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The adoption of sound change : synchronic and diachronic processing of regional variation in Dutch

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APPENDIX A

Prime–target list for Experiment 1 from Chapter 3

baube – zaube	blaulder – waulder	bredder – tedder
baube – zobe	blaulder – woolder	bredder – tijder
bauke – zauke	blauver – schauver	breelder – veelder
bauke – zoke	blauver – schover	breelder – vijlder
bebbe – webbe	blebe – zebe	brelder – welder
bebbe – wijbe	blebe – zijbe	brelder – wijlder
begge – wegge	blege – bege	brette – tette
begge – wijge	blege – bijge	brette – tijte
bekker – hekker	blelder – zelder	bretter – letter
bekker – hijker	blelder – zijlder	bretter – lijter
bemme – zemme	blene – hene	brever – tever
bemme – zijme	blene – hijne	brever – tijver
benne – henne	blete – lete	brevver – hevver
benne – hijne	blete – lijte	brevver – hijver
bezze – hezze	bleter – leter	bwelde – sleerde
bezze – hijze	bleter – lijter	bwelde – slijde
blaalder – zaalder	braalder – schaalder	dauver – trauver
blaude – graude	brauver – vauver	dauver – trover
blaude – grode	brauver – vover	debe – webe
blaulde – saulde	bredde – stedde	debe – wijbe
blaulde – soolde	bredde – stijde	dete – zete

dete – zijte	grauver – hover	kleelder – gjilder
deter – zeter	greelde – treelde	klelder – kwelder
deter – zijter	greelde – trijlde	klelder – kwijlder
devver – levver	greelder – teelder	kneelde – pleelde
devver – lijver	greelder – tijlder	kneelde – plijde
drever – rever	grelde – trelde	kraalder – raalder
drever – rijver	grelde – trijlde	kraulder – naulder
dweelder – bleelder	grelder – telder	kraulder – noolder
dweelder – blijlder	grelder – tijlder	kraver – paver
dwever – krever	grever – hever	kreder – deder
dwever – kriever	grever – hijver	kreder – dijder
faalder – haalder	grevver – revver	kreelder – feelder
fauver – jauver	grevver – rijver	kreelder – fijlder
fauver – jover	gweelde – fleelde	krelder – nelder
faver – taver	gweelde – fljilde	krelder – nijlder
fedde – sedde	hader – sader	kwaulde – gaulde
fedde – sijde	jaube – haube	kwaulde – goolde
fedder – kedder	jaube – hobe	kwaulder – fraulder
fedder – kijder	jauge – nauge	kwaulder – froolder
fevver – wevver	jauge – noge	kwaver – maver
fevver – wijver	jauter – nauter	kweelder – zeelder
flaalder – waalder	jauter – noter	kweelder – zijlder
flaulde – maulde	jauze – nauze	laalder – kaalder
flaulde – moolde	jauze – noze	lauder – zauder
flaulder – braulder	jede – krede	lauder – zoder
flaulder – broolder	jede – krijde	lebbe – zebbe
fleelder – seelder	jevver – sevver	lebbe – zijbe
fleelder – sjijlder	jevver – sijver	mauder – jauder
fielder – selder	kebe – tebe	mauder – joder
fielder – sjijlder	kebe – tijbe	meker – heker
fraalder – saalder	keder – zeder	meker – hijker
freelder – weelder	keder – zijder	nauve – zauve
freelder – wijlder	kegge – begge	nauve – zove
gader – tader	kegge – bijge	nebe – bebe
gauver – nauver	klaalder – draalder	nebe – bijbe
gauver – nover	klaulde – faulde	neke – heke
gleelde – kreelde	klaulde – foolde	neke – hijke
gleelde – krijldе	klaulder – laulder	nete – tete
gleerde – felde	klaulder – loolder	nete – tijte
gleerde – fljilde	klauver – vrauver	neter – teter
graalder – taalder	klauver – vrover	neter – tijter
grauver – hauver	kleelder – geelder	pader – jader

pauder – bauder	schauge – kauge	smelder – drijlder
pauder – boder	schauge – koge	snaulde – draulde
pevver – tevver	schauke – nauke	snaulde – droolde
pevver – tijver	schauke – noke	snaulder – graulder
pfelde – klelde	schaulder – jaulder	snaulder – groolder
pfelde – klijlde	schaulder – joolder	sneelde – sleeelde
pjaalder – staalder	schaver – kaver	sneelde – slijlde
pjelde – xelde	schevver – zevver	snever – jever
pjelde – xijlde	schevver – zijver	snever – jjiver
plaalder – vaalder	schraalder – jaalder	spaalder – gaalder
plaulde – vaulde	sedder – zedder	spaulde – naulde
plaulde – voolde	sedder – zijder	spaulde – noolde
plaulder – praulder	sfaulde – praulde	spaulder – gaulder
plaulder – proolder	sfaulde – proolde	spaulder – goolder
plauver – mauver	sfeelde – preelde	speelder – leelder
plauver – mover	sfeelde – prijlde	speelder – lijlder
pleelder – jeelder	sfelde – blelde	spever – dever
pleelder – jjilder	sfelde – blijlde	spever – dijver
pleerde – nelde	sjeelde – vreelde	spleelde – kleelde
pleerde – nijlde	sjeelde – vrijlde	spleelde – klijlde
pledler – jelder	skeelde – freelde	splelde – krelde
pledler – jjilder	skeelde – frijlde	splelde – krijlde
plever – pever	skelde – twelde	spraulde – braulde
plever – pijver	skelde – twijlde	spraulde – broolde
praalder – paalder	skelder – twelder	spraver – zaver
praver – saver	skelder – twijlder	spreelde – breelde
preelder – steelder	slaalder – kwaalder	spreelde – brijlde
preelder – stijlder	slaulde – baulde	sprelde – brelde
prelder – stelder	slaulde – boolde	sprelde – brijlde
prelder – stijlder	slaulder – taulder	sprever – mever
prever – twever	slaulder – toolder	sprever – mijver
prever – twijver	slaver – waver	sraulde – xaulde
psaulder – draulder	sleelder – peelder	sraulde – xoolde
psaulder – droolder	sleelder – pijlder	sreelde – greelde
pselde – lelde	slelder – dwelder	sreelde – grijlde
pselde – lijlde	slelder – dwijlder	srelde – grelde
rebe – hebe	smaalder – traalder	srelde – grijlde
rebe – hijbe	smeelde – bleelde	staude – gaude
sauver – bauver	smeelde – blijlde	staude – gode
sauver – bover	smelde – drelde	staulde – jaulde
schaube – kaube	smelde – drijlde	staulde – joold
schaube – kobe	smelder – drelder	staulder – raulder

staulder – roolder	tjelde – jijlde	vleerde – preerde
stauver – lauver	trauder – nauder	vleerde – prijlde
stauver – lover	trauder – noder	vrauder – vauder
staver – naver	trauge – kauge	vrauder – voder
stedder – hedder	trauge – koge	vraulde – waulde
stedder – hijder	traulder – haulder	vraulde – woolde
stette – hette	traulder – hoolder	vraulder – vaulder
stette – hijte	traute – jaute	vraulder – voolder
stetter – wetter	traute – jote	vraver – raver
stetter – wijter	traver – javer	vrebe – mebe
straulde – fraulde	treelder – neelder	vrebe – mijbe
straulde – froolde	treelder – nijlder	vreelder – deelder
straver – vaver	trelder – belder	vreelder – dijlder
strelde – freerde	trelder – bijlder	vrelder – delder
strelde – frijlide	trever – sever	vrelder – dijlder
strelder – frelder	trever – sijver	wauver – kauver
strelder – frijlder	twaalder – naalder	wauver – kover
strevver – mevver	twaulde – zaulde	weme – heme
strevver – mijver	twaulde – zoolde	weme – hijme
swaulde – kraulde	twaulder – maulder	wemme – hemme
swaulde – kroolde	twaulder – moolder	wemme – hijme
sweelde – leelde	twebe – lebe	weppe – heppe
sweelde – lijlide	twebe – lijbe	weppe – hijpe
sweelder – dreelder	tweder – heder	xaulder – saulder
sweelder – drijlder	tweder – hijder	xaulder – soolder
swelde – delde	tweelder – beelder	xeelde – neelde
swelde – dijlide	tweelder – bijlder	xeelde – nijlde
swelder – relder	tweke – meke	xelder – pelder
swelder – rijlder	tweke – mijke	xelder – pijlder
tater – jater	vaube – naube	zader – mader
taude – paude	vaube – nobe	zevve – hevve
taude – pode	vauge – nauge	zevve – hijve
tegge – wegge	vauge – noge	zwaulde – graulde
tegge – wijge	vauke – hauke	zwaulde – groolde
tetter – hetter	vauke – hoke	zwaver – baver
tetter – hijter	vedde – kedde	zweelde – jeelde
tezze – zezze	vedde – kijde	zweelde – jijlde
tezze – zijze	vedder – ledder	zweelder – reelder
tjaulder – baulder	vedder – lijder	zweelder – rijlder
tjaulder – boolder	vede – kede	zwelder – lelder
tjeelde – dreelde	vede – kijde	zwelder – lijlder
tjeelde – drijlde	vleelde – tweelde	
tjelde – jelde	vleelde – twijlde	

APPENDIX B

Word list for Experiment 2 from Chapter 3

Australische	aardigheid	autobiografische
Engelse	aardkorst	autobus
Engelsen	aardoppervlak	automaat
Keuls	aardrijkskunde	automatisch
Keulse	aardse	automatisering
L-vormig	aars	automatisme
Poolse	aartsbisschop	automobiel
aan	aarzelde	automobilisten
aandacht	aarzeling	autonome
aantal	afgebeuld	autonomie
aard	afgebeulde	autoritaire
aardappelen	audiovisuele	autoriteiten
aardbeien	augustus	autoweg
aardbeving	aula	basisschool
aardbodem	auteur	beeld
aardbol	authenticiteit	beulsknechten
aarde	authentieke	beulswerk
aardedonker	autisme	bijl
aardewerk	autistische	bijvoorbeeld
aardgas	auto	deel
aardig	autobiografie	doolhof

echt	ellende	heilzame
echter	elpee	heul
echtgenoot	elpenbenen	heus
echtgenote	els	heuvel
echtpaar	elzehout	hoeveel
economische	elzestruiken	hoeveelheid
een	en	hogeschool
eenheid	energie	houtskool
eenmaal	enerzijds	huilbui
eens	engel	huilde
eenvoudig	enige	iedereen
effect	enigszins	iemand
effectief	enkele	iets
eigen	enorme	ijdelheid
eigenaar	enthousiasme	ijl
eigenaardige	enthousiast	ijls
eigenbelang	enzovoort	ijver
eigendom	essentieel	ijverig
eigenlijk	eten	ijzer
eigenschappen	even	ijzeren
eiland	evenals	ingeruild
eind	eveneens	integendeel
einde	evenmin	jeugd
eindelijk	eventueel	keuken
eindeloos	evenwel	keus
eindigde	evenwicht	keuze
eis	exemplaren	kleuterschool
el	experiment	kool
elders	extra	kuil
eldorado	gedeelte	leuk
elementen	gedeeltelijk	leunde
elf	geheel	levensstijl
elfduizend	geheugen	machinepistool
elfenkoningin	gehuil	middenschool
elfhonderd	geil	mijl
elfstedentocht	geschoolde	milieu
elft	geul	monsieur
elftal	geultje	muil
elkaar	gezeuld	muilezels
elkander	grotendeels	nerveus
elke	heel	neus
elkeen	heil	oefenen

oefening	overigens	uil
oever	overkant	uit
ogen	overtuigd	uitbreiding
ogenblik	overtuiging	uitdrukking
olie	parool	uiteen
onderdeel	peil	uiteindelijk
onderwijs	personeel	uiteardaard
onheil	peul	uiterst
onheilspellend	peultjes	uitgangspunt
onverwijd	peulvruchten	uitgenodigd
ook	pijl	uitgesproken
oom	pistool	uitgevoerd
oordeel	pool	uiting
oosten	puilden	uitleg
openbare	religieuze	uitsluitend
opende	reusachtige	uitspraak
operatie	ruil	uitvoerig
oude	school	uitvoering
oudeaarsavond	schoolmeester	uitwerking
ouden	schooltijd	uitzicht
ouderdom	schoolwezen	uitzondering
ouderen	schuilging	vaargeul
ouderlijke	schuilkelder	veel
ouderling	schuilnaam	veelal
ouders	schuilplaats	verzeild
ouderschap	schuilt	viool
ouderwetse	serieus	vleugels
oudheid	sleutel	voorbeeld
oudjes	smeulde	voordeel
oudsher	smeulden	vreugde
oudste	smeult	vuil
out	speelde	vuilnisbak
output	steenkool	vuilnisbelt
over	steil	vuiltje
overall	steun	zeil
overeenkomst	stijl	zeildoek
overeenstemming	symbool	zeulde
overeind	teil	zeulden
overheid	terwijl	zeult
overige	teveel	zuil

