

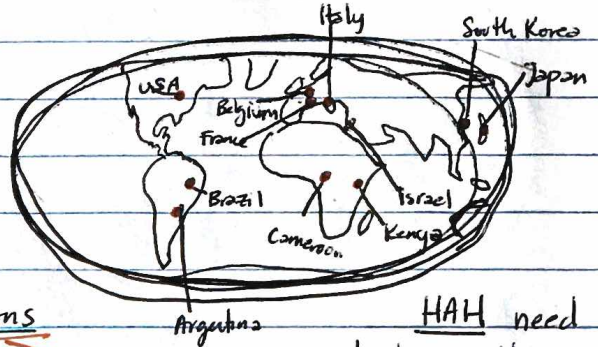
BORNSTEIN ET AL. 2015

13 APR 2020

How universal is contingent MOT \rightarrow INF / INF \rightarrow MOT vocalization?

684 MOT-INF PAIRS AT INFANT AGE 5 $\frac{1}{2}$ MONTHS
IN 11 COUNTRIES:

TURN TAKING AS A "shared architecture for language use" (p. 1273) — citing S5J74, Stivers ET AL 09, etc



HAH need to draw world more often...

- MEASURES:
- A - Rate of MOT child-directed vocalizations
 - B - Rate of INF non-distress vocalizations
 - C - Contingent response rate of MOT on INF vocalizations
 - D - " " INF on MOT "

SPEECH?

DATA: 1-hr at-home video by a visitor native to each population
 \rightarrow infant awake, after period of habituation to the visitor/camera
 Segmented MOT C-D Vocs & INF non-D Vocs

Rate = Vocs/hour Vocal Responsiveness = odds of voc w/i 2 sec of prev spkr turn offset
 \rightarrow vs. other times

RESULTS:

VOCALIZATION RATE

Cameroon 80.5 — 376.07 MOT INF S. Korea 75.36 — 196.27

* VARIABLE ACROSS POPULATIONS *

* OVERALL MOT/INF VOC RATES ARE NOT CORRELATED (-.15 - .28) \rightarrow S. America has the 2 exceptions

VOCALIZATION

CONTINGENCIES

"vocal responsiveness" (see above)

POST-UTT	1/1	1/1
2s WINDOW	1/1	1/1

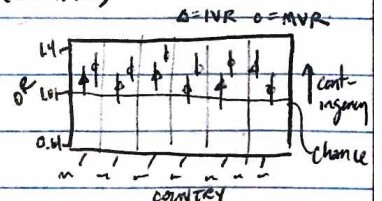
Tallied as 10ms of a second

* MVR & IVR generally show contingency *
 all populations but those w/ small Ns (Cameroon, Kenya)
 in ~1/2 of populations

* MVR & IVR correlate in 10/11 pops *
 \rightarrow except Kenya (small N)

"Odds Ratios > 1 indicated that bouts of the target behavior were more likely to begin w/i 2s of the offset (.1 than at other times" (p. 1277)

* MOT more responsive than INF *
 \rightarrow exp. Belgium, Italy, USA



Begin??
 1/2 table is described
 5 100ms increments of vocalization

MIN VOC DUR = 300 ms ROUNDING = 100 ms

NOTE

= TAKEAWAYS =

- Vocalization rate itself doesn't seem to correlate w/ MOT-INF pairs
- Contingent responses from MOT in all studied pops
- " INF in MOST/HALF studied pops
- Rate of MOT's cont vocs varied, but INF's didn't
- VR is correlated between MOT & INF in 10/11 populations

MOTs more responsive than INFs

} what is the actual rate?

was recorded, if not aware of it, usually so-lx
"mothers in many communities may conceive of their infants as competent language partners and may treat their babies' nondistress vocalizations as incipient speech" (p. 1280)

↳ Responsiveness of mother's speech as universal → consolidation/promotion of social development

↳ Evidence for Interaction Engine Hypothesis

↳ They ask: how is this possible in the light of adult turn-taking behaviors using sophisticated linguistic processing?

Influential role of caregiver on apparent infant timing?

Nonverbal cues?

Routine?