

# Style-shifting in Multicultural London English in an all-girls Q2 homework club

Q1 ROSIE OXBURY AND ESTHER DE LEEUW

## 1. Introduction

This study investigated whether and how pre-adolescent girls style-shift in Multicultural London English (MLE), a variety of English that is relatively new and potentially still changing. We looked at the extent to which five 11-year-old girls in a homework club in East London, where MLE is spoken, changed their pronunciations in different speech contexts. The results show that the girls did indeed change their pronunciations in the different contexts (i.e. they style-shifted), and that the patterns of style-shifting varied between both the individual participants and the three vowels which were examined.

### 1.1 What is style-shifting?

Style-shifting is the phenomenon of speakers changing how they speak according to the social context in which they are talking. We all style-shift – ‘there are no single style speakers’ (Labov, 1972b: 112) – to a greater or lesser extent, depending on the speech registers we are competent in using. Labov’s (1972a) foundational work on style explained these shifts as a consequence of attention paid to speech: in more formal contexts, when the speaker is more conscious of how they are speaking, their speech is more standard; whereas in less formal situations, when the speaker is less self-conscious, it is claimed that their speech reverts to its natural state – known as that speaker’s vernacular. More recent work has added greater nuance to our understanding of style-shifting, moving away from the notion of a single informal-formal speech style continuum. It has been shown that speakers’ style-shifting can be motivated by who they are talking to (Rickford & McNair-Knox, 1994); their intended audience (e.g. Bell, 2001); or the persona they wish to project (e.g. Podevska, 2007). Research on multidialectal speakers has further highlighted that speakers show personal agency



ROSIE OXBURY is a PhD student in Linguistics at Queen Mary University of London, where she is a member of the Phonetics and Acquisition Labs. She decided to pursue Linguistics at a postgraduate level after completing her BA in English Language and Literature at

the University of Oxford and then teaching English as a Foreign Language abroad. Her PhD project investigates the use of Multicultural London English by adolescents and children in West London. Her research interests include: variationist sociolinguistics; the sociophonetics of diphthongs; children’s acquisition of sociolinguistic competence; and discourse-pragmatic variation and change.



ESTHER DE LEEUW is Reader in Experimental Linguistics and Phonetics at Queen Mary University of London where she is Director of the Phonetics Lab. Her research concerns the production, processing, representation, and development of speech

sounds in the context of multilingualism and language contact, the cognitive organization of dual phonological systems, and the phonetic and phonological interactions which occur during first language attrition and second language acquisition. Her additional research interests include the sociophonetics of multilinguals and the study of regional and individual variation according to multi-level acoustic and articulatory approaches. She is Associate Editor of the journal *Second Language Research* and has authored or co-authored more than thirty papers in scientific journals and volumes, including the editing of numerous international journal special issues.

111 in commanding a repertoire of speech styles  
112 (Sharma, 2011, 2018; Sharma & Rampton, 2015).

113 Further research has shown that children style-  
114 shift too. For example, Lanza (1992) found that a  
115 bilingual two-year-old adopted a monolingual  
116 mode with one parent, and codeswitched with the  
117 other, in a way that mirrored how each parent  
118 spoke to her. Smith, Durham and Richards  
119 (2013) found that caregivers of children aged two  
120 (ten children) to four (two children) used higher  
121 rates of dialectal features when engaging in less  
122 formal activities such as routine and play, and  
123 lower rates of dialectal features when engaging in  
124 teaching and discipline; the children also used dia-  
125 lectal features to a greater degree when engaging in  
126 less formal activities, and to a lesser degree when  
127 engaging in more formal activities, thus copying  
128 the style-shifting behaviour of their caregivers. It  
129 has also been shown that 11-year-old school boys  
130 in Edinburgh used the vernacular variants of (t)  
131 and (ing) the most when playing with their friends  
132 in the playground, less in a one-to-one interview  
133 with an adult, and less still when reading aloud  
134 (Reid, 1978). Relatedly, Eckert suggests that it is  
135 at around this age – pre-adolescence – that girls  
136 begin engaging in ‘the production of style’  
137 (1996: 3), both linguistically and in other domains,  
138 which is relevant to our own study investigating  
139 pre-adolescent girls.

140 However, all of the above studies have focussed  
141 on stable language varieties and stable sociolin-  
142 guistic variables, such as (ing) (Hazen, 2005).  
143 Less is known about children’s style-shifting  
144 when language change is still in progress, which  
145 is the focus of the current study. Moreover, with  
146 the exception of Lanza (1992), the above studies  
147 looked at children growing up in monolingual,  
148 monodialectal environments.

