

Appendix

Experimental stimuli list: Test items

List A1				
Group	Target	Competitor	Glottalization	Block
Baseline	mass	math	Non-glott.	1
Baseline	moth	moss	Glott.	1
Baseline	worse	worth	Glott.	1
Baseline	path	pass	Non-glott.	1
Baseline	math	mass	Glott.	2
Baseline	moss	moth	Non-glott.	2
Baseline	worth	worse	Non-glott.	2
Baseline	pass	path	Glott.	2
Place	shop	shot	Non-glott.	1
Place	cot	cop	Glott.	1
Place	rap	rat	Glott.	1
Place	pot	pop	Non-glott.	1
Place	shot	shop	Glott.	2
Place	cop	cot	Non-glott.	2
Place	rat	rap	Non-glott.	2
Place	pop	pot	Glott.	2
Voicing	bat	bad	Non-glott.	1
Voicing	sad	sat	Glott.	1
Voicing	mat	mad	Glott.	1
Voicing	nod	not	Non-glott.	1
Voicing	tap	tab	Non-glott.	1
Voicing	cab	cap	Glott.	1
Voicing	nap	nab	Glott.	1
Voicing	mob	mop	Non-glott.	1
Voicing	bad	bat	Glott.	2
Voicing	sat	sad	Non-glott.	2
Voicing	mad	mat	Non-glott.	2
Voicing	not	nod	Glott.	2
Voicing	tab	tap	Glott.	2

Voicing	cap	cab	Non-glot.	2
Voicing	nab	nap	Non-glot.	2
Voicing	mop	mob	Glott.	2

List A2

Group	Target	Competitor	Glottalization	Block
Baseline	mass	math	Non-glot.	2
Baseline	moth	moss	Glott.	2
Baseline	worse	worth	Glott.	2
Baseline	path	pass	Non-glot.	2
Baseline	math	mass	Glott.	1
Baseline	moss	moth	Non-glot.	1
Baseline	worth	worse	Non-glot.	1
Baseline	pass	path	Glott.	1
Place	shop	shot	Non-glot.	2
Place	cot	cop	Glott.	2
Place	rap	rat	Glott.	2
Place	pot	pop	Non-glot.	2
Place	shot	shop	Glott.	1
Place	cop	cot	Non-glot.	1
Place	rat	rap	Non-glot.	1
Place	pop	pot	Glott.	1
Voicing	bat	bad	Non-glot.	2
Voicing	sad	sat	Glott.	2
Voicing	mat	mad	Glott.	2
Voicing	nod	not	Non-glot.	2
Voicing	tap	tab	Non-glot.	2
Voicing	cab	cap	Glott.	2
Voicing	nap	nab	Glott.	2
Voicing	mob	mop	Non-glot.	2
Voicing	bad	bat	Glott.	1
Voicing	sat	sad	Non-glot.	1
Voicing	mad	mat	Non-glot.	1
Voicing	not	nod	Glott.	1

Voicing	tab	tap	Glott.	1
Voicing	cap	cab	Non-glott.	1
Voicing	nab	nap	Non-glott.	1
Voicing	mop	mob	Glott.	1

List B1

Group	Target	Competitor	Glottalization	Block
Baseline	mass	math	Glott.	1
Baseline	moth	moss	Non-glott.	1
Baseline	worse	worth	Non-glott.	1
Baseline	path	pass	Glott.	1
Baseline	math	mass	Non-glott.	2
Baseline	moss	moth	Glott.	2
Baseline	worth	worse	Glott.	2
Baseline	pass	path	Non-glott.	2
Place	shop	shot	Glott.	1
Place	cot	cop	Non-glott.	1
Place	rap	rat	Non-glott.	1
Place	pot	pop	Glott.	1
Place	shot	shop	Non-glott.	2
Place	cop	cot	Glott.	2
Place	rat	rap	Glott.	2
Place	pop	pot	Non-glott.	2
Voicing	bat	bad	Glott.	1
Voicing	sad	sat	Non-glott.	1
Voicing	mat	mad	Non-glott.	1
Voicing	nod	not	Glott.	1
Voicing	tap	tab	Glott.	1
Voicing	cab	cap	Non-glott.	1
Voicing	nap	nab	Non-glott.	1
Voicing	mob	mop	Glott.	1
Voicing	bad	bat	Non-glott.	2
Voicing	sat	sad	Glott.	2
Voicing	mad	mat	Glott.	2

