial within a role	towards positions in the frontal space in relation to the actualization of a role-play
Floating	towards the floor, the side or in the air (not addressed nor related to meaningful positions in space)

S2:crossed-BoM





S2:body-BoE

S2:neutral-sus

2. Nms needed for annotation (cues defining categories)

Gaze and Head are sufficient to distinguish these functions of PU/ S1/S2. Sometimes another Nm is present but not systematically.

Manual markers	Head	Gaze	Other Nms
PU-mod S1:end-mod S2:neutral-mod		Spatial within a role	
S1:start/end-sus S2:neutral-sus	Fixed	Addressed or Floating	
S2:body/crossed-pha S2:neutral-pha S1:end-pha	Nod	Addressed	
S1:end-str	Movement (not Nod)	Addressed or Spatial out of a role	
S1:start-str	Chin up	Addressed or Spatial out of a role	E:wide B:raised M:closed
S2:crossed/body-BoM	Turn or /	Floating	
S2:crossed/body-BoE	Nod or /	Addressed	

with anothe manual marker

Left: ALSO + G:a Right: ALSO + G:f

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Same nonmanuals