149 The current study is an important departure from  
150 this trend, in that the children who are the focus of  
151 this research were growing up in a highly diverse,  
152 multilingual environment in London, acquiring a  
153 language variety, MLE, which is thought to still  
154 be undergoing change (Cheshire et al., 2011).  
155 Indeed, London is one of the most linguistically  
156 diverse cities in the UK and perhaps the world.  
157 Around 20% of people report a main language  
158 other than English, compared to 9% nationally  
159 (Census Information Scheme, 2013). In highly  
160 multilingual areas of inner London, such as  
161 Hackney, where the data for this study were col-  
162 lected, the majority of children grow up immersed  
163 in numerous dialects and languages, and in cases  
164 where English is not spoken in the home, English  
165 is acquired from peers upon school entry

(Cheshire et al., 2011). Meanwhile, the Cockney  
speakers who used to inhabit these traditionally  
monolingual working-class areas of inner London  
are currently moving out of the city to rural  
Essex. This means that MLE is replacing  
Cockney as the English vernacular variety of East  
London (Cheshire et al., 2011; Fox, 2015).

Cheshire et al. describe MLE as a ‘repertoire of  
features’ (2011: 154), where there is a considerable  
amount of dialectal variation between speakers;  
and at the same time, these authors suggest that  
MLE has the status of the ‘unmarked Labovian  
“vernacular”’ for some speakers (2011: 153), i.e.  
their default way of speaking. Yet, we cannot  
know what a speaker’s default way of speaking is  
if our data only comes from one speech context,  
such as an interview, which is how the data for  
Cheshire et al. (2011) were collected. The current  
study investigates how this ‘repertoire of features’  
is implemented in style-shifting in a group of pre-  
adolescent girls, with data collected in diverse con-  
texts from the classroom to the playground.

### 1.1 Diphthong changes in MLE

Diphthongs were the linguistic variables chosen  
for the current study because they are supposed  
to be the most salient features of MLE (Kerswill,  
Torgersen & Fox, 2008; Cheshire et al., 2011). A  
diphthong is a vowel that shows a change in  
vowel quality over time between its start and finish.  
For most speakers of English, the vowels in words  
such as FACE, PRICE, CHOICE are diphthongs, whereas  
the vowels in words such as TRAP, START, KIT, DRESS  
do not show a change in vowel quality, and are  
known as monophthongs. The first vocalic element  
in a diphthong (e.g. the [e] in the FACE diphthong)  
is often referred to as the onset, and the second  
vocalic element is often referred to as the offset  
(e.g. the [ɪ] in the FACE diphthong). The differences  
between MLE, Cockney and Received  
Pronunciation (RP) diphthongs are summarized in  
Table 1 – Cockney being the variety of English  
that would, until recently, have been the most com-  
monly spoken in Hackney. In MLE, the diphthongs  
FACE and PRICE have onsets that are more similar to  
the RP ones than to the Cockney ones. The onset  
of the GOAT diphthong is similar to neither the RP  
nor the Cockney diphthong, and is more back.  
This means that MLE shows a GOAT change that is  
different from the rest of the southeast of England,  
which shows fronting of the offset of GOAT, known  
as GOAT-fronting (Kerswill & Williams, 2000).  
Moreover, in MLE, these diphthongs are also  
becoming more monophthongal – i.e. they are actu-  
ally losing their offsets.

**Table 1: Summary of differences between FACE, PRICE and GOAT in MLE, Cockney and RP. (MLE values from Fox (2015); Cockney values from Mott (2012); RP values from Roach (2004).)**

Variety	MLE	Cockney	RP
FACE			
Diphthong			
IPA transcription	[ei, eɪ]	[ʌɪ ~ eɪ ~ æɪ ~ aɪ]	[eɪ]
Onset quality	Close nucleus	Open nucleus	Close nucleus
Monophthongal or diphthongal	Monophthongal	Diphthongal	Diphthongal
PRICE			
Diphthong			
IPA transcription	[æ, aɪ]	[aɪ ~ ɔɪ]	[aɪ]
Onset quality	Front nucleus	Back nucleus	Front nucleus
Monophthongal or diphthongal	Monophthongal	Diphthongal	Diphthongal
GOAT			
Diphthong			
IPA transcription	[o, ɔʊ]	[ʌʊ ~ ɑʊ]	[əʊ]
Onset quality	Back close nucleus	Central and open nucleus	Central nucleus
Monophthongal or diphthongal	Monophthongal	Diphthongal	Diphthongal

## 1.2 Predictions/hypotheses

Cheshire et al. (2011) have claimed that for some young people, MLE is their unmarked vernacular; however, as their study only elicited interview speech, we followed up on this claim by recording our participants in different speech contexts, following a design similar to that of Reid (1978). The children made self-recordings in the playground; they were recorded in an interview with an adult (white, female, SSBE-speaking, the first author of this paper) interviewer, with one of their friends present; and within the interview, each child also read a wordlist. Hereafter, these recording contexts will be described as playground, interview, and wordlist speech.

We predicted that the children's speech would shift towards MLE in the self-recordings, when they were playing with their friends, compared to the interview and wordlist speech (cf. Rickford & McNair-Knox, 1994; Podesva, 2007). In the methodology of variationist sociolinguistics, wordlist speech is also predicted to show more conservative pronunciations compared to interview speech (Labov, 1972). However, we were not sure whether during the interview and wordlist speech, they would produce more RP-like or more Cockney-like diphthongs. As we conducted an acoustic analysis of the vowels, predictions are also given with reference to formant frequencies, i.e. first formant (F1) and second formant (F2).

