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Dialogue management and stance coordination in conversation

The case of agreement and disagreement

CARITA PARADIS, LUND UNIVERSITY







This talk has two parts

Interactive alignment across speaker turns that involve agreement and disagreement.

But, before that London–Lund Corpus 2.



Everyday face-to-face conversation



Photo: Cottonbro



Photo: Gustavo Fring



Photo: Cottonbro

Starting point

Language use is social
(inter)action performed by
humans to re-contextualize,
communicate and negotiate
experiences and stances.



Anastaiya Gepp

What do we do with language?

- discuss, argue, fight, banter, chit-chat, gossip, natter, tête-a-tête talk, argue, converse

it involves

perception, cognition, languages and culture – and is multimodal



Budgeron Bach



Cottonbro



Brett Sayles

both in production and uptake

Everyday conversation is like

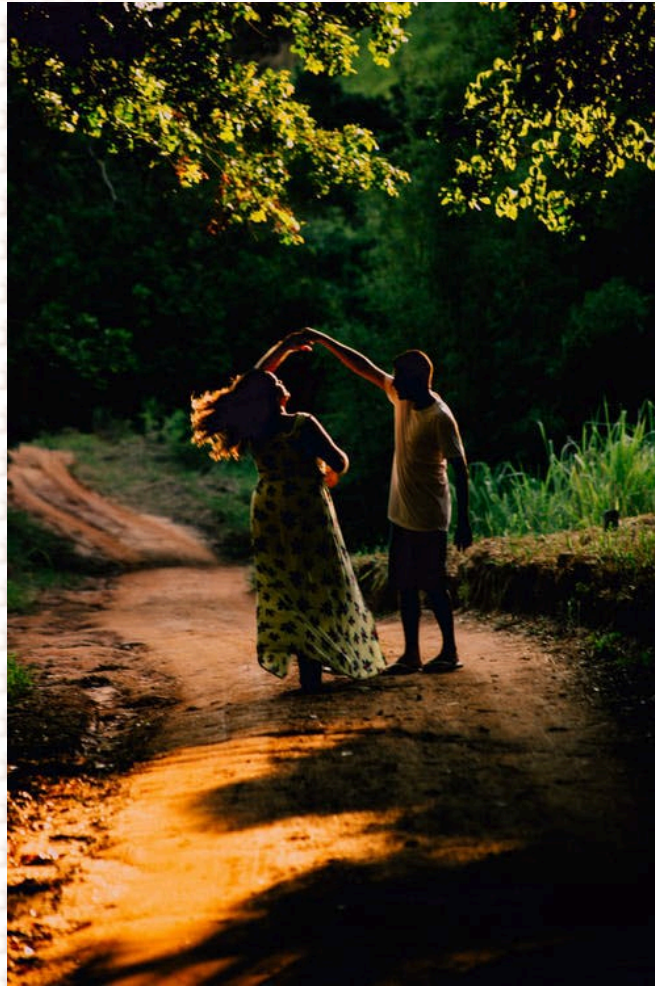


Photo: Edward Eyer



Photo: Tim Gouw



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Photo: Vera Arsic



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Conversation

- is social interaction performed by speakers
- proceeds in a turn-taking fashion
- requires joint attention and action perception
- includes both production and comprehension
- meanings are constantly negotiated

Brennan & Clark, 1996; Clark, 1996; Du Bois & Giora, 2014; Fusaroli & Tylén, 2012; Gibbs & Clark, 2012.; Linell, 2009; Pöldvere, & Paradis, 2019, 2020; Pöldvere et al., 2022; Rasenberg, Özyürek & Dingemanse, 2020

Conversations

- are performed by speakers through *meetings of minds*.

(Gärdenfors, 2014)



The meetings-of-minds metaphor

highlights the dynamic and emergent nature of interaction with meeting-points at which interlocutors have reached a sufficient degree of mutual understanding.

Gärdenfors, 2014; Paradis, 2015; Tomasello, 2010

Importantly, this also includes negotiation and coordination of stances.

Pöldvere, Johansson & Paradis (2021c)

Meetings of minds



Production data

Data collected in the wild for ecological reasons

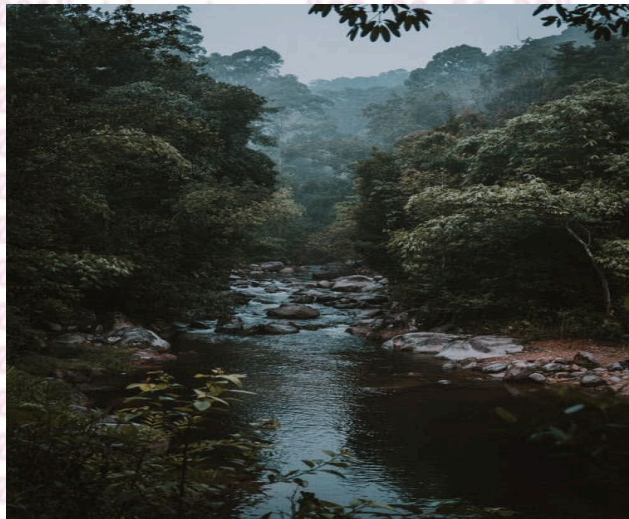


Photo: Deva Darshan

2014

was the year when we decided to compile a new spoken corpus The London-Lund Corpus 2 (LLC-2)