Voicing	not	nod	Non-glot.	2
Voicing	tab	tap	Non-glot.	2
Voicing	cap	cab	Glott.	2
Voicing	nab	nap	Glott.	2
Voicing	mop	mob	Non-glot.	2

List B2

Group	Target	Competitor	Glottalization	Block
Baseline	mass	math	Glott.	2
Baseline	moth	moss	Non-glot.	2
Baseline	worse	worth	Non-glot.	2
Baseline	path	pass	Glott.	2
Baseline	math	mass	Non-glot.	1
Baseline	moss	moth	Glott.	1
Baseline	worth	worse	Glott.	1
Baseline	pass	path	Non-glot.	1
Place	shop	shot	Glott.	2
Place	cot	cop	Non-glot.	2
Place	rap	rat	Non-glot.	2
Place	pot	pop	Glott.	2
Place	shot	shop	Non-glot.	1
Place	cop	cot	Glott.	1
Place	rat	rap	Glott.	1
Place	pop	pot	Non-glot.	1
Voicing	bat	bad	Glott.	2
Voicing	sad	sat	Non-glot.	2
Voicing	mat	mad	Non-glot.	2
Voicing	nod	not	Glott.	2
Voicing	tap	tab	Glott.	2
Voicing	cab	cap	Non-glot.	2
Voicing	nap	nab	Non-glot.	2
Voicing	mob	mop	Glott.	2
Voicing	bad	bat	Non-glot.	1
Voicing	sat	sad	Glott.	1

Voicing	mad	mat	Glott.	1
Voicing	not	nod	Non-glott.	1
Voicing	tab	tap	Non-glott.	1
Voicing	cap	cab	Glott.	1
Voicing	nab	nap	Glott.	1
Voicing	mop	mob	Non-glott.	1

Experimental stimuli list: Onset filler items

All onset fillers in both glottalization and non-glottalized forms were used with the same blocking order across all four experimental lists.

All Experimental Lists			
Target	Competitor	Glottalization	Blocking
note	dote	Glott.	1
neat	seat	Non-glott.	1
seed	deed	Glott.	1
food	mood	Non-glott.	1
night	light	Glott.	1
moat	boat	Non-glott.	1
duck	tuck	Glott.	1
ball	wall	Non-glott.	1
bore	wore	Glott.	1
bear	wear	Non-glott.	1
call	gall	Glott.	1
tear	dear	Non-glott.	1
make	wake	Glott.	1
day	say	Non-glott.	1
bull	pull	Glott.	1
love	dove	Non-glott.	1
dote	note	Glott.	1
seat	neat	Non-glott.	1
deed	seed	Glott.	1
mood	food	Non-glott.	1

light	night	Glott.	1
boat	moat	Non-glott.	1
tuck	duck	Glott.	1
wall	ball	Non-glott.	1
wore	bore	Glott.	1
wear	bear	Non-glott.	1
gall	call	Glott.	1
dear	tear	Non-glott.	1
wake	make	Glott.	1
say	day	Non-glott.	1
pull	bull	Glott.	1
dove	love	Non-glott.	1
note	dote	Non-glott.	2
neat	seat	Glott.	2
seed	deed	Non-glott.	2
food	mood	Glott.	2
night	light	Non-glott.	2
moat	boat	Glott.	2
duck	tuck	Non-glott.	2
ball	wall	Glott.	2
bore	wore	Non-glott.	2
bear	wear	Glott.	2
call	gall	Non-glott.	2
tear	dear	Glott.	2
make	wake	Non-glott.	2
day	say	Glott.	2
bull	pull	Non-glott.	2
love	dove	Glott.	2
dote	note	Non-glott.	2
seat	neat	Glott.	2
deed	seed	Non-glott.	2
mood	food	Glott.	2
light	night	Non-glott.	2

boat	moat	Glott.	2
tuck	duck	Non-glott.	2
wall	ball	Glott.	2
wore	bore	Non-glott.	2
wear	bear	Glott.	2
gall	call	Non-glott.	2
dear	tear	Glott.	2
wake	make	Non-glott.	2
say	day	Glott.	2
pull	bull	Non-glott.	2
dove	love	Glott.	2