A more MLE-like pronunciation of each vowel is described as:

### FACE

- The onset is close (low F1)
- The vowel is monophthongal (20% and 80% measurements are similar)

### PRICE

- The onset is front (high F2)
- The vowel is monophthongal (20% and 80% measurements are similar)

### GOAT

- The onset is back (low F2)
- The vowel is monophthongal (20% and 80% measurements are similar)

## 2. Methodology

### 2.1 Field site & participants

The site chosen for fieldwork was a primary school in the London borough of Hackney. The location was chosen for the sake of comparability with the existing literature on MLE (Cheshire et al., 2011). The participants were five 11-year-old girls who were in their final year of primary school (Year 6). Information about the participants' language background and parents' nationalities is summarized in Table 2. Even though Riley's exact language and dialect use at home was undisclosed, it is known that all of the girls were multilingual and / or multidialectal at home.

331 **Table 2: Information on participants**

Pseudonym	Languages/dialects at home	Parents' nationalities
Deborah	Lingala, Kikongo, French, Portuguese	Angolan, Congolese
Tiarna	Jamaican Creole, Jamaican English	Jamaican
Sabrina	English, Yoruba	Jamaican, Nigerian
Alexa	English, Irish English	British, Irish
Riley	(undisclosed)	Nigerian

342  
343 **2.2 Recordings & acoustic analysis**

344 Recordings took place in the school in May–June  
345 2016. These were carried out with the permission  
346 of the school and with the approval of QMUL  
347 Research Ethics Committee.

348 As described above, the children were recorded  
349 (1) in a sociolinguistic interview with a friend present;  
350 (2) reading a wordlist at the end of the interview;  
351 and (3) in the playground. The wordlist was  
352 the same as that used by Cheshire et al. (2011).  
353 For the interviews and wordlist, participants were  
354 recorded on a Marantz solid-state recorder, with  
355 an Audio-Technica lavalier microphone (sample  
356 rate 44,100 Hz, Bit-rate 16). The playground  
357 recordings were carried out using an H2n Zoom  
358 portable recorder, but, otherwise, the recording  
359 procedure was the same. Approximately five minutes  
360 of speech per situation per participant was  
361 extracted for the analysis (see token numbers in  
362 the Appendix). The recordings were transcribed  
363 and then analysed acoustically in Praat (Boersma  
364 & Weenink, 2016), which is a software tool used  
365 for speech analysis. Measurements of F1 and F2  
366 were taken at 20% and 80% duration points in  
367 the vowel token, to represent the onset and offset  
368 (Di Paolo, Yaeger-Dror & Wassink, 2011).

370  
371 **3. Results**

372 **3.1 FACE**

373 It was predicted that the girls would favour a more  
374 close and monophthongal pronunciation of FACE  
375 in playground speech (revealing more MLE-like  
376 speech) compared to interview and wordlist speech.  
377 Actually, the opposite was true: all of the participants  
378 favoured a more open pronunciation of FACE  
379 in playground speech, compared to interview and  
380 wordlist speech. This can be seen in Figure 3,  
381 which shows how for every participant, the onset  
382 of FACE tended to be most open (i.e. have the highest  
383 F1 frequency) in playground speech compared to  
384 wordlist and interview speech. Similarly, FACE WAS

386 not more monophthongal in any one situation compared  
387 to the others. This can be seen in Figure 2:  
388 each participant has some outliers, i.e. extremely  
389 diphthongal tokens, but generally there is little difference  
390 in the pronunciation of FACE between situations,  
391 and it tends to be quite monophthongal across the board.  
392 Therefore, with regard to the F1 values, style-shifting  
393 was indeed observed, although not in the direction we  
394 predicted; and with regard to monophthongization,  
395 there was little style-shifting as this occurred in all  
396 settings.