APPENDIX C

Word list for Experiment 1 from Chapter 4

achteruitkijkspiegel	bewegingsmogelijkheden	deugdzaamheid
adieu	bezopener	dialogen
afstotelijk	bijgepunt	dichtstbijzijnde
alleenstaand	blasfemie	doodstraf
auto-ongevallen	boerderij	dreun
autokerkhoven	bonis	dromen
autoritje	breakdancing	droogkamer
autosleutels	breedgeschouerde	droogshampoo
bakkerij	brekebeen	dweep
bedruipende	buidelrat	eindig
beenbeschermers	buil	eindresultaten
beenbreuken	buis	enigszins
beloninkje	buiswater	entertainer
bereid	buitenland	eureka
bereikbaar	buitenschools	evenwicht
bespeel	bullshit	existentieel
beu	bureaublad	familiariteit
beugel	cacao	filosoof
beul	cacaoboom	financieel
beult	degusteren	foyer
bevrijdingsactie	deug	fundamenteel

gebruiksmogelijkheden	huisnummer	meineed
geelst	huisschilders	mitotisch
geestesleven	iel	morfologische
gefoezel	ijlkoorts	necrofiel
geilaard	ijsbeer	nijlpaard
geilheid	immoreel	nijpender
gelegenheden	kaneel	nobelere
gelouterde	kannibaals	noordpoolcirkel
genereus	kleuter	officieus
geneugten	kleverigheid	omgeving
geul	kloostermuren	onderkoeld
geweigerd	knuisten	ondersteun
gonorroe	kokosvlees	onophoudelijk
goud	komen	onpeilbaar
grootbrengen	koolblad	ontboden
heethoofd	koolsoep	ontleedtafel
heil	koolzuurgas	ontsteking
heildronk	koopziek	onverdeeld
heul	kreek	onverwijld
heulde	kwartaal	oostelijk
heult	kwartaalblad	oosterse
heup	kwijl	ouden
heus	langszijsde	ouderdomsproces
heuvel	leid	ouderlijk
hogelijk	leidinggevende	ouderling
holocaust	lepelaar	ouderschapsverlof
hoofdrol	leugenaar	oudste
hoog	levendig	oudtante
hoogmoed	lijk	oudtantes
houder	lijntrekkers	overgehaald
hout	lou	overgestapt
houtbewerker	louter	overgezonden
houthandelaren	luistervinkte	overgrootvader
houtig	makreel	peil
houtindustrie	manipulatie	peilsignaal
houtluis	mantilla	peilstift
houtsnijder	medisch	peilstok
houtsnijwerken	meegesleept	personeelsbestand
houtwerker	meegevoerd	personeelsgegevens
houweel	meekwamen	personenwagen
huichelaar	meervoudige	pieptoon
huiskamerbijeenkomst	meinedig	pijlinktvís

pijlsnel	schuilgehouden	uitbuiten
pijn	schuilhut	uitdrukking
pijpkruid	schuilkelder	uitgehuwelijkt
pistoolgreep	schuilnaam	uitgekeken
polio	schuilplaats	uitgerekend
pruikje	sein	uitgroeide
pruil	smeul	uithoren
pruimentaart	smeult	uitladen
pUILde	smoel	uitnamen
raap	speelbal	uitpuilend
rancuneus	speelbare	uitreiking
religieus	speelgoedwinkel	uitscheld
reserveren	speelhal	uitspraak
rijnstenen	speelkaart	uiertzwaaien
rijzige	speelmakker	veiligheidsredenen
rioolrat	speelster	veiligheidsscheermes
rioolstelsel	staal	veiligheidssituatie
risico-kinderen	staalplaat	verbeid
ritueel	stoomstrijkijzers	verdraaglijk
rovertje	strategen	verdrievooudigd
ruil	stuiptrekkende	vereenzaamd
ruilbeurs	stuiter	vereisen
ruilhandel	stuiver	vergeet
ruilmiddel	subtiel	vergeving
saus	suikerraffinaderij	verhouding
schadelijk	suikerziek	verijs
schapenfarm	tegenstrijdig	verkoelde
schoolagenda	tegenvoeter	vermeende
schoolfrik	terpentine	verpauperd
schoolgebied	terwijl	verpersoonlijk
schooljuffrouw	textielindustrie	verruil
schoolkameraad	thuishoorden	verschuil
schoolkamp	thuismarkt	verstuikt
schoolkleuren	tijdregistratie	vertonen
schoolreis	tijdschema	vervloek
schoolteam	tijdsprobleem	vervuil
schoolvoorstelling	toegespitst	verzeild
schoolvriend	toveraar	verzwijg
schoolziek	uil	vleesetende
schroothoop	uilskuiken	vleeshouwer
schuiladres	uitbarsten	vleugel
schuilgaan	uitbazuinen	vloekwoord

waarheidlievend	zeilt	zoem
wede	zeiltocht	zotternij
wezenfonds	zeilwedstrijd	zouden
wijdvertakte	zeug	zoutarm
wijnhuis	zeul	zoutjes
wijnkleurige	zeulde	zoutwinning
wijziging	zeult	zuil
woonark	zintuiglijk	zwoel
zedelijkheidsgevoel	zodanig	

APPENDIX D

Full BLUPs for Experiment 1 from Chapter 4

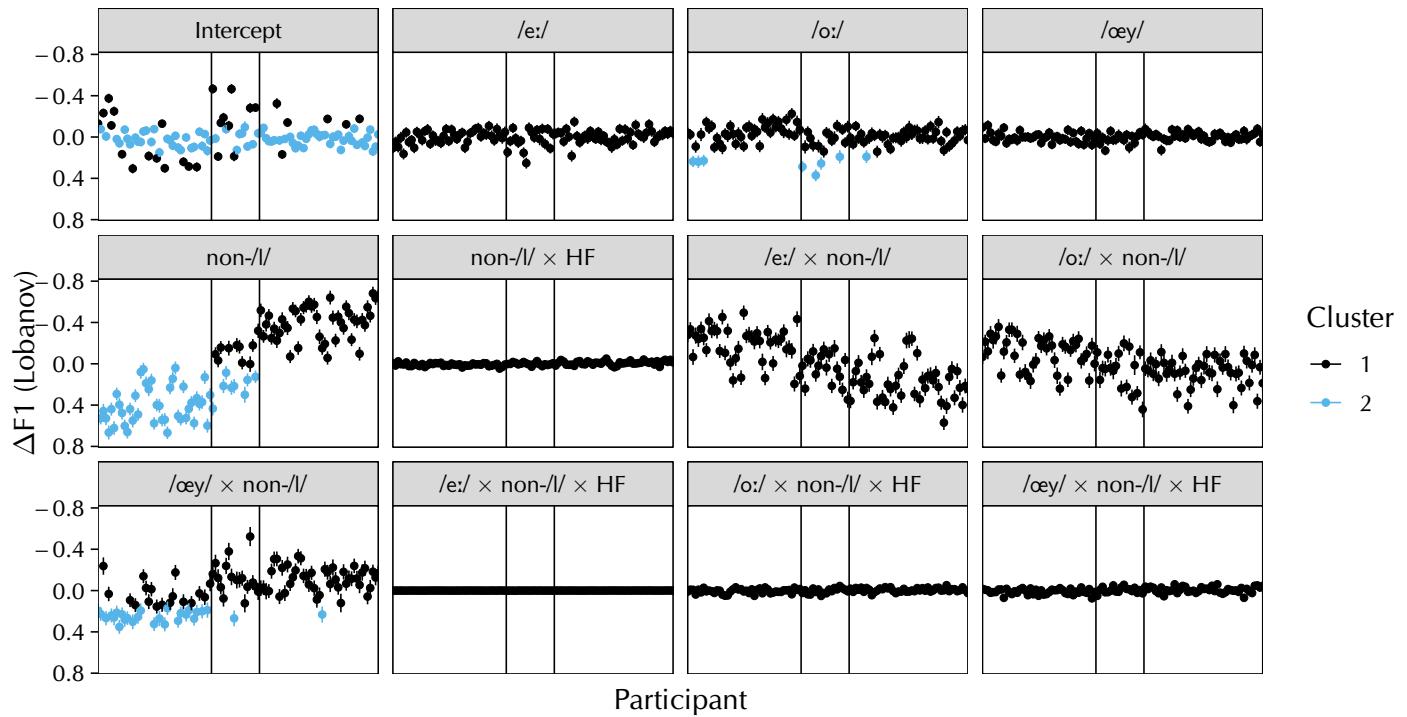


Figure D.1: Separate BLUPs for each of the random effects present in the by-individuals ($n = 106$) model for the production data, with separate cluster analyses for each panel. As in Figure 4.3, each panel is separated into three panes; the left pane shows the participants from the Ghent group, the middle pane shows the participants from the migrant group, and the right pane shows the participants from the Leiden group.