LONDON-LUND CORPUS

OF SPOKEN ENGLISH

The LLC-2 team



Nele Põldvere

Carita Paradis

Victoria Johansson

In particular this very special person



Nele Põldvere

The spoken data situation in 2014

- The LLC-1 (50s – 80s)
- The Santa Barbara Corpus (80s)
- ICE (90s)
- The British National Corpus (1994)



**BRITISH
NATIONAL
CORPUS**
2014

Prerequisites for LLC-2

- Easily accessible for academic use
- Suitable for research on contemporary speech
- Accompanied by text aligned sound files
- Principled diachronic comparisons with LLC-1

LLC-1

LLC-2



1950s–1980s

2014–2019

ca. 50 years

- Spoken British English
- Adult educated speakers
- ~500,000 words
- Dialogue & monologue

LLC-2 design

Text categories	Texts	Words
Face-to-face conversation	47	235,000
Phone/Skype conversation	12	60,000
Broadcast discussions and interviews	12	60,000
Spontaneous commentary	12	60,000
Parliamentary language	4	20,000
Legal language	4	20,000
Prepared speech	9	45,000
	100	500,000

Nele recorded

- Face-to-face conversation, mobile phone/Skype conversation, university lectures
- University College London, Lancaster University, Lund University
- Non-surreptitious (compared to LLC-1)
- Consent forms & questionnaires

HEY YOU!

Are you a native speaker of British English?
Do you think spoken British English has changed a lot over the last 50 years?

HELP US FIND OUT!

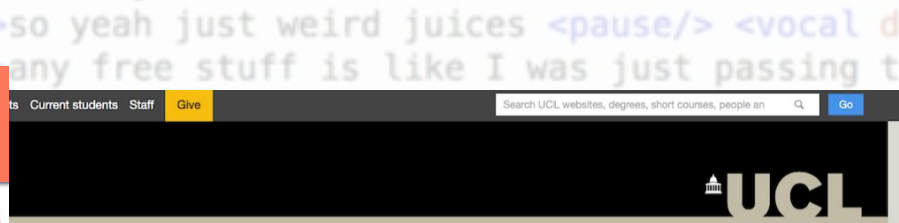
We are interested in recording conversations between adult native speakers of British English.

If you wish to participate and/or receive more information about the project, please send an email to Nele Pöldvere at nele.poldvere.15@alumni.ucl.ac.uk.

THANK YOU!



Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk	Recording of conversation nele.poldvere.15@alumni.ucl.ac.uk
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UCL Home > UCL News > How has spoken English changed over the last 50 years?

How has spoken English changed over the last 50 years?

3 October 2017

Help needed with recording native speakers for the London-Lund Corpus 2 Would you like to be part of a major study into how spoken English has changed over the last half century? The London-Lund Corpus was the world's first collection of spoken language texts, and recordings for the corpus were made right here at University College London.

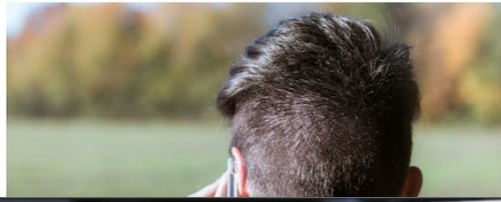
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The decline in smoking in England amounts to nearly 1.5 billion fewer cigarettes smoked each year, according to a new analysis led by @DrSarahEJackson @UCL_EHC, drawing from cigarettes sales & the Smoking Toolkit Study led by Prof @robertwest theguardian.com/society/2019/a...

Smokers in England light up 1.5bn fewer ciga...



Call Recorder for Skype

Other recordings

- Rest of the text categories
- Podcasts, radio stations, YouTube, learned societies, churches, Houses of Parliament, Supreme Court, Talks at Google, political parties, etc.
- Rigorous copyright clearance process

The speakers

- Approximately 350 unique speakers
- Extensive metadata for Nele's recordings
 - Questionnaire: age, gender, occupation, education, (foreign) language use, place(s) of residence, accent
- More limited for Other recordings