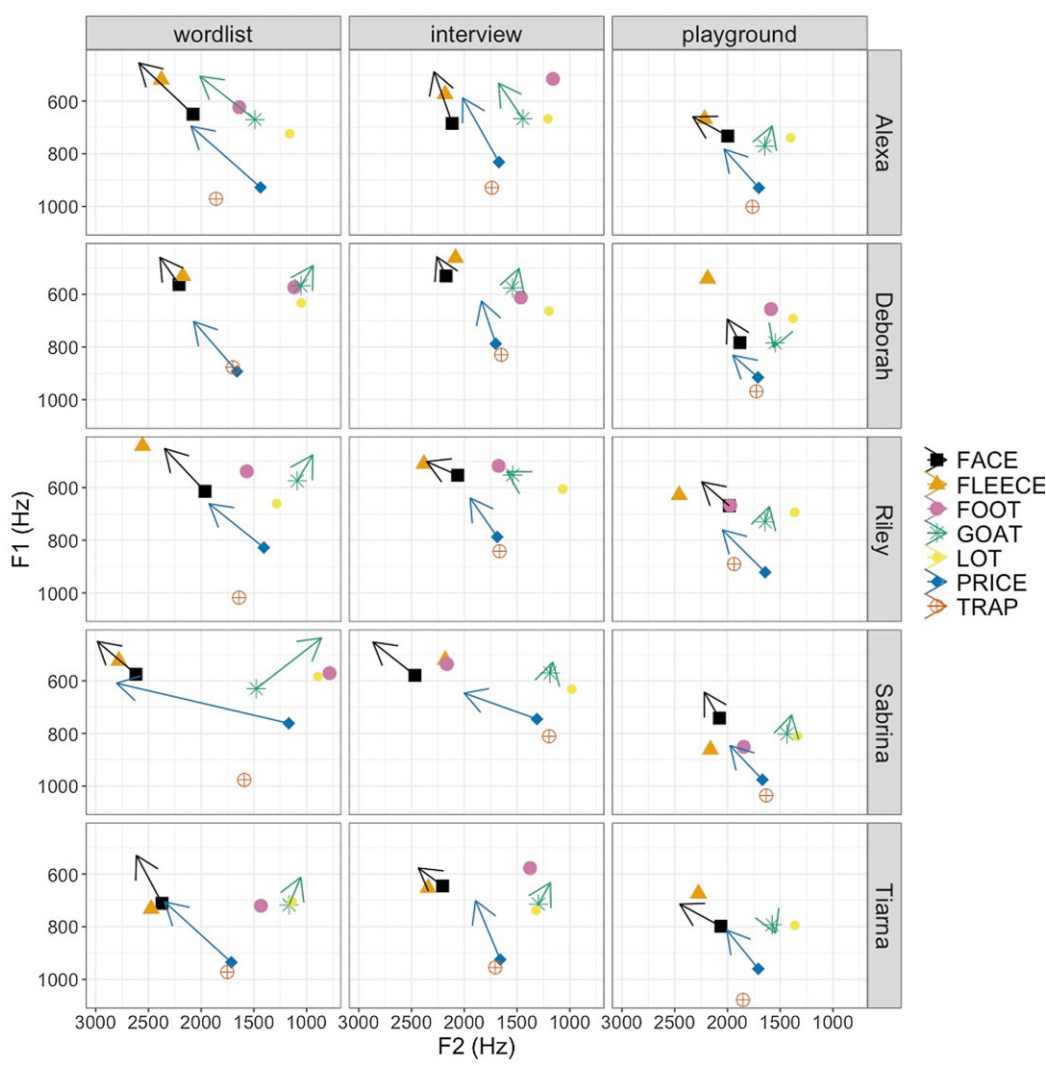
407  
408  
409 **3.2 PRICE**

410 It was predicted that the participants would favour  
411 a more front (i.e. higher F2) and monophthongal  
412 realization of PRICE in playground speech, and a  
413 more back (i.e. lower F2) and diphthongal realization  
414 in wordlist and interview speech. As expected,  
415 Alexa, Sabrina and Riley all showed a back realization  
416 of PRICE in wordlist speech, and Alexa and Sabrina  
417 tended to have a more front realization of PRICE  
418 in playground speech (see Figure 4). However,  
419 Deborah and Tiarna did not show any substantial  
420 differences in the onset of PRICE across situations.  
421 Across the participants, PRICE tended to be most  
422 monophthongal in playground speech, as we had  
423 expected (Figure 2). This is exemplified to the  
424 greatest degree by Sabrina, but also to a lesser  
425 extent by Alexa, Tiarna and Riley. This means  
426 that, while some participants showed style-shifting  
427 as expected with respect to the onset of PRICE,  
428 this was not consistent across participants.

432  
433 **3.3 GOAT**

434 For GOAT, we predicted that the onset would be back  
435 (lower F2) and monophthongal in playground  
436 speech, i.e. more MLE-like, compared to interview  
437 and wordlist speech. However, contrary to our  
438 predictions, three of the participants (Deborah,  
439 Tiarna and Riley) favoured a back realization of  
440 GOAT in wordlist speech, compared to the other two situations

441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495



496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550

Fig. 1 - Colour online, BW in print

Figure 1. Vowel plots showing median F1 and F2 for each participant (rows) and situation (columns). Points represent the 20% time point of the diphthong, or the midpoint of monophthongs; the 80% time point of diphthongs is shown as an arrow

(Figure 5). Alexa and Sabrina did not show this trend. Furthermore, Alexa and Sabrina showed a more diphthongal realization of GOAT in wordlist speech compared to the other two situations, as we had predicted; but Deborah, Tiarna and Riley did not vary how monophthongal/diphthongal their GOAT pronunciation was between situations. This means that Deborah, Tiarna and Riley tended to favour a back monophthongal pronunciation of GOAT in wordlist speech, and a central-front monophthongal realization of GOAT in interview and playground speech. Therefore, all participants showed style-shifting in their pronunciations of GOAT, but in different ways.

#### 4. Discussion

For all three variables, style-shifting occurred, confirming that the pre-adolescent girls we investigated did indeed alter their diphthong pronunciations between situations. However, while the style-shifting for PRICE happened largely in the way we had predicted, for FACE, style-shifting occurred in the opposite direction to what had been predicted, and, for GOAT, different speakers style-shifted in different ways.