APPENDIX E

Prime–target list for Experiment 2 from Chapter 4

bauke – zauke	blebe – zijbe	bretter – letter
bauke – zoke	blege – bege	bretter – lijter
bebbe – webbe	blege – bijge	brever – tever
bebbe – wijbe	blelder – zelder	brever – tijver
begge – wegge	blelder – zijlder	bwelde – sleerde
begge – wijge	blene – hene	bwelde – slijde
bekker – hekker	blene – hijne	dauver – trauver
bekker – hijker	blete – lete	dauver – trover
bemme – zemme	blete – lijte	debe – webe
bemme – zijme	bleter – leter	debe – wijbe
benne – henne	bleter – lijter	deter – zeter
benne – hijne	brauver – vauver	deter – zijter
bezze – hezze	brauver – vover	devver – levver
bezze – hijze	bredde – stedde	devver – lijver
blaude – graude	bredde – stijde	drever – rever
blaude – grode	bredder – tedder	drever – rijver
blaulder – waulder	bredder – tijder	dweelder – bleelder
blaulder – woolder	breelder – veelder	dweelder – blijlder
blauver – schauver	breelder – vijlder	dwever – krever
blauver – schover	brette – tette	dwever – krijver
blebe – zebe	brette – tijte	fauver – jauver

fauver – jover	jede – krijde	meker – hijker
fedde – sedde	jevver – sevver	nauve – zauve
fedde – sijde	jevver – sijver	nauve – zove
fedder – kedder	kebe – tebe	nebe – bebe
fedder – kijder	kebe – tijbe	nebe – bijbe
fevver – wevver	keder – zeder	neke – heke
fevver – wijver	keder – zijder	neke – hijke
flaulde – maulde	kegge – begge	nete – tete
flaulde – moolde	kegge – bijge	nete – tijte
flaulder – braulder	klaulde – faulde	neter – teter
flaulder – broolder	klaulde – foolde	neter – tijter
fleelder – seelder	klaulder – laulder	pauder – bauder
fleelder – sijlder	klaulder – loolder	pauder – boder
fielder – selder	klauver – vrauver	pevver – tevver
fielder – sijlder	klauver – vrover	pevver – tijver
gauver – nauver	kleelder – geelder	pfelde – klelde
gauver – nover	kleelder – gjilder	pfelde – klijde
gleelde – kreelde	klelder – kwelder	pjelde – xelde
gleelde – krijlde	klelder – kwijlder	pjelde – xijlde
gleerde – feldé	kneelde – pleelde	plaulde – vaulde
gleerde – flijde	kneelde – plijlde	plaulde – voolde
greelde – treelde	kraulder – naulder	plaulder – praulder
greelde – trijlde	kraulder – noolder	plaulder – proolder
greelder – teelder	kreder – deder	plauber – mauver
greelder – tijlder	kreder – dijder	plauber – mover
grelde – trelde	kreelder – feelder	pleelder – jeelder
grelde – trijlde	kreelder – fijlder	pleelder – ijlder
grelder – telder	krelder – nelder	pledler – jelder
grelder – tijlder	krelder – njilder	pledler – ijilder
grevver – revver	kwalde – gaulde	plever – pever
grevver – rijver	kwalde – goolde	plever – pijver
gweelde – fleelde	kwalder – fraulder	preelder – steelder
gweelde – flijde	kwalder – froolder	preelder – stijlder
jaube – haube	kweelder – zeelder	prelder – stelder
jaube – hobe	kweelder – zijlder	prelder – stijlder
jauge – nauge	lauder – zauder	prever – twever
jauge – noge	lauder – zoder	prever – twijver
jauter – nauter	lebbe – zebbe	psaulder – draulder
jauter – noter	lebbe – zijbe	psaulder – droolder
jauze – nauze	mauder – jauder	pselde – lelde
jauze – noze	mauder – joder	pselde – lijlde
jede – krede	meker – heker	rebe – hebe

rebe – hijbe	smelder – drijlder	stauver – lover
sauver – bauver	snaulde – draulde	stedder – hedder
sauver – bover	snaulde – droolde	stedder – hijder
schaube – kaube	snaulder – graulder	stetter – wetter
schaube – kobe	snaulder – groolder	stetter – wijter
schauge – kauge	sneelde – sleelde	straulde – fraulde
schauge – koge	sneelde – slijlde	straulde – froolde
schauke – nauke	snever – jever	strelde – freerde
schauke – noke	snever – jijver	strelde – frijde
schaulder – jaulder	spaulde – naulde	strelder – frelder
schaulder – joolder	spaulde – noolde	strelder – frijder
schevver – zevver	spaulder – gaulder	strevver – mevver
schevver – zijver	spaulder – goolder	strevver – mijver
sedder – zedder	speelder – leelder	swaulde – kraulde
sedder – zijder	speelder – lijlder	swaulde – kroolde
sfaulde – praulde	spever – dever	sweelde – leelde
sfaulde – proolde	spever – dijver	sweelde – lijdde
sfeelde – preelde	spleelde – kleelde	sweelder – dreelder
sfeelde – prijle	spleelde – klijde	sweelder – drijlder
sfelde – blelde	spleelde – krelde	swelde – delde
sfelde – bljld	spleelde – krijde	swelde – dijde
sjeelde – vreelde	spraulde – braulde	swelder – relder
sjeelde – vrijde	spraulde – broolde	swelder – rijlder
skeelde – freelde	spreelde – breelde	taude – paude
skeelde – frijde	spreelde – brijde	taude – pode
skelde – twelde	sprelde – brelde	tegge – wegge
skelde – twijlde	sprelde – brijlde	tegge – wijge
skelder – twelder	sprever – mever	tetter – hetter
skelder – twijlder	sprever – mijver	tetter – hijter
slaulde – baulde	sraulde – xaulde	tezze – zezze
slaulde – boolde	sreelde – greelde	tezze – zijze
slaulder – taulder	sreelde – grijlde	tjaulder – baulder
slaulder – toolder	srelde – grelde	tjaulder – boolder
sleelder – peelder	srelde – grijlde	tjeelde – dreelde
sleelder – pijlder	staude – gause	tjeelde – drijlde
slelder – dwelder	staude – gode	tjelde – jelde
slelder – dwijlder	staude – jaulde	tjelde – jijlde
smeelde – bleelde	staude – joold	trauder – nauder
smeelde – blijd	staulder – raulder	trauder – noder
smelde – drelde	staulder – roolder	trauge – kauge
smelde – drijlde	stauver – lauver	trauge – koge
smelder – drelder		trauta – jaute

traute – jote
 treelder – neelder
 treelder – nijlder
 trelder – belder
 trelder – bijlder
 trever – sever
 trever – sijver
 twaulde – zaulde
 twaulde – zoolde
 twaulder – maulder
 twaulder – moolder
 twebe – lebe
 twebe – lijbe
 tweder – heder
 tweder – hijder
 tweelder – beelder
 tweelder – bijlder
 tweke – meke
 tweke – mijke
 vaube – naube
 vaube – nobe
 vauge – nauge
 vauge – noge

vauke – hauke
 vauke – hoke
 vedde – kedde
 vedde – kijde
 vedder – ledder
 vedder – lijder
 vede – kede
 vede – kijde
 vleelde – tweelde
 vleelde – twijlde
 vleerde – prelde
 vleerde – prijilde
 vrauder – vauder
 vrauder – voder
 vraulde – waulde
 vraulde – woolde
 vraulder – vaulder
 vraulder – voolder
 vrebe – mebe
 vrebe – mijbe
 vreelder – deelder
 vreelder – dijlder
 vreelder – delder

vrelder – dijlder
 wauver – kauver
 wauver – kover
 weme – heme
 weme – hijme
 wemme – hemme
 wemme – hijme
 weppe – heppe
 weppe – hijpe
 xaulder – saulder
 xaulder – soolder
 xelder – pelder
 xelder – pijlder
 zevve – hevve
 zevve – hijve
 zwaulde – graulde
 zwaulde – groolde
 zweelde – jeelde
 zweelde – jijlde
 zweelder – reelder
 zweelder – rijlder
 zwelder – lelder
 zwelder – lijlder

APPENDIX F

Full results of Experiment 2 from Chapter 4

Factor	Estimate (SE)	Odds ratio	z	p	Sig.
Model = [e:~εi]					
Intercept	-1.46 (0.10)	1 :4.30	-14.49	<.001	***
Step (Linear)	1.24 (0.13)	3.47 :1	9.87	<.001	***
Step (Quadratic)	0.33 (0.08)	1.39 :1	4.22	<.001	***
Step (Cubic)	0.03 (0.08)	1.03 :1	0.34	.74	
Following segment = /l/	0.83 (0.11)	2.29 :1	7.59	<.001	***
Group = Migrant–Ghent	-0.51 (0.13)	1 :1.66	-3.95	<.001	***
Group = Leiden–Others	0.07 (0.06)	1.07 :1	1.06	.29	
Step (Linear) × /l/	1.68 (0.21)	5.37 :1	8.14	<.001	***
Step (Quadratic) × /l/	-0.15 (0.14)	1 :1.16	-1.07	.29	
Step (Cubic) × /l/	-0.13 (0.14)	1 :1.14	-0.92	.36	
Step (Linear) × Migrant–Ghent	0.63 (0.15)	1.87 :1	4.06	<.001	***
Step (Quadratic) × Migrant–Ghent	-0.04 (0.08)	1 :1.04	-0.47	.64	
Step (Cubic) × Migrant–Ghent	0.05 (0.07)	1.05 :1	0.66	.51	
Step (Linear) × Leiden–Others	0.01 (0.07)	1.01 :1	0.17	.87	
Step (Quadratic) × Leiden–Others	0.04 (0.04)	1.04 :1	1.11	.27	
Step (Cubic) × Leiden–Others	-0.05 (0.03)	1 :1.05	-1.49	.14	
Following segment = /l/ × Migrant–Ghent	0.26 (0.13)	1.30 :1	2.05	.04	
Following segment = /l/ × Leiden–Others	0.08 (0.06)	1.08 :1	1.31	.19	
Model = [o:~əu]					
Intercept	0.20 (0.07)	1.22 :1	2.76	.01	*
Step (Linear)	1.73 (0.15)	5.65 :1	11.48	<.001	***
Step (Quadratic)	0.45 (0.11)	1.57 :1	4.17	<.001	***
Step (Cubic)	-0.03 (0.11)	1 :1.03	-0.28	.78	

Factor	Estimate (SE)	Odds ratio	z	p	Sig.
Following segment = /l/	0.95 (0.12)	2.59 : 1	7.83	<.001	***
Step (Linear) × /l/	-0.66 (0.25)	1 : 1.93	-2.67	.01	*
Step (Quadratic) × /l/	-0.74 (0.22)	1 : 2.09	-3.32	<.001	**
Step (Cubic) × /l/	-0.19 (0.22)	1 : 1.21	-0.88	.38	
Model = [ε~εi]					
Intercept	-0.94 (0.07)	1 : 2.55	-13.12	<.001	***
Step (Linear)	2.49 (0.15)	12.06 : 1	16.44	<.001	***
Step (Quadratic)	0.27 (0.10)	1.31 : 1	2.59	.01	*
Step (Cubic)	-0.74 (0.11)	1 : 2.09	-6.99	<.001	***
Following segment = /l/	0.96 (0.12)	2.60 : 1	7.90	<.001	***
Group = Migrant–Ghent	-0.21 (0.08)	1 : 1.23	-2.64	.01	*
Group = Leiden–Others	0.09 (0.04)	1.10 : 1	2.50	.01	*
Step (Linear) × /l/	-1.38 (0.24)	1 : 3.98	-5.84	<.001	***
Step (Quadratic) × /l/	0.25 (0.21)	1.29 : 1	1.22	.22	
Step (Cubic) × /l/	0.87 (0.21)	2.38 : 1	4.13	<.001	***
Step (Linear) × Migrant–Ghent	0.43 (0.17)	1.53 : 1	2.52	.01	*
Step (Quadratic) × Migrant–Ghent	0.09 (0.09)	1.09 : 1	0.99	.32	
Step (Cubic) × Migrant–Ghent	-0.20 (0.09)	1 : 1.22	-2.25	.02	
Step (Linear) × Leiden–Others	-0.23 (0.08)	1 : 1.26	-2.91	<.01	*
Step (Quadratic) × Leiden–Others	-0.03 (0.04)	1 : 1.03	-0.67	.50	
Step (Cubic) × Leiden–Others	0.04 (0.04)	1.04 : 1	1.08	.28	
Following segment = /l/ × Migrant–Ghent	0.11 (0.12)	1.12 : 1	0.92	.36	
Following segment = /l/ × Leiden–Others	0.01 (0.06)	1.01 : 1	0.15	.88	
Step (Linear) × /l/ × Migrant–Ghent	-0.24 (0.23)	1 : 1.27	-1.04	.30	