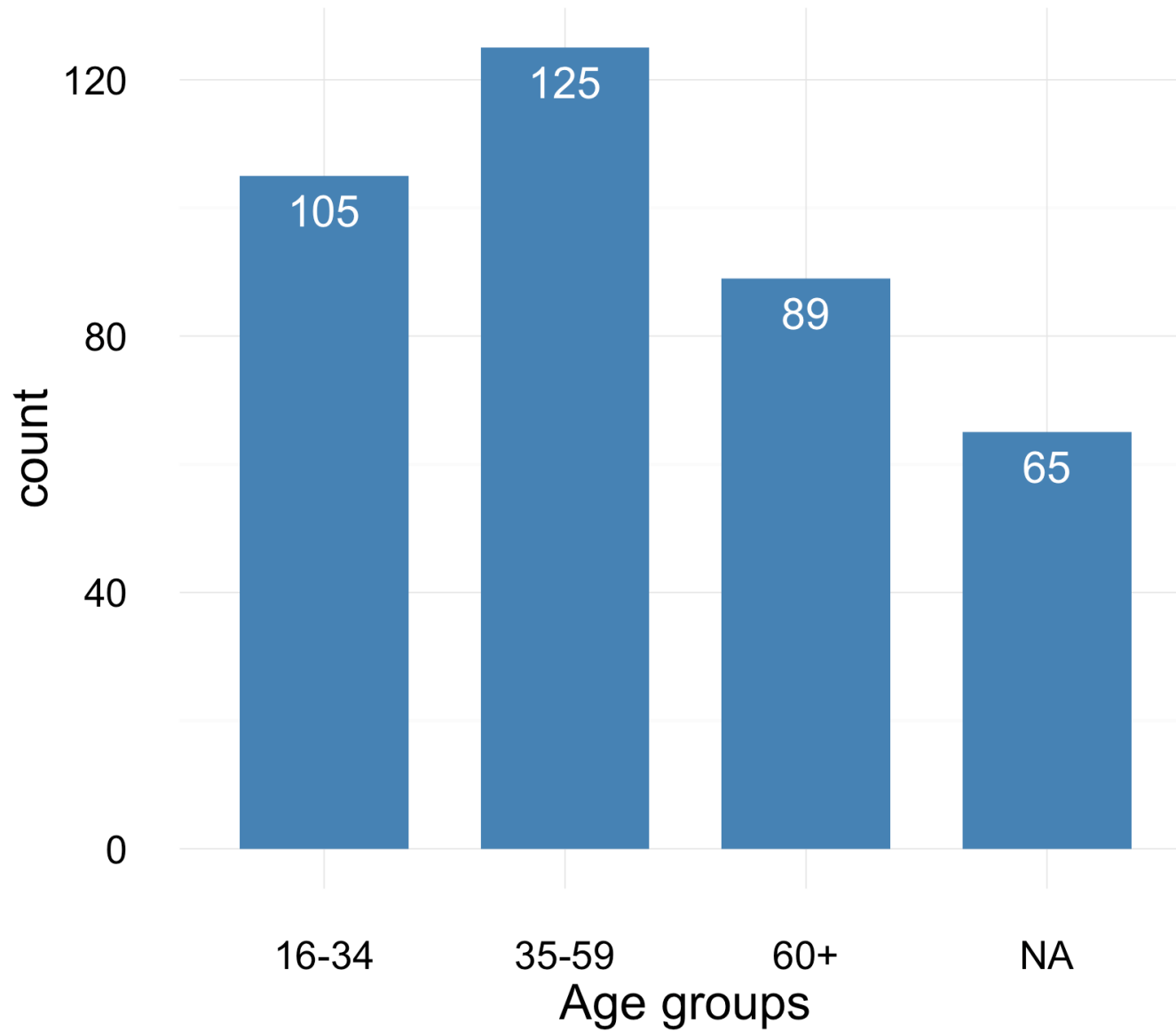
The speakers

- Approximately 350 unique speakers
- A lot of metadata for Nele recordings
- Questionnaire: **age, gender, occupation**, education, (foreign) language use, place(s) of residence, accent
- More limited for Other recordings