For FACE, while it was predicted that the girls would favour the MLE variant in playground

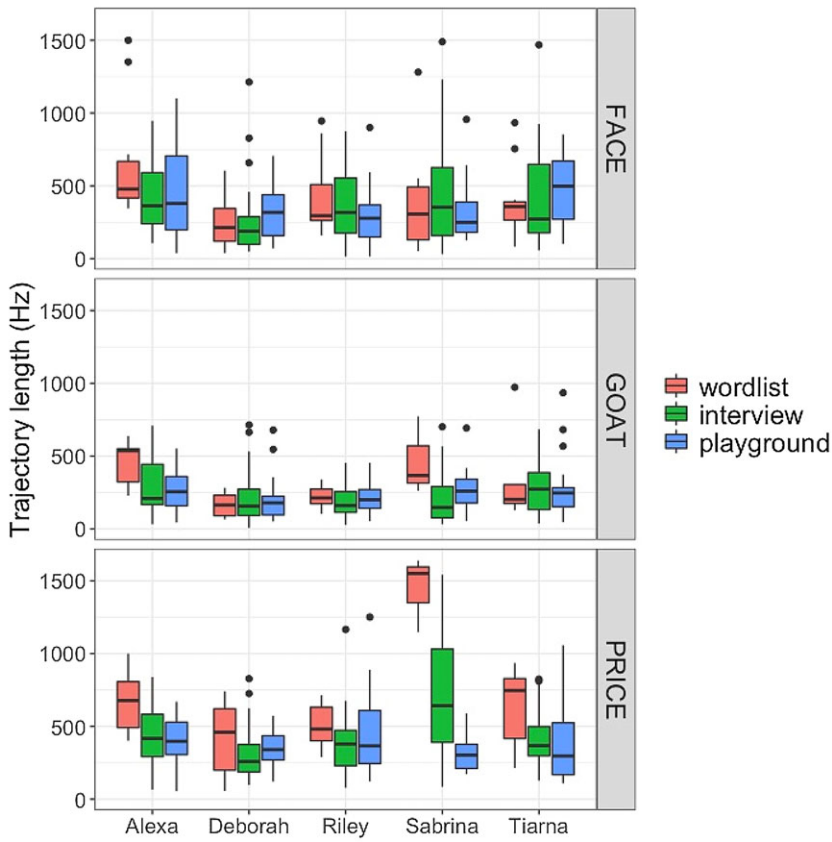


Fig. 2 - Colour online, B/W in print

Figure 2. Variation in how diphthongal or monophthongal the girls' productions were. Higher values = more diphthongal; lower values = more monophthongal

speech, compared to wordlist and interview speech, the opposite was the case. Why should this be so? One explanation is that these girls favoured a more open FACE onset in their speech among friends, suggesting that there is a new, incoming variant – something like [ɛ(t)]. Alternatively, it may have been the nature of the

acoustic analysis that produced these results: when speakers raise their voices, as these girls often did in a loud playground setting, this can affect the F1 measurement such that the whole vowel space appears more open (Huber et al., 1999). Looking at Figure 1, this would seem to be a more likely explanation: for each girl, in her

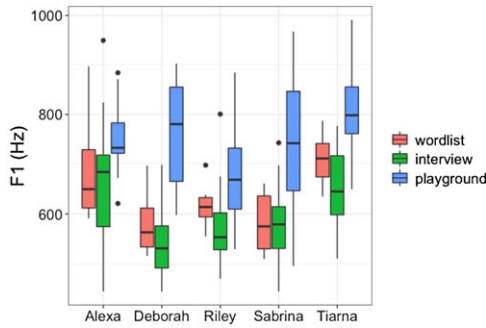


Fig. 3 - Colour online, B/W in print

Figure 3. FACE F1 variation

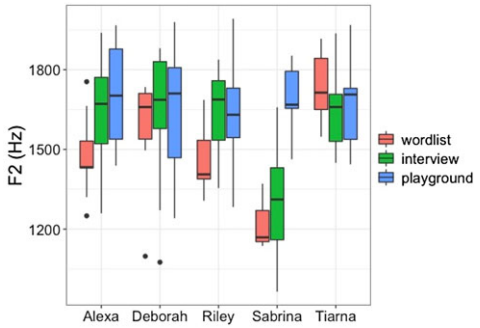


Fig. 4 - Colour online, B/W in print

Figure 4. PRICE F2 variation

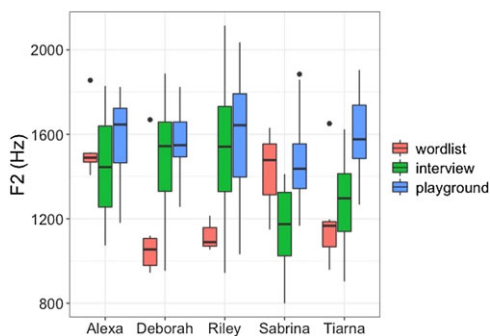


Figure 5. GOAT F2 variation

playground speech it is not just the FACE vowel that appears more open, but PRICE and GOAT too. Nonetheless, for all participants, FACE appeared relatively monophthongal regardless of situation (Figure 2). This could indicate that the MLE-related change of monophthongization has come to completion and is no longer sensitive to style-shifting. It could also substantiate Cheshire et al.'s claim that MLE is the 'unmarked Labovian "vernacular"' (2011: 153), as the MLE monophthongal variant was found in all elicitation contexts.