Factor	Estimate (SE)	Odds ratio	z	p	Sig.
Step (Quadratic) \times /l/ \times Migrant–Ghent	0.28 (0.18)	1.32 : 1	1.57	.12	
Step (Cubic) \times /l/ \times Migrant–Ghent	0.39 (0.18)	1.47 : 1	2.15	.03	
Step (Linear) \times /l/ \times Leiden–Others	-0.31 (0.11)	1 : 1.36	-2.95	<.01	**
Step (Quadratic) \times /l/ \times Leiden–Others	-0.18 (0.08)	1 : 1.19	-2.26	.02	
Step (Cubic) \times /l/ \times Leiden–Others	-0.09 (0.08)	1 : 1.10	-1.14	.25	

Bibliography

- Adank, P. M. (2003). *Vowel normalization: A perceptual-acoustic study of Dutch vowels* (Doctoral dissertation). Katholieke Universiteit Nijmegen. <https://doi.org/10.2666/19286>
- Adank, P. M., van Hout, R. W. N. M., & Smits, R. (2004). An acoustic description of the vowels of Northern and Southern Standard Dutch. *The Journal of the Acoustical Society of America*, 116, 1729–1738. <https://doi.org/10.1121/1.1779271>
- Adank, P. M., van Hout, R. W. N. M., & Van de Velde, H. (2007). An acoustic description of the vowels of Northern and Southern Standard Dutch II: Regional varieties. *The Journal of the Acoustical Society of America*, 121, 1130–1141. <https://doi.org/10.1121/1.2409492>
- Adank, P., Smits, R., & van Hout, R. (2004). A comparison of vowel normalization procedures for language variation research. *The Journal of the Acoustical Society of America*, 116, 3099–3107. <https://doi.org/10.1121/1.1795335>
- Akaike, H. (1973). Information theory and an extension of the maximum likelihood principle. In: B. N. Petrov & F. Csáki (Eds.). *2nd International Symposium on Information Theory, Tsahkadsor, Armenia, USSR, September 2–8, 1971*. Akadémiai Kiadó.
- Allen, J., Kraus, N., & Bradlow, A. (2000). Neural representation of consciously imperceptible speech sound differences. *Perception & Psychophysics*, 62, 1383–1393. <https://doi.org/10.3758/BF03212140>
- Alshangiti, W., & Evans, B. G. (2011). Regional accent accommodation in spontaneous speech: Evidence for long-term accent change? In: W. S. Lee & E. Zee (Eds.). *Proceedings of the 17th International Congress of Phonetic Sciences (ICPhS), Hong Kong, 17–21 August*.
- Auer, P., Barden, B., & Grosskopf, B. (1998). Subjective and objective parameters determining ‘salience’ in long-term dialect accommodation. *Jour-*

- nal of Sociolinguistics*, 2, 163–187. <https://doi.org/10.1111/1467-9481.00039>
- Auer, P., & Hinskens, F. (2005). The role of interpersonal accommodation in a theory of language change. *Dialect Change: Convergence and Divergence in European Languages*, 335. <https://doi.org/10.1017/CBO9780511486623.015>
- Baayen, H., Vasishth, S., Kliegl, R., & Bates, D. (2017). The cave of shadows: Addressing the human factor with generalized additive mixed models. *Journal of Memory and Language*, 94, 206–234. <https://doi.org/10.1016/j.jml.2016.11.006>
- Baayen, R. H., Davidson, D. J., & Bates, D. M. (2008). Mixed-effects modeling with crossed random effects for subjects and items. *Journal of Memory and Language*, 59, 390–412. <https://doi.org/10.1016/j.jml.2007.12.005>
- Baayen, R. H., Piepenbrock, R., & Gulikers, L. (1995). The CELEX lexical database (release 2). *Linguistic Data Consortium*.
- Babel, M., Haber, G., & Walters, S. (2013). Individual-level connections between perceptual adaptation and phonetic imitation. *Proceedings of the workshop on sound change actuation, University of Chicago*.
- Baker, A., Archangeli, D., & Mielke, J. (2011). Variability in American English s-retraction suggests a solution to the actuation problem. *Language Variation and Change*, 23, 347–374. <https://doi.org/10.1017/S095439451000135>
- Baldeweg, T., Klugman, A., Gruzelier, J. H., & Hirsch, S. R. (2002). Impairment in frontal but not temporal components of mismatch negativity in schizophrenia. *International Journal of Psychophysiology*, 43, 111–122. [https://doi.org/10.1016/s0167-8760\(01\)00183-0](https://doi.org/10.1016/s0167-8760(01)00183-0)
- Barbiers, S. et al. (2006). *Dynamische Syntactische Atlas van de Nederlandse Dialecten (DynaSAND)*. <http://www.meertens.knaw.nl/sand/>
- Barr, D. J., Levy, R., Scheepers, C., & Tily, H. J. (2013). Random effects structure for confirmatory hypothesis testing: Keep it maximal. *Journal of Memory and Language*, 68, 255–278. <https://doi.org/10.1016/j.jml.2012.11.001>
- Bates, D., Kliegl, R., Vasishth, S., & Baayen, H. (2015a). Parsimonious mixed models. *arXiv preprint arXiv:1506.04967*.
- Bates, D., Mächler, M., Bolker, B., & Walker, S. (2015b). Fitting linear mixed-effects models using lme4. *Journal of Statistical Software*, 67, 1–48. <https://doi.org/10.18637/jss.v067.i01>
- Bauer, L. (1985). Tracing phonetic change in the received pronunciation of British English. *Journal of Phonetics*, 13, 61–81. [https://doi.org/10.1016/S0095-4470\(19\)30726-0](https://doi.org/10.1016/S0095-4470(19)30726-0)

- Becker, M., & Tessier, A.-M. (2011). Trajectories of faithfulness in child-specific phonology. *Phonology*, 28, 163–196. <https://doi.org/10.1017/S0952675711000133>
- Beddor, P. S. (2009). A coarticulatory path to sound change. *Language*, 785–821. <https://doi.org/10.1353/lan.0.0165>
- Beddor, P. S. (2015). The relation between language users' perception and production repertoires. In: The Scottish Consortium for ICPHS 2015 (Ed.). *Proceedings of the 18th International Congress of Phonetic Sciences (ICPhS XVIII)*. International Phonetic Association.
- Beddor, P. S., Coetzee, A. W., Styler, W., McGowan, K. B., & Boland, J. E. (2018). The time course of individuals' perception of coarticulatory information is linked to their production: Implications for sound change. *Language*, 94, 931–968. <https://doi.org/10.1353/lan.2018.0051>
- Bermúdez-Otero, R. (2007). Diachronic phonology. In: P. de Lacy (Ed.). *The Cambridge handbook of phonology*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511486371>
- Bermúdez-Otero, R. (2015). Amphichronic explanation and the life cycle of phonological processes. In: P. Honeybone & J. Salmons (Eds.). *The Oxford handbook of historical phonology*. Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780199232819.013.014>
- Berns, J., & Jacobs, H. (2012). A first glance at the role of length in production and perception of diphthongs before Dutch coda l. *Linguistics in the Netherlands*, 29, 15–26. <https://doi.org/10.1075/avt.29.02ber>
- Berwick, R. C. (1985). *The acquisition of syntactic knowledge*. MIT Press.
- Blankenstein, H. (1994). Wij, hai en zaai. *NRC Handelsblad*, (15 December 1994), 32.
- Blevins, J. (2004). *Evolutionary phonology: The emergence of sound patterns*. Cambridge University Press.
- Boersma, P. (2011). A programme for bidirectional phonology and phonetics and their acquisition and evolution. *Bidirectional Optimality Theory*, 180, 33. <https://doi.org/10.1075/la.180.02boe>
- Boersma, P., & Hamann, S. (2008). The evolution of auditory dispersion in bidirectional constraint grammars. *Phonology*, 25, 217–270. <https://doi.org/10.1017/S095267570800147>
- Boersma, P., & Weenink, D. (2016, September 26). *Praat: Doing phonetics by computer* (Version 6.0.21). <http://www.praat.org/>
- Booij, E. E. (1995). *The phonology of Dutch*. Oxford University Press.
- Bosker, H. R., & Reinisch, E. (2015). Normalization for speechrate in native and nonnative speech. *18th International Congress of Phonetic Sciences (ICPhS 2015)*. <https://doi.org/10.1017/S0952675715000147>

- Botma, B., Sebregts, K., & Smakman, D. (2012). The phonetics and phonology of Dutch mid vowels before /l/. *Laboratory Phonology*, 3, 273–297. <https://doi.org/10.1515/lp-2012-0015>
- Bowie, D. (2000). *The effect of geographic mobility on the retention of a local dialect* (Doctoral dissertation). University of Pennsylvania.
- Brooks, M. E., Kristensen, K., van Benthem, K. J., Magnusson, A., Berg, C. W., Nielsen, A., Skaug, H. J., Maechler, M., & Bolker, B. M. (2017). glmmTMB balances speed and flexibility among packages for zero-inflated generalized linear mixed modeling. *The R Journal*, 9(2), 378–400. <https://journal.r-project.org/archive/2017/RJ-2017-066/index.html>
- Bürkner, P.-C. (2017). brms: An R package for Bayesian multilevel models using Stan. *Journal of Statistical Software*, 80, 1–28. <https://doi.org/10.18637/jss.v080.i01>
- Bürkner, P.-C. (2018). Advanced Bayesian multilevel modeling with the R package brms. *The R Journal*, 10, 395–411. <https://doi.org/10.32614/RJ-2018-017>
- Bybee, J. (2002). Word frequency and context of use in the lexical diffusion of phonetically conditioned sound change. *Language Variation and Change*, 14, 261–290. <https://doi.org/10.1017/S0954394502143018>
- Bybee, J. L., & Slobin, D. I. (1982). Why small children cannot change language on their own: Suggestions from the English past tense. In: A. Alqvist (Ed.). *Papers from the Fifth International Conference on Historical Linguistics*. John Benjamins Publishing Company.
- Carter, P. (2007). Phonetic variation and speaker agency: Mexicana identity in a North Carolina middle school. *University of Pennsylvania Working Papers in Linguistics*, 13(2), 1–14.
- Cedergren, H. (1987). The spread of language change: Verifying inferences of linguistic diffusion. *Language Spread and Language Policy: Issues, Implications, and Case Studies*, 45–60. <https://doi.org/10.822/555480>
- Chambers, J. K. (1992). Dialect acquisition. *Language*, 68, 673–705. <https://doi.org/10.1353/lan.1992.0060>
- Clark, H. H. (1973). The language-as-fixed-effect fallacy: A critique of language statistics in psychological research. *Journal of Verbal Learning and Verbal Behavior*, 12, 335–359. [https://doi.org/10.1016/S0022-5371\(73\)80014-3](https://doi.org/10.1016/S0022-5371(73)80014-3)
- Coetzee, A. W., Beddor, P. S., Shedden, K., Styler, W., & Wissing, D. (2018). Plosive voicing in Afrikaans: Differential cue weighting and tonogenesis. *Journal of Phonetics*, 66, 185–216. <https://doi.org/10.1016/j.wocn.2017.09.009>
- Collins, B., & Mees, I. M. (1999). *The phonetics of English and Dutch*. Brill Academic Publishers Incorporated.