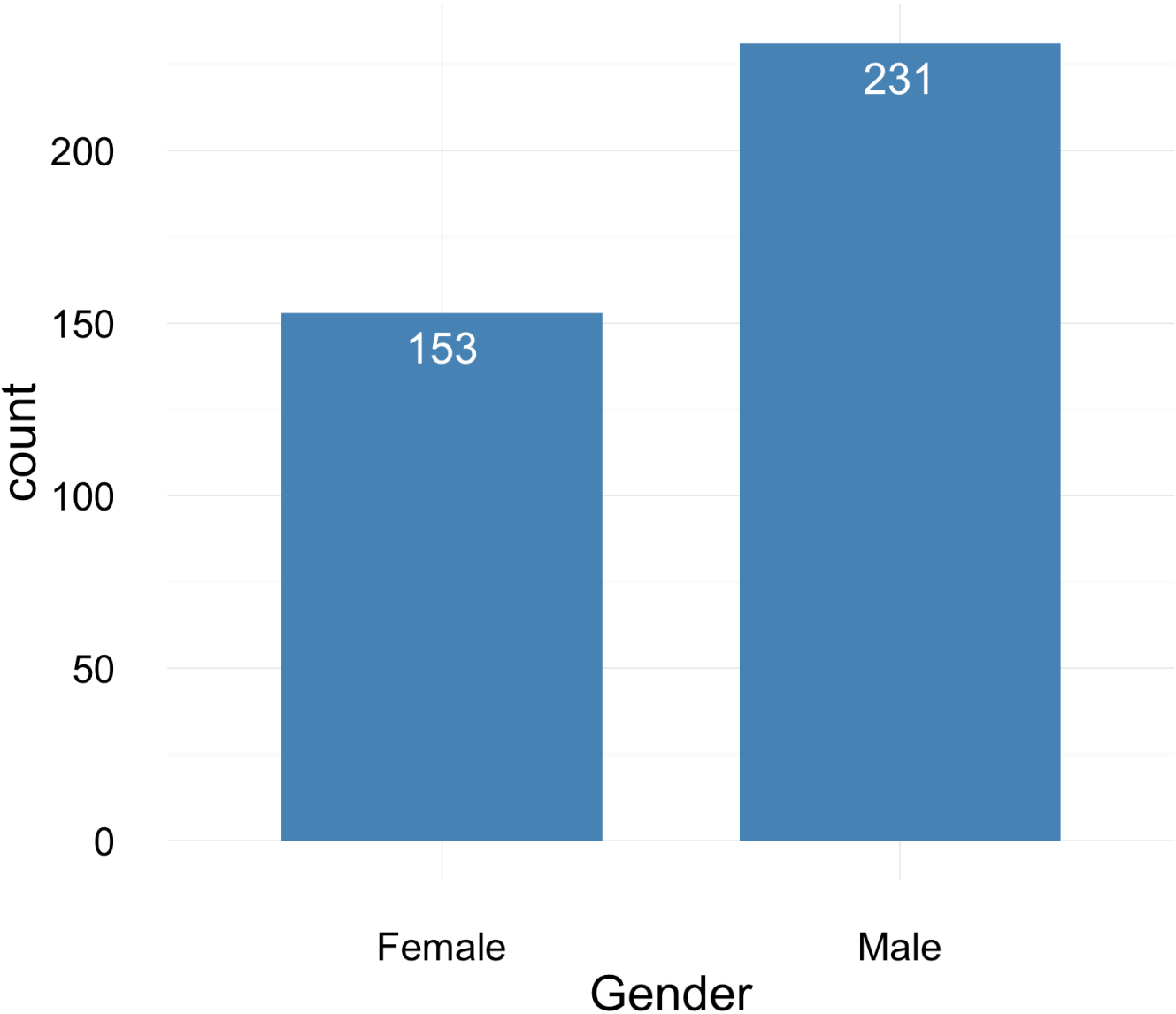
LLC-1



Age distribution in LLC-2



Gender distribution in LLC-2



LLC-2 transcription and markup

- Orthographic
- Based on XML (e.g., `<pause/>`, `<anon>Mary</anon>`)
- Sound files aligned with the time-stamped transcriptions (not LLC-1)

<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal d
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing t
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>
<turn n="9" who="S001" timestamp="00:00:24.11">yes <vocal desc="laugh"> I'm interested now
<turn n="10" who="S002" timestamp="00:00:29.10">Russell Square is it <overlap pos="start"

Audio-only source.

00:00:00.00

00:00:00.00 00:54:59.09

Play Rate 1.0x

Volume

L R

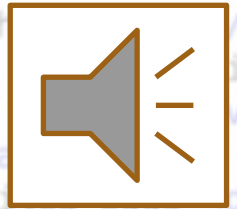
<S001> <00:00:00.17> it's like some fitness place
<S002> <00:00:02.18> oh
<S001> <00:00:02.25> and some woman was just handing them out <p/> but it looks alright they <[>do like</>
<S002> <00:00:06.00> <[>xi</> is it all weird juices
<S001> <00:00:07.24> no they do like banana smoothies and stuff
<S002> <00:00:10.19> so yeah just weird juices <p/> <v desc="laugh"/> well this could be nice
<S001> <00:00:15.03> any free stuff is like I was just passing the woman with the fliers <p/> and everyone was passing her by <p/> and then I saw the flier said free and I was like <p/>
<S002> <00:00:23.09> give <p/>
<S001> <00:00:24.11> yes <v desc="laugh"/> I'm interested now <p/>
<S002> <00:00:29.10> Russell Square is it <[>ah</> ah do you wanna go now
<S001> <00:00:30.18> <[>yeah</> <p/>
<S001> <00:00:34.02> <[>no <v desc="laugh"/></>
<S002> <00:00:34.02> <[>no <v desc="laugh"/></> <p/>
<S001> <00:00:38.26> so now I have two free drinks I have the one from Eat which I haven't used yet <p/>
<S002> <00:00:44.03> and the Waitrose one
<S001> <00:00:45.03> I haven't <[>got the Waitrose </></>
<S002> <00:00:45.13> <[>oh if if you buy one</> <p/>
<S001> <00:00:47.19> <v desc="laugh"/>
<S002> <00:00:50.11> I'll catch up <p/>
<S001> <00:00:51.22> and <p/> this one <p/>
<S002> <00:00:55.20> what do you have on tomorrow <p/> you said you were really busy
<S001> <00:00:58.18> yes <p/> I have <p/> I have Icelandic <p/> and then Spanish <p/> so I have grammar for four hours <p/>
<S002> <00:01:10.30> <[>ugh</>
<S001> <00:01:12.02> <[>from nine till one</>
<S002> <00:01:15.16> you're gonna have to have a big lunch <p/> are you gonna have time for breakfast with her <p/>
<S001> <00:01:19.17> I don't know <p/>
<S002> <00:01:20.25> cause you need to eat before that
<S001> <00:01:22.03> I missed it last time because I <[>was</> late
<S002> <00:01:23.24> <[>what</>
<S002> <00:01:24.15> you missed it this morning
<S001> <00:01:25.21> no <p/> I missed it last <[>time </></>
<S002> <00:01:27.03> <[>oh last last</> time you didn't okay <p/>
<S001> <00:01:31.10> but then I ended up meeting her anyway
<S002> <00:01:33.11> yeah <p/> you don't have any like biscuits do you have any biscuits left
<S001> <00:01:39.02> yeah I have three shortbread biscuits <v desc="laugh"/> left <p/> I ate all the rest of them
<S002> <00:01:43.10> aw there's your breakfast <p/> have <p/> shortbread with Nutella and peanut butter and stuff
<S001> <00:01:48.29> for lunch I made <p/> boiled eggs <[>eventually</>
<S002> <00:01:52.01> <[>mhm</> <p/> how many
<S001> <00:01:54.11> two <p/>
<S002> <00:01:55.08> mm

