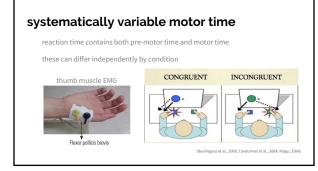
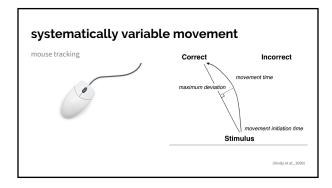
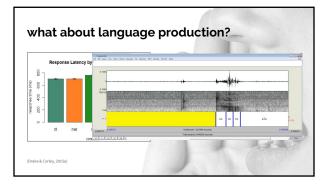


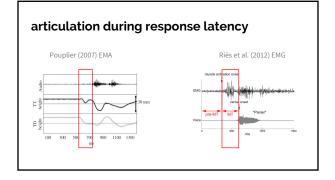
some psycholinguistic assumptions

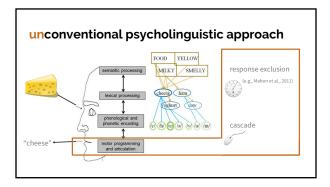
interested in how the mind/brain processes language only observables are behaviour and its consequences (detection of) button press is a *consequence* of behaviour **patty** stimulus response cognition time (systematic) reaction time (noise)

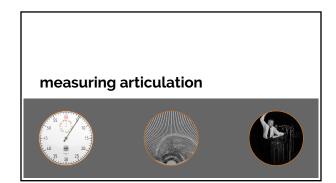


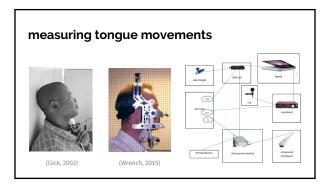


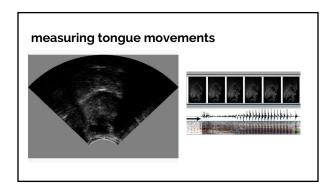


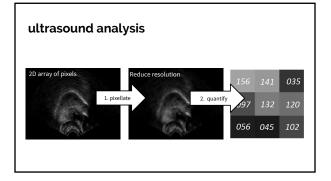


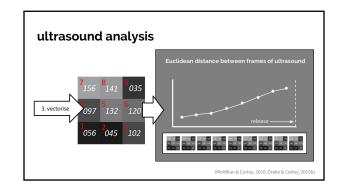


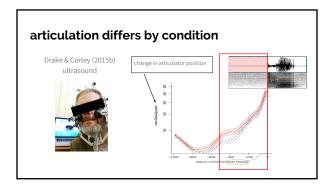


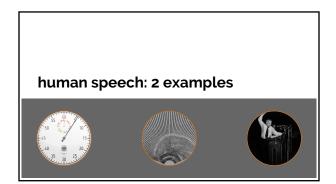


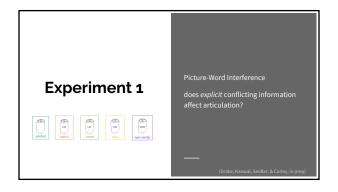


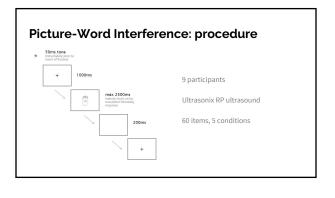


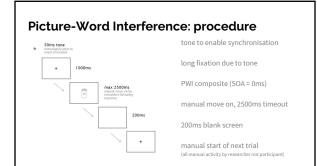


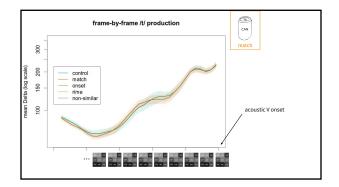


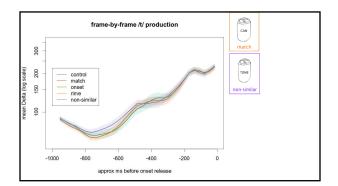


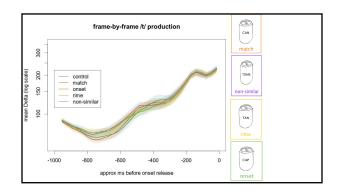


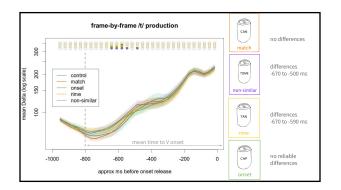


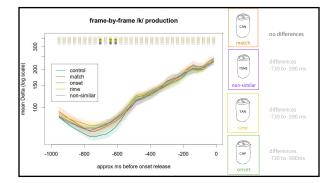


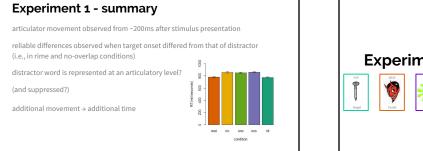


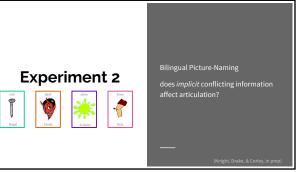






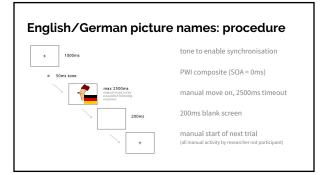


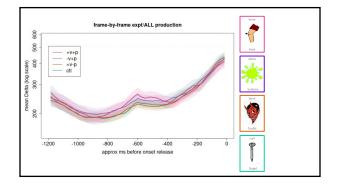


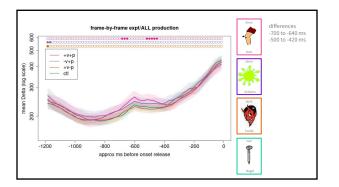


English/German picture namesnalluarticleslime<math>uarticle<math>uarticleslime<math>uarticle<math>uarticleslime<math>uarticle<math>uarticlescheimshared onsetvoice changeplace change

English/German picture names: procedure







Experiment 2 - summary

articulator movement observed from ~400ms after stimulus presentation

reliable differences observed when there was competition from the name in L1/L2 (i.e., when place and voice differed)

competing language is represented at articulation?

(and suppressed?)

additional movement \rightarrow additional time



summary

we must measure articulation to gain a full understanding of speech production

- articulation occurs before acoustics (and we should take note of this)
- speech motor movement occurs within ~200-400ms of stimulus presentation
- articulatory *differences* are observable at an early stage

summary

speaking is a highly interactive, cascading, process

- *explicit* conflict in PWI affects speech articulation
- *implicit* conflict in bilingual naming affects articulation

Thank You

Jasmeen Kanwal, Lene Seidler

Korin Richmon

Alan Wrench, Articulate Instruments

PPLS Pilot Fund, University of Edinburg

EPSRC