- Cornell, S. A., Lahiri, A., & Eulitz, C. (2011). "What you encode is not necessarily what you store": Evidence for sparse feature representations from mismatch negativity. *Brain Research*, 1394, 79–89. <https://doi.org/10.1016/j.brainres.2011.04.001>
- Craddock, M. (2019). *eegUtils: A collection of utilities for EEG analysis*. R package version 0.4.0. R package version 0.4.0. <https://github.com/craddm/eegUtils>
- Cutler, A. (2012). *Native listening*. MIT Press.
- Cutler, A., McQueen, J. M., Butterfield, S., & Norris, D. (2008). Prelexically-driven perceptual retuning of phoneme boundaries. In: The International Speech Communications Association (Ed.). *Interspeech 2008*. <https://doi.org/10.1016/j.brainres.2006.02.010>
- Dambacher, M., Kliegl, R., Hofmann, M., & Jacobs, A. M. (2006). Frequency and predictability effects on event-related potentials during reading. *Brain Research*, 1084, 89–103. <https://doi.org/10.1016/j.brainres.2006.02.010>
- De Decker, P. (2006). A real-time investigation of social and phonetic changes in post-adolescence. *University of Pennsylvania Working Papers in Linguistics*, 12(2), 7.
- De Wulf, C., Goossens, J., & Taeldeman, J. (2005). *Fonologische atlas van de Nederlandse dialecten. Deel IV: De consonanten* (Vol. 1). Koninklijke Academie voor Nederlandse Taal-en Letterkunde.
- Delarue, S. (2013). Teachers' Dutch in Flanders: The last guardians of the standard? In: T. Kristiansen & S. Grondelaers (Eds.). *Language (de)standardisation in Late Modern Europe: Experimental studies*. Novus Forlag. <https://doi.org/10.1016/j.langstd.2013.09.002>
- Denis, D. (2011). Innovators and innovation: Tracking the innovators of and stuff in York English. *University of Pennsylvania Working Papers in Linguistics*, 17(2), 8.
- Deouell, L. Y. (2007). The frontal generator of the mismatch negativity revisited. *Journal of Psychophysiology*, 21, 188–203. <https://doi.org/10.1027/0269-8803.21.34.188>
- Domahs, U., Kehrein, W., Knaus, J., Wiese, R., & Schlesewsky, M. (2009). Event-related potentials reflecting the processing of phonological constraint violations. *Language and Speech*, 52, 415–435. <https://doi.org/10.1177/0023830909336581>
- Drager, K., & Hay, J. (2012). Exploiting random intercepts: Two case studies in sociophonetics. *Language Variation and Change*, 24, 59–78. <https://doi.org/10.1017/S0954394512000014>
- Eekhof, L. S., Kuijpers, M., Faber, M., Gao, X., Mak, M., van den Hoven, E., & Willems, R. M. (submitted). Lost in a story, detached from the words:

- Absorbed readers are less sensitive to word characteristics during narrative reading. *Discourse Processes*.
- Evans, B. G., & Iverson, P. (2007). Plasticity in vowel perception and production: A study of accent change in young adults. *The Journal of the Acoustical Society of America*, 121, 3814–3826. <https://doi.org/10.1121/1.2722209>
- Fisher, R. A. (1955). Statistical methods and scientific induction. *Journal of the Royal Statistical Society: Series B (Methodological)*, 17(1), 69–78. <https://www.jstor.org/stable/2983785>
- Fisher, R. A. (1956). *Statistical methods and scientific inference*. Oliver & Boyd.
- Flege, J. E. (1987). The production of “new” and “similar” phones in a foreign language: Evidence for the effect of equivalence classification. *Journal of Phonetics*, 15, 47–65. [https://doi.org/10.1016/S0095-4470\(19\)30537-6](https://doi.org/10.1016/S0095-4470(19)30537-6)
- Flege, J. E., & Wayland, R. (2019). The role of input in native Spanish late learners’ production and perception of English phonetic segments. *Journal of Second Language Studies*, 2, 1–44. <https://doi.org/10.1075/jsls.00004.fle>
- Flooccia, C., Butler, J., Goslin, J., & Ellis, L. (2009). Regional and foreign accent processing in English: Can listeners adapt? *Journal of Psycholinguistic Research*, 38, 379–412. <https://doi.org/10.1007/s10936-008-9097-8>
- Flooccia, C., Goslin, J., Girard, F., & Konopczynski, G. (2006). Does a regional accent perturb speech processing? *Journal of Experimental Psychology: Human Perception and Performance*, 32, 1276. <https://doi.org/10.1037/0096-1523.32.5.1276>
- Fokkema, M., Smits, N., Zeileis, A., Hothorn, T., & Kelderman, H. (2018). Detecting treatment-subgroup interactions in clustered data with generalized linear mixed-effects model trees. *Behavior Research Methods*, 50, 2016–2034. <https://doi.org/10.3758/s13428-017-0971-x>
- Friederici, A. D., Pfeifer, E., & Hahne, A. (1993). Event-related brain potentials during natural speech processing: Effects of semantic, morphological and syntactic violations. *Cognitive Brain Research*, 1, 183–192. [https://doi.org/10.1016/0926-6410\(93\)90026-2](https://doi.org/10.1016/0926-6410(93)90026-2)
- Ganong III, W. F. (1980). Phonetic categorization in auditory word perception. *Journal of Experimental Psychology: Human Perception and Performance*, 6(1), 110–125.
- Gaskell, M. G., & Dumay, N. (2003). Lexical competition and the acquisition of novel words. *Cognition*, 89, 105–132. [https://doi.org/10.1016/s0010-0277\(03\)00070-2](https://doi.org/10.1016/s0010-0277(03)00070-2)
- Gerritsen, M., & Jansen, F. (1980). Word frequency and lexical diffusion in dialect borrowing and phonological change. In: W. Zonneveld, F. van Coetsem, & O. W. Robinson (Eds.). *Dutch studies 4: Studies in Dutch*

- phonology*. Martinus Nijhoff. https://doi.org/10.1007/978-94-009-8855-2_3
- Giard, M.-H., Perrin, F., Pernier, J., & Bouchet, P. (1990). Brain generators implicated in the processing of auditory stimulus deviance: A topographic event-related potential study. *Psychophysiology*, 27, 627–640. <https://doi.org/10.1111/j.1469-8986.1990.tb03184.x>
- Gigerenzer, G. (2004). Mindless statistics. *The Journal of Socio-Economics*, 33, 587–606. <https://doi.org/10.1016/j.socec.2004.09.033>
- Giles, H., Coupland, N., & Coupland, J. (1991). Accommodation theory: Communication, context, and consequence. In: H. Giles, J. Coupland, & N. Coupland (Eds.). *Contexts of accommodation: Developments in applied sociolinguistics* (pp. 1–68). Cambridge University Press. <https://doi.org/10.1017/CBO9780511663673.001>
- Giles, H., & Smith, P. M. (1979). Accommodation theory: Optimal levels of convergence. In: H. Giles & R. St Clair (Eds.). *Language and social psychology* (pp. 45–65). Blackwell.
- Giles, H., Taylor, D. M., & Bourhis, R. (1973). Towards a theory of interpersonal accommodation through language: Some Canadian data. *Language in Society*, 2, 177–192. <https://doi.org/10.1017/S0047404500000701>
- Goossens, J., Taeldeman, J., & Verleyen, G. (1998). *Fonologische atlas van de Nederlandse dialecten. Deel I: Het korte vocalisme*. Koninklijke Academie voor Nederlandse Taal-en Letterkunde.
- Gordon, E., & MacLagan, M. (2001). 'Capturing a sound change': A real time study over 15 years of the NEAR/SQUARE diphthong merger in New Zealand English. *Australian Journal of Linguistics*, 21, 215–238. <https://doi.org/10.1080/07268600120080578>
- Goslin, J., Duffy, H., & Floccia, C. (2012). An ERP investigation of regional and foreign accent processing. *Brain and Language*, 122, 92–102. <https://doi.org/10.1016/j.bandl.2012.04.017>
- Grondelaers, S., & van Hout, R. (2011). The standard language situation in the low countries: Top-down and bottom-up variations on a diaglossic theme. *Journal of Germanic Linguistics*, 23, 199–243. <https://doi.org/10.1017/S1470542711000110>
- Grondelaers, S., & van Hout, R. (2012). Where is Dutch (really) heading?: The classroom consequences of destandardization. *Dutch Journal of Applied Linguistics*, 1, 41–58. <https://doi.org/10.1075/dujal.1.1.05gro>
- Grosvald, M., & Corina, D. (2012). The production and perception of subphonemic vowel contrasts and the role of the listener in sound change. In: M.-J. Solé & D. Recasens (Eds.). *The initiation of sound change: Perception, production, and social factors*. John Benjamins Publishing Company. <https://doi.org/10.1075/cilt.323.08gro>

- Guion, S. G. (1998). The role of perception in the sound change of velar palatalization. *Phonetica*, 55, 18–52. <https://doi.org/10.1159/000028423>
- Gussenhoven, C. (1993). The Dutch foot and the chanted call. *Journal of Linguistics*, 29, 37–63. <https://doi.org/10.1017/S0022226700000049>
- Gussenhoven, C. (1999). Dutch. In: International Phonetic Association (Ed.). *Handbook of the International Phonetic Association: A guide to the use of the International Phonetic Alphabet*. Cambridge University Press.
- Gussenhoven, C., & Aarts, F. (1999). The dialect of Maastricht. *Journal of the International Phonetic Association*, 29, 155–166. <https://doi.org/10.1017/S0025100300006526>
- Gussenhoven, C., & Broeders, A. (1976). *The pronunciation of English: A course for Dutch learners*. Wolters-Noordhoff-Longman.
- Haeri, N. (1991). *Sociolinguistic variation in Cairene Arabic: Palatalization and the Qaf in the speech of men and women* (Doctoral dissertation). University of Pennsylvania.
- Halekoh, U., & Højsgaard, S. (2014). A Kenward-Roger approximation and parametric bootstrap methods for tests in linear mixed models – the R package pbkrtest. *Journal of Statistical Software*, 59, 1–30. <https://doi.org/10.18637/jss.v059.i09>
- Hamann, S. (2009). The learner of a perception grammar as a source of sound change. In: P. Boersma & S. Hamann (Eds.). *Phonology in perception*. Mouton de Gruyter.
- Harrington, J. (2006). An acoustic analysis of 'happy-tensing' in the Queen's Christmas broadcasts. *Journal of Phonetics*, 34, 439–457. <https://doi.org/10.1016/j.wocn.2005.08.001>
- Harrington, J. (2007). Evidence for a relationship between synchronic variability and diachronic change in the Queen's annual Christmas broadcasts. *Laboratory Phonology*, 9, 125–143.
- Harrington, J., Kleber, F., & Reubold, U. (2008). Compensation for coarticulation, /u/-fronting, and sound change in Standard Southern British: An acoustic and perceptual study. *The Journal of the Acoustical Society of America*, 123, 2825–2835. <https://doi.org/10.1121/1.2897042>
- Harrington, J., Palethorpe, S., & Watson, C. (2000). Monophthongal vowel changes in Received Pronunciation: An acoustic analysis of the Queen's Christmas broadcasts. *Journal of the International Phonetic Association*, 30, 63–78. <https://doi.org/10.1017/S0025100300006666>
- Harrington, J., Palethorpe, S., & Watson, C. (2005). Deepening or lessening the divide between diphthongs? An analysis of the Queen's annual Christmas broadcasts. In: W. J. Harcastle & J. M. Beck (Eds.). *A figure of speech: A festschrift for John Laver*. Lawrence Erlbaum.