<turn n="36" who="S002" timestamp="00:01:43.10">aw there's your breakfast <pause/> have <p/>
<turn n="37" who="S001" timestamp="00:01:48.29">for lunch I made <pause/> boiled eggs <ove
<turn n="38" who="S002" timestamp="00:01:52.01"><overlap pos="start" n="8"/> mhm <overlap

<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal desc="laugh"/> </turn>
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing t
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>

<turn n="1" who="S001" timestamp="00:00:00.17">it's like some fitness place</turn>
<turn n="2" who="S002" timestamp="00:00:02.18">oh</turn>
<turn n="3" who="S001" timestamp="00:00:02.25">and some woman was just handing them out <pause/> but it looks alright they <overlap pos="start" n="1"/> do like <overlap pos="end" n="1"/>
<turn n="4" who="S002" timestamp="00:00:06.00"><overlap pos="start" n="1"/> <trunc>i</trunc> <overlap pos="end" n="1"/> is it all weird juices</turn>
<turn n="5" who="S001" timestamp="00:00:07.24">no they do like banana smoothies and stuff</turn>
<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal desc="laugh"/> well this could be nice</turn>
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing the woman with the fliers <pause/> and everyone was passing her by <pause/>
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>
<turn n="9" who="S001" timestamp="00:00:24.11">yes <vocal desc="laugh"> I'm interested now <pause/></turn>
<turn n="10" who="S002" timestamp="00:00:29.10">Russell Square is it <overlap pos="start" n="2"/> ah <overlap pos="end" n="2"/> ah do you wanna go now</turn>
<turn n="11" who="S001" timestamp="00:00:30.18"><overlap pos="start" n="2"/> yeah <overlap pos="end" n="2"/> <pause/></turn>
<turn n="12" who="S001" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/> <overlap pos="end" n="3"/></turn>
<turn n="13" who="S002" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/> <overlap pos="end" n="3"/> <pause/></turn>
<turn n="14" who="S001" timestamp="00:00:38.26">so now I have two free drinks I have the one from Eat which I haven't used yet <pause/></turn>
<turn n="15" who="S002" timestamp="00:00:44.03">and the Waitrose one</turn>
<turn n="16" who="S001" timestamp="00:00:45.03">I haven't <overlap pos="start" n="4"/> got the Waitrose <unclear/> <overlap pos="end" n="4"/></turn>
<turn n="17" who="S002" timestamp="00:00:45.13"><overlap pos="start" n="4"/> oh if if if you buy one <overlap pos="end" n="4"/> <pause/></turn>
<turn n="18" who="S001" timestamp="00:00:47.19"><vocal desc="laugh"/></turn>
<turn n="19" who="S002" timestamp="00:00:50.11">I'll catch up <pause/></turn>
<turn n="20" who="S001" timestamp="00:00:51.22">and <pause/> this one <pause/></turn>
<turn n="21" who="S002" timestamp="00:00:55.20">what do you have on tomorrow <pause/> you said you were really busy</turn>
<turn n="22" who="S001" timestamp="00:00:58.18">yes <pause/> I have <pause/> I have Icelandic <pause/> and then Spanish <pause/> so I have grammar for four hours <pa
<turn n="23" who="S002" timestamp="00:01:11.00"><overlap pos="start" n="5"/> ugh <overlap pos="end" n="5"/></turn>
<turn n="24" who="S001" timestamp="00:01:12.02"><overlap pos="start" n="5"/> from nine till one <overlap pos="end" n="5"/></turn>
<turn n="25" who="S002" timestamp="00:01:15.16">you're gonna have to have a big lunch <pause/> are you gonna have time for breakfast with her <pause/></turn>
<turn n="26" who="S001" timestamp="00:01:19.17">I don't know <pause/></turn>
<turn n="27" who="S002" timestamp="00:01:20.25">cause you need to eat before that</turn>
<turn n="28" who="S001" timestamp="00:01:22.03">I missed it last time because I <overlap pos="start" n="6"/> was <overlap pos="end" n="6"/> late</turn>
<turn n="29" who="S002" timestamp="00:01:23.24"><overlap pos="start" n="6"/> what <overlap pos="end" n="6"/></turn>
<turn n="30" who="S002" timestamp="00:01:24.15">you missed it this morning</turn>
<turn n="31" who="S001" timestamp="00:01:25.21">no <pause/> I missed it last <overlap pos="start" n="7"/> time <unclear/> <overlap pos="end" n="7"/></turn>
<turn n="32" who="S002" timestamp="00:01:27.03"><overlap pos="start" n="7"/> oh last last <overlap pos="end" n="7"/> time you didn't okay <pause/></turn>
<turn n="33" who="S001" timestamp="00:01:31.10">but then I ended up meeting her anyway</turn>
<turn n="34" who="S002" timestamp="00:01:33.11">yeah <pause/> you don't have any like biscuits do you have any biscuits left</turn>
<turn n="35" who="S001" timestamp="00:01:39.02">yeah I have three shortbread biscuits <vocal desc="laugh"/> left <pause/> I ate all the rest of them</turn>
<turn n="36" who="S002" timestamp="00:01:43.10">aw there's your breakfast <pause/> have <pause/> shortbread with Nutella and peanut butter and stuff</turn>
<turn n="37" who="S001" timestamp="00:01:48.29">for lunch I made <pause/> boiled eggs <overlap pos="start" n="8"/> eventually <overlap pos="end" n="8"/></turn>
<turn n="38" who="S002" timestamp="00:01:52.01"><overlap pos="start" n="8"/> mhm <overlap pos="end" n="8"/> <pause/> how many</turn>
<turn n="39" who="S001" timestamp="00:01:54.11">two <pause/></turn>
<turn n="40" who="S002" timestamp="00:01:55.08">mm</turn>
<turn n="41" who="S001" timestamp="00:01:56.09">I had to go down to the to the kitchen on the next floor down</turn>
<turn n="42" who="S002" timestamp="00:02:00.27">how was it <pause/> was it like amazing</turn>
<turn n="43" who="S001" timestamp="00:02:03.15">well the stuff worked <overlap pos="start" n="9"/> so <overlap pos="end" n="9"/> that was a change</turn>

