

HOLLER ET AL 2018

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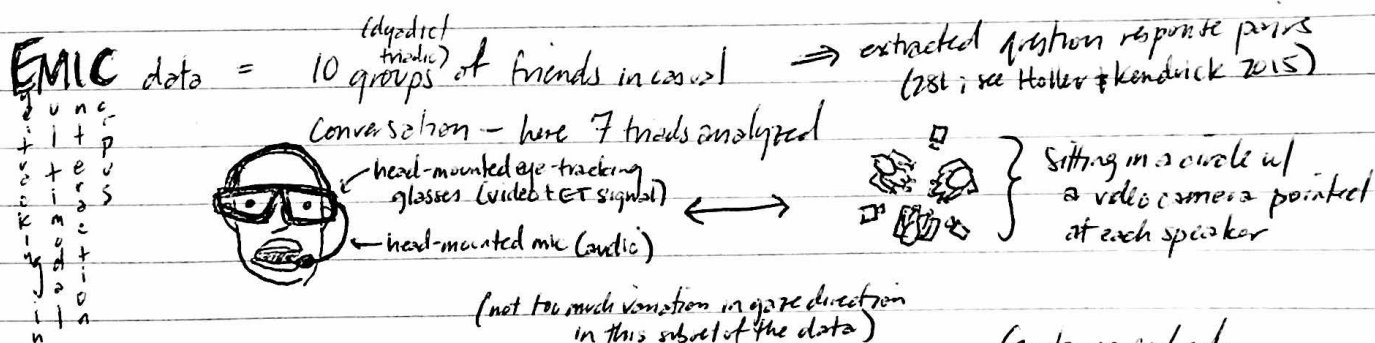
# ? DO GESTURES INFLUENCE TURN TIMING?

- Language is fundamentally multimodal
- Manual modality carries up to 70% of speaker meaning in some contexts
- Gestural information is integrated w/ linguistic information
  - ↳ may facilitate linguistic processing
- Duncan (72), Mondada (06), Schegloff (84) & others noted influence of gestures on real-time floor allocation

## ~ PREDICTIONS ~

- ① A substantial number of turns have a gestural component
- ② The use of gesture should have a direct (facilitating) effect on turn timing
- ③ Gesture timing can enable earlier response planning - faster responses

## METHOD



## RESULTS

### PREVALENCE of GESTURES

Qs	61%	30%	46%
As	67%	16%	60%
	1+ gesture	1+ manual gesture	1+ head gesture

→ Gestures are highly prevalent in both Qs & As, most of which are interactive/pragmatic (see Table 2)

### GESTURE RETRACTION & SPEED of RESPONSE

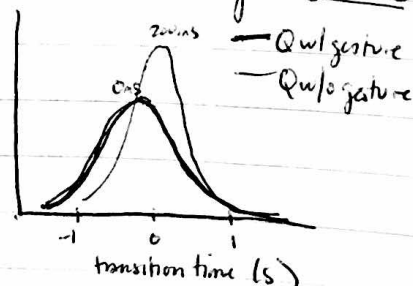
• 41% of Qs had a retraction, 61% of which started before Q-end

→ Responses are faster after Qs in which gesture retraction came before Q end (BUT SMALL SAMPLE)  
(also retraction correlated w/ pitch peak in timing)

Gestures coded:

- Iconic & metaphoric
- Deictic
- Pragmatic/Interactive

### Q GESTURES & SPEED of RESPONSE



Responses are faster after questions w/ gestures (head & hand, polar), even in utterances w/ only one movement (+ maximum intensity)

## ~DISCUSSION~

- Gestures
- are prevalent
  - sped up responses by ~200 ms
    - ↳ they note the similar relationship w/ intensity peak may derive from intercostal muscle movement while gesturing
  - (gaze) may be affected by # of participants in its use by questioners

Underlying mechanisms for this pattern of findings are unclear!!

- processing advantage
  - timing relative to speech
  - drawing the recipient's attention
- } more work, & experimental work needed