- van der Harst, S. (2011). *The vowel space paradox: A sociophonetic study on Dutch* (Doctoral dissertation). Radboud Universiteit Nijmegen. LOT. <https://doi.org/2066/86656>
- van der Harst, S., Van de Velde, H., & van Hout, R. (2014). Variation in Standard Dutch vowels: The impact of formant measurement methods on identifying the speaker's regional origin. *Language Variation and Change*, 26, 247–272. <https://doi.org/10.1017/S0954394514000040>
- Hastie, T., & Tibshirani, R. (1987). Generalized additive models: Some applications. *Journal of the American Statistical Association*, 82(398), 371–386. <https://www.jstor.org/stable/2289439>
- Hay, J., & Drager, K. (2010). Stuffed toys and speech perception. *Linguistics*, 48, 865–892. <https://doi.org/10.1515/ling.2010.027>
- Henderson, C. R. (1950). Estimation of genetic parameters. *Annals of Mathematical Statistics*, 21, 309–310.
- Hestvik, A., & Durvasula, K. (2016). Neurobiological evidence for voicing underspecification in English. *Brain and Language*, 152, 28–43. <https://doi.org/10.1016/j.bandl.2015.10.007>
- van Heuven, V. J., Van Bezooijen, R., & Edelman, L. J. (2005). Pronunciation of /ei/ in avant-garde Dutch: A cross-sex acoustic study. In: M. Filppula, J. Klemola, M. Palander, & E. Penttilä (Eds.). *Dialects across borders*. John Benjamins Publishing Company. <https://hdl.handle.net/11245/1.246311>
- Hinton, M. (2015). Changes in Received Pronunciation: Diachronic case studies. *Research in Language*, 13, 21–37. <https://doi.org/10.1515/rela-2015-0010>
- van Hout, R. W. N. M., de Schutter, G., de Crom, E., Huinck, W., Kloots, H., & Van de Velde, H. (1999). De uitspraak van het Standaard-Nederlands. Variatie en varianten in Vlaanderen en Nederland. In: E. Huls & B. Weltens (Eds.). *Artikelen van de derde sociolinguïstische conferentie*. Eburon.
- Hyman, L. M. (1976). Phonologization. In: A. Juillard (Ed.). *Linguistic studies offered to Joseph Greenberg on the occasion of his sixtieth birthday*. Anima Libri.
- Hyman, L. M. (2013). Enlarging the scope of phonologization. In: A. C. L. Yu (Ed.). *Origins of sound change: Approaches to phonologization*. Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199573745.001.0001>
- Jacobi, I. (2009). *On variation and change in diphthongs and long vowels of spoken Dutch* (Doctoral dissertation). Universiteit van Amsterdam. <https://doi.org/11245/1.316951>
- Jacobsen, T. K. (2015). *Preattentive phonotactic processing* (Doctoral dissertation). Helmut-Schmidt-Universität.

- Janson, T. (1983). Sound change in perception and production. *Language*, 18–34. <https://doi.org/10.2307/414059>
- Jeffreys, H. (1961). *Theory of probability* (3rd ed.). Oxford University Press.
- Johnson, D. E. (2007). Stability and change along a dialect boundary: The low vowels of southeastern New England. *University of Pennsylvania Working Papers in Linguistics*, 13(1), 7.
- Judd, C. M., Westfall, J., & Kenny, D. A. (2017). Experiments with more than one random factor: Designs, analytic models, and statistical power. *Annual Review of Psychology*, 68, 601–625. <https://doi.org/10.1146/annurev-psych-122414-033702>
- Karush, W. (1939). *Minima of functions of several variables with inequalities as side constraints* (Master's thesis). University of Chicago.
- Kawahara, H., Morise, M., Takahashi, T., Nisimura, R., Irino, T., & Banno, H. (2008). Tandem-STRAIGHT: A temporally stable power spectral representation for periodic signals and applications to interference-free spectrum, fo, and aperiodicity estimation. *IEEE International Conference on Acoustics, Speech and Signal Processing*. IEEE. <https://doi.org/10.1109/ICASSP.2008.4518514>
- Kazanina, N., Phillips, C., & Idsardi, W. (2006). The influence of meaning on the perception of speech sounds. *Proceedings of the National Academy of Sciences*, 103, 11381–11386. <https://doi.org/10.1073/pnas.0604821103>
- Kenward, M. G., & Roger, J. H. (1997). Small sample inference for fixed effects from restricted maximum likelihood. *Biometrics*, 983–997. <https://doi.org/10.2307/2533558>
- Keuleers, E., Brysbaert, M., & New, B. (2010). SUBTLEX-NL: A new measure for Dutch word frequency based on film subtitles. *Behavior Research Methods*, 42, 643–650. <https://doi.org/10.3758/BRM.42.3.643>
- Kewley-Port, D. (1995). Thresholds for formant-frequency discrimination of vowels in consonantal context. *The Journal of the Acoustical Society of America*, 97, 3139–3146. <https://doi.org/10.1121/1.413106>
- Kleber, F., Harrington, J., & Reubold, U. (2012). The relationship between the perception and production of coarticulation during a sound change in progress. *Language and Speech*, 55, 383–405. <https://doi.org/10.1177/0023830911422194>
- Kliegl, R., Wei, P., Dambacher, M., Yan, M., & Zhou, X. (2011). Experimental effects and individual differences in linear mixed models: Estimating the relationship between spatial, object, and attraction effects in visual attention. *Frontiers in Psychology*, 1, 238. <https://doi.org/10.3389/fpsyg.2010.00238>
- Kruschke, J. K. (2010a). Bayesian data analysis. *WIREs Cognitive Science*, 1, 658–676. <https://doi.org/10.1002/wcs.72>

- Kruschke, J. K. (2010b). What to believe: Bayesian methods for data analysis. *Trends in Cognitive Sciences*, 14, 293–300. <https://doi.org/10.1016/j.tics.2010.05.001>
- Kruschke, J. K., & Liddell, T. M. (2018). The Bayesian new statistics: Hypothesis testing, estimation, meta-analysis, and power analysis from a Bayesian perspective. *Psychonomic Bulletin & Review*, 25, 178–206. <https://doi.org/10.3758/s13423-016-1221-4>
- Kuhl, P. K., Tsao, F.-M., & Liu, H.-M. (2003). Foreign-language experience in infancy: Effects of short-term exposure and social interaction on phonetic learning. *Proceedings of the National Academy of Sciences*, 100, 9096–9101. <https://doi.org/10.1073/pnas.1532872100>
- Kuhn, H. W., & Tucker, A. W. (1951). Nonlinear programming. In: J. Neyman (Ed.). *Proceedings of the second Berkeley symposium on mathematical statistics and probability*, University of California Press.
- Kujala, T., Tervaniemi, M., & Schröger, E. (2007). The mismatch negativity in cognitive and clinical neuroscience: Theoretical and methodological considerations. *Biological Psychology*, 74, 1–19. <https://doi.org/10.1016/j.biopsych.2006.06.001>
- Kung, C., Chwillia, D. J., & Schriefers, H. (2014). The interaction of lexical tone, intonation and semantic context in on-line spoken word recognition: An ERP study on Cantonese Chinese. *Neuropsychologia*, 53, 293–309. <https://doi.org/10.1016/j.neuropsychologia.2013.11.020>
- Kuznetsova, A., Brockhoff, P. B., & Christensen, R. H. B. (2017). lmerTest package: Tests in linear mixed effects models. *Journal of Statistical Software*, 82, 1–26. <https://doi.org/10.18637/jss.v082.i13>
- Labov, W. (1994). *Principles of linguistic change. Volume I: Internal factors*. Blackwell.
- Labov, W. (2001). *Principles of linguistic change. Volume II: Social factors*. Blackwell.
- Labov, W. (2007). Transmission and diffusion. *Language*, 83, 344–387. <https://doi.org/10.1353/lan.2007.0082>
- Labov, W., Rosenfelder, I., & Fruehwald, J. (2013). One hundred years of sound change in Philadelphia: Linear incrementation, reversal, and reanalysis. *Language*, 30–65. <https://doi.org/10.1353/lan.2013.0015>
- Labov, W., Yaeger, M., & Steiner, R. (1972). *A quantitative study of sound change in progress*. University of Philadelphia.
- Lahiri, A., & Reetz, H. (2010). Distinctive features: Phonological underspecification in representation and processing. *Journal of Phonetics*, 38, 44–59. <https://doi.org/10.1016/j.wocn.2010.01.002>
- Lanwermeyer, M., Henrich, K., Rocholl, M. J., Schnell, H. T., Werth, A., Herrgen, J., & Schmidt, J. E. (2016). Dialect variation influences the phonological and lexical-semantic word processing in sentences: Electrophysiological

- ical evidence from a cross-dialectal comprehension study. *Frontiers in Psychology*, 7, 739. <https://doi.org/10.3389/fpsyg.2016.00739>
- Lev-Ari, S. (2018). Social network size can influence linguistic malleability and the propagation of linguistic change. *Cognition*, 176, 31–39. <https://doi.org/10.1016/j.cognition.2018.03.003>
- Levelt, W. J. M., Roelofs, A., & Meyer, A. S. (1999). A theory of lexical access in speech production. *Behavioral and Brain Sciences*, 22, 1–38. <https://doi.org/10.1017/S0140525X99001776>
- Lindblom, B., Guion, S., Hura, S., Moon, S.-J., & Willerman, R. (1995). Is sound change adaptive? *Rivista di linguistica*, 7, 5–36.
- Liu, B., Jin, Z., Wang, Z., & Xin, S. (2011). An ERP study on whether the P600 can reflect the presence of unexpected phonology. *Experimental Brain Research*, 212, 399–408. <https://doi.org/10.1007/s00221-011-2739-3>
- Lo, S., & Andrews, S. (2015). To transform or not to transform: Using generalized linear mixed models to analyse reaction time data. *Frontiers in Psychology*, 6, 1171. <https://doi.org/10.3389/fpsyg.2015.01171/full>
- Mahajan, Y., Peter, V., & Sharma, M. (2017). Effect of EEG referencing methods on auditory mismatch negativity. *Frontiers in Neuroscience*, 11, 560. <https://doi.org/10.3389/fnins.2017.00560>
- Mak, M., & Willems, R. M. (2019). Mental simulation during literary reading: Individual differences revealed with eye-tracking. *Language, Cognition and Neuroscience*, 1–25. <https://doi.org/10.1080/23273798.2018.1552007>
- Mann, V. A., & Repp, B. H. (1980). Influence of vocalic context on perception of the [ʃ]-[s] distinction. *Perception & Psychophysics*, 28, 213–228. <https://doi.org/10.3758/BF03204377>
- Maris, E., & Oostenveld, R. (2007). Nonparametric statistical testing of EEG- and MEG-data. *Journal of Neuroscience Methods*, 164, 177–190. <https://doi.org/10.1016/j.jneumeth.2007.03.024>
- Marslen-Wilson, W. (1973). Linguistic structure and speech shadowing at very short latencies. *Nature*, 244, 522. <https://doi.org/10.1038/244522a0>
- Matuschek, H., Kliegl, R., Vasishth, S., Baayen, H., & Bates, D. (2017). Balancing Type I error and power in linear mixed models. *Journal of Memory and Language*, 94, 305–315. <https://doi.org/10.1016/j.jml.2017.01.001>
- Maye, J., Aslin, R. N., & Tanenhaus, M. K. (2008). The weckud wetch of the wast: Lexical adaptation to a novel accent. *Cognitive Science*, 32, 543–562. <https://doi.org/10.1080/03640210802035357>
- McQueen, J. M. (1993). Rhyme decisions to spoken words and nonwords. *Memory & Cognition*, 21(2), 210–222.
- McQueen, J. M., Cutler, A., & Norris, D. (2006). Phonological abstraction in the mental lexicon. *Cognitive Science*, 30, 1113–1126. https://doi.org/10.1207/s15516709cog0000_79