<turn n="turn number" who="speaker ID"
timestamp="place in sound file">transcription</turn>



Anonymisation in audio files

- Anonymisation in transcriptions

- Speaker ID

- `<anon>` tags (e.g., Jennifer -> `<anon>Kimberly</anon>`)

- Considerably more difficult in audio files

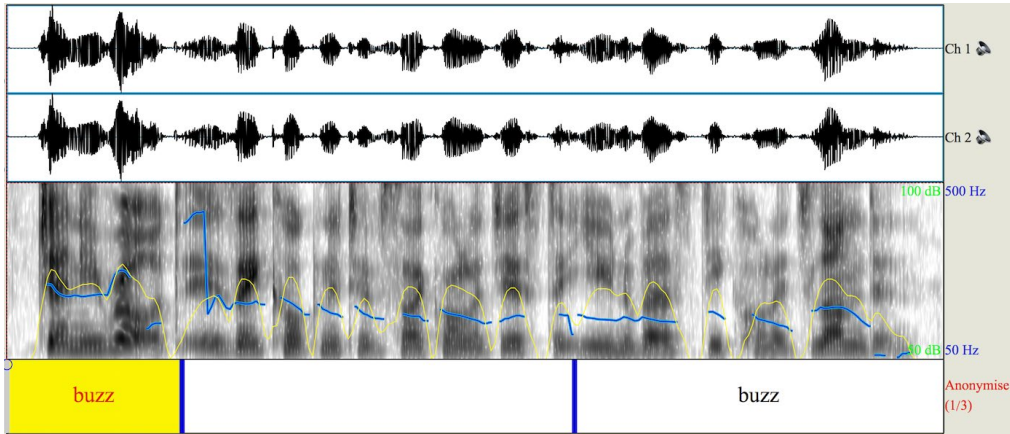
- Spoken British National Corpus 1994: muted the speech signal



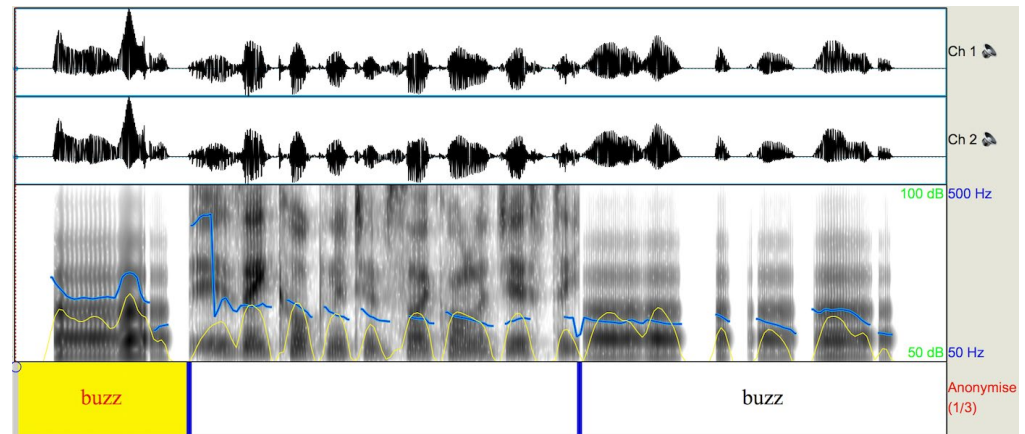
- removes important prosodic information

