

UNIVERSITY OF ALBERTA SEEEE FACULTY OF ARTS **Department of Linguistics**

Introduction

- Speech reduction occurs when sounds or syllables are omitted from words, or are spoken with less clarity (e.g. fiddle becomes fill; Ernestus et al., 2002)
- Word medial stops, such as /g/ and /d/, are commonly reduced in casual speech (Warner & Tucker, 2011)
- Stop sounds involve momentary blockage of a section of the oral cavity (Figure 1), often caused by the lips or tongue blocking air flow, followed by a release, or burst
- Broadly, the purpose of this study is to research how we understand language
 - More specifically, how variability caused by speech reduction impacts how we perceive speech
- Previous studies (Babel, 2012) have shown that to an extent, some vowels are phonetically imitated in lexical shadowing tasks

Research questions

- When a listener hears a reduced word and has to repeat it, do they mimic the reduction?
- When there is a mispronunciation, is there a reasonable explanation for the chosen word that coincides with lexical competition?

Methods

Stimuli

- Naturally produced disyllabic words containing word-medial /d/ and /g/
- 40 /d/ (e.g. ready)
- 40 /g/ (e.g. baggy)

Task

- Listen-and-repeat
 - Auditory stimulus followed by 2,500ms pause
 - A 500ms pure tone beep prompted participant to repeat the stimulus

Participants

38 Western Canadian English speakers

Data

- Duration of word-medial /d/ and /g/
- Response latency and spoken responses recorded via head-mounted microphone

STOP COPYING ME: Imitation of Speech Reduction **Tori Rose and Benjamin V. Tucker**











Figure 4 Speaker consonant duration (s) split by consonant



Figure 5 Speaker intensity difference (dB) split by consonant

Consonant



Figure 7 Participant intensity difference (dB) split by consonant