For PRICE, style-shifting was found, but manifested in slightly different ways between participants. Some girls changed their PRICE vowel between situations in the manner expected, either having a more front onset in playground speech, or a relatively backed onset in wordlist speech (Figure 4). However, other girls did not alter the onset of their PRICE vowel between situations, but had a relatively front PRICE vowel across the board. At the same time, as we predicted, all participants showed a more diphthongal pronunciation of PRICE in wordlist speech, and all but Deborah tended to have the most monophthongal pronunciation of PRICE in playground speech (Figure 2). This means that, on the whole, the girls were shifting their pronunciation of PRICE towards the MLE variant in playground speech, as predicted, while Deborah used the MLE variant regardless of situation. This is interesting because Deborah was also assessed by the first author to have had a more confident personality in comparison to her peers. If adopting MLE diphthongs is a way for these girls to sound more like teenagers and less like children, it could be that Deborah was a 'stylistic icon' (Eckert, 1996); she used the most innovative pronunciations, even when addressing adults, while her peers varied between more conservative and more innovative pronunciations.

The results for GOAT were unexpected, showing that several participants favoured an MLE-like – i.e. backed and monophthongal – pronunciation of GOAT in wordlist speech, and a fronted (but still monophthongal) GOAT vowel in interview and playground speech. The difference was clearly audible, with participants using a backed [o:] variant in wordlist speech, and a central or fronted monophthongal variant in spontaneous speech – something like [ø:] (cf. Haddican et al., 2013). This is not the first study to find that speakers use the non-standard variant more in wordlist speech than in spontaneous speech. Gafter (2016), finding that Misrahi Israeli speakers increased their use of the stigmatized variant [ʔ] in wordlist speech, suggested that, for some speakers, the wordlist can be a site for identity performance within the context of the sociolinguistic interview. At the same time, we know that in varieties of English where fronting of GOOSE is taking place, fronting of GOAT is also likely to occur (Labov, 1994). It may be that GOAT-fronting is actually an even newer change in this community than GOAT-backing, and that the girls are favouring an innovative, fronted variant in playground speech. Regardless of which explanation we choose, the results indicate that the girls command a repertoire of GOAT variants, and that sociophonetic variation in GOAT is deployed according to speech context.

To summarize, our results showed that these 11-year-old girls implemented MLE phonetic features in style-shifting, such that they drew from a repertoire of variants dependent on the situation they found themselves in. Moreover, style-shifting affected the various vowels differently – this is perhaps to be expected in a situation where not only does each speaker have a different multilingual background, but where the language variety itself – MLE – has been described as a variable repertoire of features, and is likely still undergoing change. For FACE, we found that pronunciations were most MLE-like in word-list and interview speech, perhaps suggesting that MLE had indeed become the default choice for these girls, even in relatively formal situations; for PRICE, MLE-like productions were most frequent in playground speech, meaning that this variable shows situational style-shifting as expected; while GOAT potentially shows multiple competing variants.

Our findings point to the value of (a) analyzing speech data from different situations (Rickford, 2014), (b) investigating pre-adolescent style-shifting, and (c) investigating style-shifting in a situation of language change. In one respect, our analysis only reveals the tip of the iceberg: this is not just because we only present three speech