- LLC-2: Praat script (Hirst, 2013)

- The portion of the speech signal marked with 'buzz' is replaced by a *hum* sound, which retains the pitch and intensity envelope of the original



Jenni Rodd is a cognitive psychologist at University College London



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<turn n="6" who=">
<turn n="7" who=">
<turn n="8" who=">
<turn n="9" who=">
<turn n="10" who=">
<turn n="11" who=">
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B 436 ☆«||NÒ||»☆
> A 437 ||not the TRÁIN||
B 438 «well ||NÒ||» 439 if ||I catch the Δone TWENTY-ΔEIGHT {f
VIC||TÓRIA||} 440 ||that ☆gets me in at about . Δhalf past T
I ||get to
A 442 ☆«and you'll ||then you'll ||get your . »☆
> B 441 the ☆BÁNK☆ {you ||SÈE||} 442
A 443 ☆||YÈS||☆ . 444 ||get to «the» BÁNK 445 ||YÈS||
B 446 «let me» ||tell you a STÓRY - - - 447 a ||girl went into
SHŌP 448 and ||asked FŌR . 449 ||CONTRACÈPTIVE ▷tabl
he said» ||well I've got . all KÍND 451 and . ||all PRÍCES
ΔWÁNT 453 «she said well» ||what have you ΔGŌT 454
||got some ΔHÉRE - 455 ||packet here of . ΔTÉN 456 for ||
457 «||oh well are» . are they ||all ΔRÍGH 458 «he said»
SUPPÓSE ▷so 459 «I mean» do you ||GUARAN"ΔTÈE them
NŌ 461 I ||don't GUARAN"ΔTÈE them 462 I mean - «you
- - 463 «she said» ||WÈLL . 464 «I [d ai]» they're ||no go
Δcan't GUARAN"ΔTÈE them 465 «||not RÉALLY||» 466 I sup
you've Δgot them all ΔPRÍCES 467 I sup||pose if I [ə] 'get
ones 468 ||they'll be . ΔSÁFER 469 he said ||WÈLL 470
THÁT 471 he said I've ||got some Δhere [æ:] at ten for a
472 she said ||WÈLL 473 «that seems pretty» EX||PÈNSIVE
all ΔRÍGH 474 I don't MÍND 475 [ə] do you ||guarantee TH
||NŌ 477 I ||can't guarantee Δ{THÈSE} ÊITHER 478 I [ə]
RÍGH 479 but I ||wouldn't GUARAN"ΔTÈE them - 480 «h
of fact the Δonly ones I "ΔCÁN GUARANTÈE 481 and I ca

ces <ause/> <vocal d
I was just passing t
> I'm interested now
<overlap pos="start"
n="2"/> yeah <overla
n="3"/> no <vocal des
n="3"/> no <vocal des
e drinks I have the o
</turn>
s="start" n="4"/>got
n="4"/>oh if if if yo
</turn>
</turn>
<pause/></turn>
omorrow <pause/> you
<pause/> I have Icelan
n="5"/> ugh <overlap
n="5"> from nine till
have a big lunch <pa
</turn>
before that</turn>
because I <overlap
n="6"/> what <overlap
rning</turn>
it last <overlap pos=
n="7"/> oh last last
meeting her anyway</tu
't have any like bisc
rtbread biscuits <voc
fast <pause/> have <p
se/> boiled eggs <ove
n="8"/> mhm <overlap

LLC-1

A Corpus of English Conversation

EDITED BY

JAN SVARTVIK

RANDOLPH QUIRK



Launch symposium in 2019



Jan Svartvik Launch symposium in 2019



Open Access

- Released in 2020
- Lund University Humanities Lab's corpus server



<https://corpora.humlab.lu.se>



- Metadata
- Corpus manual
- End User Licence agreement (to obtain password)
- XML files
- Corresponding anonymized sound files

Methodological publications

- Challenges of releasing audio material for spoken data: The case of the London–Lund Corpus 2
- On the London–Lund Corpus 2: Design, challenges and innovations
- A guide to the London–Lund Corpus 2 of spoken British English.

Methodological publications

PÖLDVERE | JOHANSSON | PARADIS

A guide to the London-Lund Corpus 2 of spoken British English

00

```
timestamp="00:00:27.92" who="S014">big elephant <overlap pos="start" n="91"/><pa
timestamp="00:00:28.05" who="S015"><overlap pos="start" n="91"/>there you go <pa
timestamp="00:00:31.99" who="S014"><overlap pos="start" n="92"/>so it can't be a
timestamp="00:00:36.99" who="S015"><overlap pos="start" n="93"/>I would say not
timestamp="00:00:42.03" who="S014">yeah but they're still mammothy <pause/><tu
timestamp="00:00:44.12" who="S015">do they <overlap pos="start" n="94"/>yes-over
timestamp="00:00:45.05" who="S014"><overlap pos="start" n="94"/>just<overlap pos
timestamp="00:00:46.10" who="S015">they are</turn>
timestamp="00:00:46.25" who="S014">surely</turn>
timestamp="00:00:47.22" who="S015">just think if they'd survived another two tho
timestamp="00:00:52.11" who="S014">or <pause/> they would be recently extinct <
timestamp="00:00:56.09" who="S015"><overlap pos="start" n="95"/>one of the two i
timestamp="00:00:59.25" who="S015">killed by invading dogs <overlap pos="start"
timestamp="00:00:52.15" who="S014"><overlap pos="start" n="96"/>yeah<overlap pos
timestamp="00:00:53.14" who="S015"><overlap pos="start" n="97"/>cats<overlap pos
timestamp="00:00:54.02" who="S014"><overlap pos="start" n="98"/>cats cats got th
```