- Mees, I., & Collins, B. (1983). A phonetic description of the vowel system of Standard Dutch (ABN). *Journal of the International Phonetic Association*, 13, 64–75. <https://doi.org/10.1017/S0025100300002565>
- Milroy, J. (1993). On the social origins of language change. *Historical Linguistics: Problems and Perspectives*, 215, 236. <https://doi.org/10.4324/9781315845814>
- Mitterer, H., & Blomert, L. (2003). Coping with phonological assimilation in speech perception: Evidence for early compensation. *Perception & Psychophysics*, 65, 956–969. <https://doi.org/10.3758/BF03194826>
- Näätänen, R. (1990). The role of attention in auditory information processing as revealed by event-related potentials and other brain measures of cognitive function. *Behavioral and Brain Sciences*, 13, 201–233. <https://doi.org/10.1017/S0140525X00078407>
- Näätänen, R., & Alho, K. (1997). Mismatch negativity—the measure for central sound representation accuracy. *Audiology and Neurotology*, 2, 341–353. <https://doi.org/10.1159/000259255>
- Näätänen, R., Paavilainen, P., Rinne, T., & Alho, K. (2007). The mismatch negativity (MMN) in basic research of central auditory processing: A review. *Clinical Neurophysiology*, 118, 2544–2590. <https://doi.org/10.1016/j.clinph.2007.04.026>
- Nahkola, K., & Saanilahti, M. (2004). Mapping language changes in real time: A panel study on Finnish. *Language Variation and Change*, 16, 75–92. <https://doi.org/10.1017/S0954394504162017>
- Neyman, J. (1950). *First course in probability and statistics*. Henry Holt & Company.
- Neyman, J. (1957). “Inductive behavior” as a basic concept of philosophy of science. *Revue de l’Institut International de Statistique*, 7–22. <https://www.jstor.org/stable/1401671>
- Norris, D., McQueen, J. M., & Cutler, A. (2003). Perceptual learning in speech. *Cognitive Psychology*, 47, 204–238. [https://doi.org/10.1016/S0010-0285\(03\)00006-9](https://doi.org/10.1016/S0010-0285(03)00006-9)
- Nycz, J. (2011). *Second dialect acquisition: Implications for theories of phonological representation* (Doctoral dissertation). New York University.
- Nycz, J. (2015). Second dialect acquisition: A sociophonetic perspective. *Language and Linguistics Compass*, 9, 469–482. <https://doi.org/10.1111/lnc3.12163>
- Nycz, J. (2013). Changing words or changing rules? Second dialect acquisition and phonological representation. *Journal of Pragmatics*, 52, 49–62. <https://doi.org/10.1016/j.pragma.2012.12.014>
- Nygaard, L. C., Sommers, M. S., & Pisoni, D. B. (1994). Speech perception as a talker-contingent process. *Psychological Science*, 5, 42–46. <https://doi.org/10.1111/j.1467-9280.1994.tb00612.x>

- Ohala, J. J. (1981). The listener as a source of sound change. In: C. S. Masek, R. A. Hendrick, & M. F. Miller (Eds.). *Proceedings of the Chicago Linguistics Society 17: Papers from the parasession on language and behaviour*. University of Chicago Press.
- Ohala, J. J. (1989). Sound change is drawn from a pool of synchronic variation. In: L. E. Breivik & E. H. Jahr (Eds.). *Language change: Contributions to the study of its causes*. Mouton de Gruyter. <https://doi.org/10.1515/9783110853063.173>
- Ohala, J. J. (2012). The listener as a source of sound change: An update. In: M.-J. Solé & D. Recasens (Eds.). *The initiation of sound change: Perception, production, and social factors*. John Benjamins Publishing Company. <https://doi.org/10.1075/cilt.323.05oha>
- van Oostendorp, M. (2000). *Phonological projection: A theory of feature content and prosodic structure*. Walter de Gruyter.
- van Oostendorp, M. (2008). Hoe de slot-r verdween uit het Nederlands: Ook koningin Beatrix volgt uitspraakverandering. *Onze Taal*, 2(3), 53–55.
- Osterhout, L., & Holcomb, P. J. (1992). Event-related brain potentials elicited by syntactic anomaly. *Journal of Memory and Language*, 31, 785–806. [https://doi.org/10.1016/0749-596X\(92\)90039-Z](https://doi.org/10.1016/0749-596X(92)90039-Z)
- Osthoff, H., & Brugmann, K. (1878). *Morphologische Untersuchungen auf dem Gebiete der indogermanischen Sprachen*. S. Hirzel.
- Palmeri, T. J., Goldinger, S. D., & Pisoni, D. B. (1993). Episodic encoding of voice attributes and recognition memory for spoken words. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 19, 309. <https://doi.org/10.1037/0278-7393.19.2.309>
- Pardo, J. S. (2006). On phonetic convergence during conversational interaction. *The Journal of the Acoustical Society of America*, 119, 2382–2393. <https://doi.org/10.1121/1.2178720>
- Pardo, J. S. (2012). Reflections on phonetic convergence: Speech perception does not mirror speech production. *Language and Linguistics Compass*, 6, 753–767. <https://doi.org/10.1002/lnc3.367>
- Pardo, J. S., Gibbons, R., Suppes, A., & Krauss, R. M. (2012). Phonetic convergence in college roommates. *Journal of Phonetics*, 40, 190–197. <https://doi.org/10.1016/j.wocn.2011.10.001>
- Passy, P. (1890). *Etude sur les changements phonétiques et leurs caractères généraux*. Librairie Firmin-Didot.
- Pater, J., Sanders, L., Moore-Cantwell, C., Staubs, R., & Zobel, B. H. (submitted). *Event-related potential evidence of abstract phonological learning in the laboratory*. Preprint available at <http://www.clairemoorecantwell.org/phonolearn/moore-cantwell-et-al-2018-ERP-ALL.pdf>. Preprint available at <http://www.clairemoorecantwell.org/phonolearn/moore-cantwell-et-al-2018-ERP-ALL.pdf>.

- Peeters, W. J. M. (1991). *Diphthong dynamics: A cross-linguistic perceptual analysis of temporal patterns in Dutch, English, and German*. Mondiss.
- Peirce, J. W. (2007). Psychopy—psychophysics software in Python. *Journal of Neuroscience Methods*, 162, 8–13. <https://doi.org/10.1016/j.jneumeth.2006.11.017>
- Picton, T. W., Bentin, S., Berg, P., Donchin, E., Hillyard, S. A., Johnson, R., Miller, G. A., Ritter, W., Ruchkin, D. S., Rugg, M. D., & Taylor, M. J. (2000). Guidelines for using human event-related potentials to study cognition: Recording standards and publication criteria. *Psychophysiology*, 37, 127–152. <https://doi.org/10.1111/1469-8986.3720127>
- Pierrehumbert, J. (2001). Exemplar dynamics: Word frequency, lenition and contrast. In: J. Bybee & P. Hopper (Eds.). *Frequency and the emergence of linguistic structure*. John Benjamins Publishing Company. <https://doi.org/10.1075/tsl.45.08pie>
- Pinget, A.-F. C. H. (2015). *The actuation of sound change* (Doctoral dissertation). Universiteit Utrecht. LOT. <https://doi.org/10.1874/318102>
- Pinget, A.-F. C. H., Kager, R., & Van de Velde, H. (2019). Linking variation in perception and production in sound change: Evidence from Dutch obstruent devoicing. *Language and Speech*, 1–26. <https://doi.org/10.1177/0023830919880206>
- Prince, E. F. (1987). Sarah Gorby, Yiddish folksinger: A case study of dialect shift. *International Journal of the Sociology of Language*, 83–116. <https://doi.org/10.1515/ijsl.1987.67.83>
- Psychology Software Tools (2012). *E-Prime* (Version 2.0). <https://www.pstnet.com>
- R Core Team (2020). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. <https://www.R-project.org/>
- Rácz, P. (2013). *Salience in sociolinguistics: A quantitative approach*. Walter de Gruyter.
- Ramsammy, M. (2015). The life cycle of phonological processes: Accounting for dialectal microtypologies. *Language and Linguistics Compass*, 9(1), 33–54. <https://doi.org/10.1111/lnc3.12102>
- van Reenen, P., & Jongkind, A. (2000). De vocalisering van de /l/ in het Standaard-Nederlands. *Taal en Tongval*, 52(1), 189–199.
- Rinne, T., Alho, K., Ilmoniemi, R. J., Virtanen, J., & Näätänen, R. (2000). Separate time behaviors of the temporal and frontal mismatch negativity sources. *Neuroimage*, 12, 14–19. <https://doi.org/10.1006/nim.2000.0591>
- Romeo, R. R., Leonard, J. A., Robinson, S. T., West, M. R., Mackey, A. P., Rowe, M. L., & Gabrieli, J. D. E. (2018). Beyond the 30-million-word gap: Children's conversational exposure is associated with language-related

- brain function. *Psychological science*, 29, 700–710. <https://doi.org/10.1177/0956797617742725>
- Ruijgrok, B. J. (2018). *Tapping into semantic recovery: An event-related potential study on the processing of gapping and stripping* (Doctoral dissertation). Universiteit Leiden. LOT. <https://doi.org/10.1887/62457>
- Sankoff, G. (2004). Adolescents, young adults and the critical period: Two case studies from 'Seven Up'. *Sociolinguistic variation: Critical reflections*, 121–39.
- Sankoff, G., & Blondeau, H. (2007). Language change across the lifespan: /r/ in Montreal French. *Language*, 83, 560–588. <https://www.jstor.org/stable/40070902>
- Sankoff, G., Blondeau, H., & Charity, A. (2001). Individual roles in a real-time change. Montreal (r→r) 1947–1995. In: H. Van de Velde & R. van Hout (Eds.). *'r'-atics: Sociolinguistic, phonetic and phonological characteristics of /r/*, IVLP.
- Scharinger, M., & Lahiri, A. (2010). Height differences in English dialects: Consequences for processing and representation. *Language and Speech*, 53(2), 245–272.
- Scharinger, M., Monahan, P. J., & Idsardi, W. J. (2016). Linguistic category structure influences early auditory processing: Converging evidence from mismatch responses and cortical oscillations. *NeuroImage*, 128, 293–301. <https://doi.org/10.1016/j.neuroimage.2016.01.003>
- Scheer, T. (2014). How diachronic is synchronic grammar? Crazy rules, regularity and naturalness. In: P. Honeybone & J. C. Salmons (Eds.). *The handbook of historical phonology*. Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780199232819.013.003>
- Schwarz, G. (1978). Estimating the dimension of a model. *The Annals of Statistics*, 6, 461–464. <https://doi.org/10.1214/aos/1176344136>
- Scrucca, L., Fop, M., Murphy, T. B., & Raftery, A. E. (2016). mclust 5: Clustering, classification and density estimation using Gaussian finite mixture models. *The R Journal*, 8(1), 205–233. <https://journal.r-project.org/archive/2016-1/scrucca-fop-murphy-etal.pdf>
- Sebregts, K. (2015). *The sociophonetics and phonology of Dutch /r/* (Doctoral dissertation). Universiteit Utrecht. LOT. <https://doi.org/10.1874/306415>
- Shi, T., Kasahara, S., Pongkittiphan, T., Minematsu, N., Saito, D., & Hirose, K. (2015). A measure of phonetic similarity to quantify pronunciation variation by using ASR technology. In: The Scottish Consortium for ICPHS 2015 (Ed.). *Proceedings of the 18th International Congress of Phonetic Sciences (ICPhS XVIII)*. International Phonetic Association.
- Siegel, J. (2010). *Second dialect acquisition*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511777820>