- 771 contexts – when in daily lives, these girls are also  
772 talking with teachers, parents, church pastors etc.  
773 – but for reasons of brevity we presented only  
774 their average vowel measurements from each  
775 speech situation in this manuscript, when, in all  
776 likelihood, these girls would have shown phonetic  
777 style-shifting within their interactions, as well as  
778 style-shifting between situations (cf. Eckert,  
779 1996; Sharma & Rampton, 2015; Sharma, 2018).  
780 Nevertheless, our data show that the preadolescent  
781 girls we examined appear to style-shift in a rela-  
782 tively new and variety of English that is most likely  
783 still undergoing change.
- 784
- 785
- 786 **References**
- 787 Bell, A. 2001. 'Back in style.' In P. Eckert & J. R. Rickford  
788 (eds.), *Style and Sociolinguistic Variation*. Cambridge,  
789 UK: Cambridge University Press, pp. 139–169.
- 790 Boersma, P. & Weenink, D. 2016. *Praat: Doing Phonetics*  
791 *by Computer (Version 6.0.19)*. Retrieved from <http://www.praat.org/>.
- 792 Census Information Scheme. 2013. 2011 *Census Snapshot:*  
793 *Main Language*. (No. CIS2013-01).
- 794 Cheshire, J., Kerswill, P., Fox, S. & Torgersen, E. 2011.  
795 'Contact, the feature pool and the speech community: The  
796 emergence of Multicultural London English.' *Journal of*  
797 *Sociolinguistics*, (2), 151–196.
- 798 Di Paolo, M., Yaeger-Dror, M. & Wassink, A. B. 2011.  
799 'Analyzing vowels.' In M. Di Paolo & M. Yaeger-Dror (eds.),  
800 *Sociophonetics: A Student's Guide*. London; New York, N.Y.;  
801 Routledge, Taylor & Francis Group, pp. 87–106.
- 802 Eckert, P. 1996. 'Vowels and nail polish: The emergence of  
803 linguistic style in the preadolescent heterosexual  
804 marketplace.' In N. Warner, J. Ahlers, L. Bilmes,  
805 M. Oliver, S. Wertheim & M. Chen (eds.), *Gender and*  
806 *Belief Systems*. Berkeley: Berkeley Women and Language  
807 Group, University of California, pp. 183–190.
- 808 Fox, S. 2015. *The New Cockney: New Ethnicities and*  
809 *Adolescent Speech in the Traditional East End of London*.  
810 NY: Palgrave Macmillan.
- 811 Gafter, R. J. 2016. 'What's a stigmatized variant doing in  
812 the word list? Authenticity in reading styles and  
813 Hebrew pharyngeals.' *Journal of Sociolinguistics*, 20  
814 (1), 31–58.
- 815 Hazen, K. 2005. 'The IN/ING variable.' In K. Brown (ed.),  
816 *Encyclopedia of Language and Linguistics* (2<sup>nd</sup> edn.)  
817 Vol. 5. St. Louis: Elsevier, pp. 581–584.
- 818 Haddican, B., Foulkes, P., Hughes, V. & Richards, H. 2013.  
819 'Interaction of social and linguistic constraints on two  
820 vowel changes in Northern England.' *Language Variation*  
821 *and Change*, 25(3), 371–403.
- 822 Huber, J. E., Stathopoulos, E. T., Curione, G. M., Ash, T. A.  
823 & Johnson, K. 1999. 'Formants of Children, Women, and  
824 Men: The Effects of Vocal Intensity Variation.' *The*  
825 *Journal of the Acoustical Society of America*, 106(3 Pt 1),  
826 1532–1542.
- 827 Kerswill, P., Torgersen, E. N. & Fox, S. 2008. 'Reversing  
828 "drift": Innovation and diffusion in the London diphthong  
829 system.' *Language Variation and Change*, 20(3), 451–491.
- 830 Kerswill, P. & Williams, A. 2000. 'Creating a New Town  
831 koine: Children and language change in Milton Keynes.'  
832 *Language in Society*, 29(1), 65–115.
- 833 Labov, W. 1972a. *Sociolinguistic Patterns*. Philadelphia:  
834 University of Pennsylvania Press.
- 835 Labov, W. 1972b. 'Some principles of linguistic  
836 methodology.' *Language in Society*, 1(1), 97–120.
- 837 Labov, W. 1994. *Principles of Linguistic Change. Volume 1:*  
838 *Internal Factors*. Oxford: Blackwell.
- 839 Lanza, E. 1992. 'Can bilingual two-year-olds code-switch?'  
840 *Journal of Child Language*, 19, 633–658.
- 841 Mott, B. L. 2012. 'Traditional Cockney and popular  
842 London speech.' *Dialectologia: Revista Electrónica*, (9),  
843 69–94.
- 844 Podesva, R. 2007. 'Phonation type as a stylistic variable: The  
845 use of falsetto in constructing a persona.' *Journal of*  
846 *Sociolinguistics*, 11(4), 478–504.
- 847 Reid, E. 1978. 'Social and stylistic variation in the speech of  
848 children: Some evidence from Edinburgh.' In P. Trudgill  
849 (ed.), *Sociolinguistic Patterns in British English*. London:  
850 Edward Arnold, pp. 158–171.
- 851 Rickford, J. R. 2014. 'Situation: Stylistic variation in  
852 sociolinguistic corpora and theory.' *Language and*  
853 *Linguistics Compass*, 8(11), 590–603.
- 854 Rickford, J. R. & McNair-Knox, F. 1994. 'Addressee- and  
855 topic-influenced style shift: A quantitative sociolinguistic  
856 study.' In D. Biber & E. Finegan (eds.), *Sociolinguistic*  
857 *Perspectives on Register*. New York: Oxford University  
858 Press, pp. 235–276.
- 859 Roach, P. 2004. 'British English: Received Pronunciation.'  
860 *Journal of the International Phonetic Association*, 34(2),  
861 239–245.
- 862 Sharma, D. 2011. 'Style repertoire and social change in  
863 British Asian English.' *Journal of Sociolinguistics*, 15(4),  
864 464–492.
- 865 Sharma, D. 2018. 'Style dominance: attention, audience and  
866 the "real me".' *Language in Society*, 47(1), 1–31.
- 867 Sharma, D. & Rampton, B. 2015. 'Lectal Focusing in  
868 Interaction: a new methodology for the study of style  
869 variation.' *Journal of English Linguistics*, 43(1), 3–35.
- 870 Smith, J., Durham, M. & Richards, H. 2013. 'The social and  
871 linguistic in the acquisition of sociolinguistic variation.'  
872 *Linguistics*, 51(2), 258–324.
- 873
- 874
- 875
- 876
- 877
- 878
- 879
- 880



881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935

936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990

**Appendix: Token numbers**

participant	vowel	situation	Median F1	F1 IQR	Median F2	F2 IQR	Trajectory	Trajectory IQR	No. of tokens
Alexa		wordlist	650.08	116.83	2076.72	600.29	478.04	250.61	10
	FACE	interview	684.59	143.45	2114.53	467.08	362.86	351.24	15
		playground	732.57	61.33	1997.07	242.36	379.14	508.02	11
		wordlist	670.5	72.85	1489.32	41.94	537.14	227.99	6
	GOAT	interview	666.63	113.29	1444.57	383.75	209.4	276.52	25
		playground	770.69	135.27	1646.39	258.2	255.46	201.02	20
		wordlist	927.73	61.72	1437.09	199.91	677.86	315.53	10
	PRICE	interview	831.72	117.35	1671.48	249.77	417.04	290.49	26
		playground	929.58	105.86	1702.33	339.16	397.69	222.42	10
	Deborah		wordlist	562.91	78.31	2208.93	226.42	213.21	224.51
FACE		interview	530.45	84.91	2172.86	207.97	188.28	189.2	25
		playground	783.7	210.3	1882.28	177.22	317.47	280.72	16
		wordlist	566.88	64.6	1054.73	127.56	164.07	140.75	6
GOAT		interview	575.18	74.22	1543.91	327.93	156.45	180.94	29
		playground	784.04	141.65	1548.43	165.05	178.8	128.54	18
		wordlist	892.76	71.39	1660.59	174.32	459.91	421.56	11
PRICE		interview	787.82	118	1701.83	269.1	258.56	188.34	31
		playground	915.48	113.01	1710.51	339.05	340.28	166.06	16
Riley			wordlist	613.98	38.88	1964.16	109.97	295.02	246.19
	FACE	interview	553.06	74.34	2062.52	319.28	317.05	377.22	21
		playground	669.06	122.29	1983.03	224.24	277.49	220.27	18
		wordlist	574.55	73.57	1089.25	87.89	213.03	100.47	7
	GOAT	interview	552.33	99.99	1541.33	402.98	161.07	141.26	33
		playground	730.46	124.18	1643.04	394.45	200.12	128.24	22
	PRICE	wordlist	827.83	77.98	1405.95	145.43	481.86	230.1	8
		interview	787.51	82.95	1687.73	223.66	379.06	242.15	21
		playground	921.56	117.15	1642.19	229.23	366.28	364.03	18
	Sabrina		wordlist	574.85	106.89	2618.05	918.97	369.95	572.14
FACE		interview	578.88	84.28	2468.36	426.17	353.11	466.09	28
		playground	741.86	199.66	2076.19	268.55	248.89	208	14
		wordlist	630.11	63.75	1477.94	240.88	367.38	255.3	3
GOAT		interview	570.97	61.24	1188.16	287.39	147.3	214.46	25
		playground	801.7	128.56	1436.82	211.39	259.56	162.86	16
		wordlist	761.44	73.77	1168.93	117.18	1550.41	245.7	3
PRICE		interview	745.13	162.26	1311.57	270.82	642.24	639.77	18
		playground	975.64	208.51	1668.32	139.53	303.14	165.9	9

*Continued*

Appendix: Continued

participant	vowel	situation	Median		Median		Trajectory	Trajectory IQR	No. of tokens
			F1	F1 IQR	F2	F2 IQR			
		wordlist	711.07	66.46	2370.89	164.38	357.44	125.59	11
	<b>FACE</b>	interview	645.31	118.12	2205.19	215.09	271.81	470.35	27
		playground	798.44	94.47	2062.78	105.97	497.69	399.42	21
		wordlist	717.37	16.82	1166.81	119.18	203.01	129.97	7
<b>Tiarna</b>	<b>GOAT</b>	interview	714.17	106.85	1296.72	273.45	273.32	253.8	28
		playground	792.82	130.68	1576.34	252.79	246.94	130.41	27
		wordlist	935.21	50.85	1713.69	192.58	746.58	411.47	11
	<b>PRICE</b>	interview	924.75	119.08	1659.49	177.16	367.74	199.86	20
		playground	959.83	187.02	1707.57	226.78	296.91	356.71	14

991  
992  
993  
994  
995  
996  
997  
998  
999  
1000  
1001  
1002  
1003  
1004  
1005  
1006  
1007  
1008  
1009  
1010  
1011  
1012  
1013  
1014  
1015  
1016  
1017  
1018  
1019  
1020  
1021  
1022  
1023  
1024  
1025  
1026  
1027  
1028  
1029  
1030  
1031  
1032  
1033  
1034  
1035  
1036  
1037  
1038  
1039  
1040  
1041  
1042  
1043  
1044  
1045

1046  
1047  
1048  
1049  
1050  
1051  
1052  
1053  
1054  
1055  
1056  
1057  
1058  
1059  
1060  
1061  
1062  
1063  
1064  
1065  
1066  
1067  
1068  
1069  
1070  
1071  
1072  
1073  
1074  
1075  
1076  
1077  
1078  
1079  
1080  
1081  
1082  
1083  
1084  
1085  
1086  
1087  
1088  
1089  
1090  
1091  
1092  
1093  
1094  
1095  
1096  
1097  
1098  
1099  
1100