- Sneller, B. (2018). *Mechanisms of phonological change* (Doctoral dissertation). University of Pennsylvania.
- Sonderegger, M., Bane, M., & Graff, P. (2017). The medium-term dynamics of accents on reality television. *Language*, 93, 598–640. <https://doi.org/10.1353/lan.2017.0038>
- Steinberg, J., Truckenbrodt, H., & Jacobsen, T. (2010a). Activation and application of an obligatory phonotactic constraint in German during automatic speech processing is revealed by human event-related potentials. *International Journal of Psychophysiology*, 77, 13–20. <https://doi.org/10.1016/j.ijpsycho.2010.03.011>
- Steinberg, J., Truckenbrodt, H., & Jacobsen, T. (2010b). Preattentive phonotactic processing as indexed by the mismatch negativity. *Journal of Cognitive Neuroscience*, 22, 2174–2185. <https://doi.org/10.1162/jocn.2009.21408>
- Steinberg, J., Truckenbrodt, H., & Jacobsen, T. (2011). Phonotactic constraint violations in German grammar are detected automatically in auditory speech processing: A human event-related potentials study. *Psychophysiology*, 48, 1208–1216. <https://doi.org/10.1111/j.1469-8986.2011.01200.x>
- Stevens, M., & Harrington, J. (2014). The individual and the actuation of sound change. *Loquens*, 1, e003. <https://doi.org/10.3989/loquens.2014.003>
- Stroop, J. (1992). Weg standaardtaal. de nieuwe koers van het Nederlands. *Onze Taal*, 6(9), 179–182.
- Stroop, J. (1998). *Poldernederlands. Waardoor het ABN verdwijnt*. Bert Bakker.
- Sussman, E. S., Chen, S., Sussman-Fort, J., & Dinges, E. (2014). The five myths of MMN: Redefining how to use MMN in basic and clinical research. *Brain Topography*, 27(4), 553–564.
- Tagliamonte, S. A., & Baayen, R. H. (2012). Models, forests, and trees of York English: Was/were variation as a case study for statistical practice. *Language Variation and Change*, 24, 135–178. <https://doi.org/10.1017/S0954394512000129>
- Tamminga, M. (to appear). Leaders of language change: Macro and micro perspectives. In: H. Van de Velde, N. H. Hilton, & R. Knooihuizen (Eds.). *Language variation — European perspectives VIII: Selected papers from the tenth International Conference on Language Variation in Europe (ICLaVE 10), Leeuwarden, June 2019*. John Benjamins Publishing Company.
- Tamminga, M., Ahern, C., & Ecay, A. (2016). Generalized additive mixed models for intraspeaker variation. *Linguistics Vanguard*, 2. <https://doi.org/10.1515/lingvan-2016-0030>
- Timmerman, J. H. (2018). *Ken mèn 't rotte hoe of jenut spel!! Een vergelijking van de orthografische diepte van het Standaardnederlands en het Haagse stadsdialect* (Bachelor's thesis). Leiden University. <https://doi.org/10.1887/65913>

- Trofimovich, P., Collins, L., Cardoso, W., White, J., & Horst, M. (2012). A frequency-based approach to L2 phonological learning: Teacher input and student output in an intensive ESL context. *TESOL Quarterly*, 46, 176–187. <https://doi.org/10.1002/tesq.9>
- Trudgill, P. (1986). *Dialects in contact*. Blackwell.
- Trudgill, P. (1988). Norwich revisited: Recent linguistic changes in an English urban dialect. *English World-wide*, 9, 33–49. <https://doi.org/10.1075/eww.9.1.03tru>
- Trudgill, P. (1999). Norwich: Endogenous and exogenous linguistic change. *Urban voices: Accent studies in the British Isles*, 124–40.
- Van de Velde, H. (1996). *Variatie en verandering in het gesproken Standaard-Nederlands* (Doctoral dissertation). Katholieke Universiteit Nijmegen. <https://doi.org/2066/146159>
- Van de Velde, H., Kissine, M., Tops, E., van der Harst, S., & van Hout, R. (2011). Will Dutch become Flemish? Autonomous developments in Belgian Dutch. *Multilingua*, 3-4, 385–416. <https://doi.org/10.1515/mult.2010.019>
- Van de Velde, H., van Hout, R., & Gerritsen, M. (1997). Watching Dutch change: A real time study of variation and change in standard Dutch pronunciation. *Journal of Sociolinguistics*, 1(3), 361–391.
- Van de Velde, H., & van Hout, R. W. N. M. (2003). Diftongering in het Standaard-Nederlands. In: T. Koole, J. Nortier, & B. Tahitu (Eds.). *Artikelen van de vierde sociolinguïstische conferentie*. Eburon.
- Van Istendael, G. (2008). Plezier en pijn van het Nederlands. *Samen beleid maken in het GO! Onderwijs van de Vlaamse Gemeenschap. Beleidscahier*, 3, 29–33.
- Verhoeven, J. (2005). Belgian Standard Dutch. *Journal of the International Phonetic Association*, 35, 243–247. <https://doi.org/10.1017/S0025100305002173>
- Voeten, C. C. (2015). *The interaction between the segmental and the prosodic phonology in the midst of an on-going sound change: Resolving a contradiction in the synchronic phonology of Dutch* (Master's thesis). Radboud University Nijmegen. <https://theses.ubn.ru.nl/handle/123456789/628>
- Voeten, C. C. (2018). *permutes: Permutation tests for time series data*. R package version 0.1. R package version 0.1. <https://CRAN.R-project.org/package=permutes>
- Voeten, C. C. (2019a). *buildmer: Stepwise elimination and term reordering for mixed-effects regression*. R package version 1.1. R package version 1.1. <https://CRAN.R-project.org/package=buildmer>
- Voeten, C. C. (2019b). *buildmer: Stepwise elimination and term reordering for mixed-effects regression*. R package version 1.4. R package version 1.4. <https://CRAN.R-project.org/package=buildmer>

- Voeten, C. C. (2019c). *permutes: Permutation tests for time series data*. R package version 1.0. R package version 1.0. <https://CRAN.R-project.org/package=permutes>
- Voeten, C. C. (2020). *buildmer: Stepwise elimination and term reordering for mixed-effects regression*. R package version 1.6. R package version 1.6. <https://CRAN.R-project.org/package=buildmer>
- Voeten, C. C. (to appear). Individual differences in the adoption of sound change. *Language and Speech*. <https://doi.org/10.1177/0023830920959753>
- Voeten, C. C., & Levelt, C. C. (2019). ERP responses to regional accent reflect two distinct processes of perceptual compensation. *Frontiers in Neuroscience*, 13, 546. <https://doi.org/10.3389/fnins.2019.00546>
- Voortman, B. (1994). *Regionale variatie in het taalgebruik van notabelen. Een sociolinguïstisch onderzoek in Middelburg, Roermond en Zutphen*. IFOTT.
- Wagenmakers, E.-J. (2007). A practical solution to the pervasive problems of *p* values. *Psychonomic Bulletin & Review*, 14, 779–804. <https://doi.org/10.3758/BF03194105>
- Wagner, S. E. (2008). *Linguistic change and stabilization in the transition from adolescence to adulthood* (Doctoral dissertation). University of Pennsylvania.
- Wagner, S. E. (2012). Age grading in sociolinguistic theory. *Language and Linguistics Compass*, 6, 371–382. <https://doi.org/10.1002/lnc3.343>
- Walker, A. J. (2014). *Crossing oceans with voices and ears: Second dialect acquisition and topic-based shifting in production and perception* (Doctoral dissertation). Ohio State University.
- Walker, M., Szakay, A., & Cox, F. (2019). Can kiwis and koalas as cultural primes induce perceptual bias in Australian English speaking listeners? *Laboratory Phonology: Journal of the Association for Laboratory Phonology*, 10. <https://doi.org/10.5334/labphon.90>
- Wang, W. S.-Y. (1969). Competing changes as a cause of residue. *Language*, 9–25. <https://doi.org/10.2307/411748>
- Wang, W. S.-Y., & Fillmore, C. J. (1961). Intrinsic cues and consonant perception. *Journal of Speech and Hearing Research*, 4, 130–136. <https://doi.org/10.1044/jshr.0402.130>
- Watt, D. J. L. (2000). Phonetic parallels between the close-mid vowels of Tyneside English: Are they internally or externally motivated? *Language Variation and Change*, 12, 69–101. <https://doi.org/10.1017/S0954394500121040>
- Weinreich, U., Labov, W., & Herzog, M. I. (1968). Empirical foundations for a theory of language change. In: W. Lehmann & Y. Malkiel (Eds.). *Directions for historical linguistics*. University of Texas Press.

- Wheeldon, L. R., & Levelt, W. J. M. (1995). Monitoring the time course of phonological encoding. *Journal of Memory and Language*, 34, 311–334. <https://doi.org/10.1006/jmla.1995.1014>
- Witteman, M. J., Bardhan, N. P., Weber, A., & McQueen, J. M. (2015). Automaticity and stability of adaptation to a foreign-accented speaker. *Language and Speech*, 58, 168–189. <https://doi.org/10.1177/0023830914528102>
- Witteman, M. J., Weber, A., & McQueen, J. M. (2014). Tolerance for inconsistency in foreign-accented speech. *Psychonomic bulletin & review*, 21, 512–519. <https://doi.org/10.3758/s13423-013-0519-8>
- Wood, S. N. (2017). *Generalized additive models: An introduction with R* (2nd ed.). Chapman & Hall/CRC.
- Yaeger-Dror, M. (1994). Phonetic evidence for sound change in Quebec French. *Phonological structure and phonetic form: Papers in laboratory phonology*, 3, 267–292. <https://doi.org/10.1017/CBO9780511659461.016>
- Yang, C. (2009). Population structure and language change. *Ms.*
- Young, S., Evermann, G., Gales, M., Hain, T., Kershaw, D., Liu, X., Moore, G., Odell, J., Ollason, D., Povey, D. et al. (2002). *The HTK book*. Cambridge University Engineering Department.
- Yu, A. C. L. (2010). Perceptual compensation is correlated with individuals' "autistic" traits: Implications for models of sound change. *PLoS One*, 5, e11950. <https://doi.org/10.1371/journal.pone.0011950>
- Yu, A. C. L. (2013). Individual differences in socio-cognitive processing and the actuation of sound change. In: A. C. L. Yu (Ed.). *Origins of sound change: Approaches to phonologization*. Oxford University Press.
- Zellou, G., Dahan, D., & Embick, D. (2017). Imitation of coarticulatory vowel nasality across words and time. *Language, Cognition and Neuroscience*, 32, 776–791. <https://doi.org/10.1080/23273798.2016.1275710>
- Ziliak, Z. L. (2012). *The relationship between perception and production in adult acquisition of a new dialect's phonetic system* (Doctoral dissertation). University of Florida.
- Zwaardemaker, H., & Eijkman, C. L. P. H. (1924). *Leerboek der Phonetiek. Inzonderheid met betrekking tot het Standaard-Nederlands*. De erven F. Bohn.