A guide to the London-Lund Corpus 2 of spoken British English

NELE PÖLDVERE | VICTORIA JOHANSSON | CARITA PARADIS

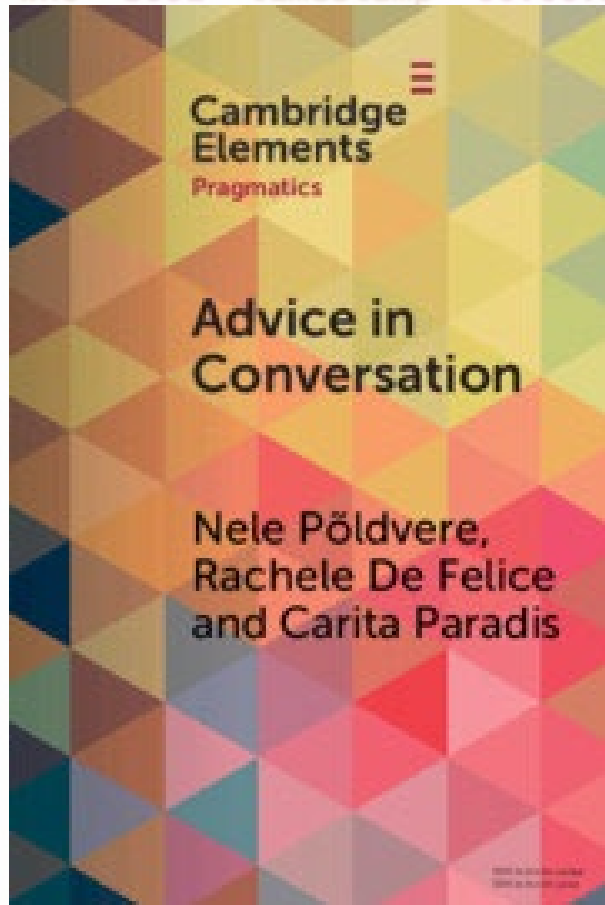
```
timestamp="00:00:20.19" who="S015">yeah <overlap pos="start" n="102"/>how's that
timestamp="00:00:21.03" who="S014"><overlap pos="start" n="102"/>or genetically-
timestamp="00:00:23.27" who="S014"><overlap pos="start" n="103"/>well they've go
timestamp="00:00:25.12" who="S015"><overlap pos="start" n="104"/>so that was lik
timestamp="00:00:28.02" who="S014">ninety <trunc>f</trunc> two</turn>
timestamp="00:00:31.01" who="S015">you really actually know this but I think you
timestamp="00:00:37.12" who="S014"><overlap pos="start" n="105"/><vocal desc="c
timestamp="00:00:46.09" who="S014">for real</turn>
timestamp="00:00:46.26" who="S015">for real <pause/> yeah <overlap pos="start" n
timestamp="00:00:47.26" who="S014"><overlap pos="start" n="106"/><anon>Kimberly-
timestamp="00:00:51.12" who="S014">yeah</turn>
timestamp="00:00:51.25" who="S015">not to make pets I don't think no <overlap po
timestamp="00:00:53.18" who="S014"><overlap pos="start" n="107"/>or<overlap pos
timestamp="00:00:54.15" who="S015"><overlap pos="start" n="108"/><vocal desc="la
timestamp="00:00:54.04" who="S014"><overlap pos="start" n="109"/><vocal desc="la
timestamp="00:10:01.04" who="S015">one <overlap pos="start" n="110"/>assumes it
timestamp="00:10:01.14" who="S014"><overlap pos="start" n="110"/>yeah<overlap po
timestamp="00:10:03.25" who="S014"><overlap pos="start" n="111"/><vocal desc="c
timestamp="00:10:06.25" who="S014"><overlap pos="start" n="112"/>didn't <overla
timestamp="00:10:08.25" who="S015"><overlap pos="start" n="113"/>she <overlap pos=
timestamp="00:10:10.26" who="S015">she might <ve/></turn>
timestamp="00:10:11.18" who="S014">I'm pretty sure</turn>
timestamp="00:10:12.07" who="S015">I don't know how <oc>clear would</unclear> the
timestamp="00:10:14.18" who="S014"><overlap pos="start" n="114"/>but <bes> but</
timestamp="00:10:14.24" who="S015">so <overlap pos="start" n="115"/>you think s
timestamp="00:10:19.06" who="S014"><overlap pos="start" n="115"/>it can be way bet
timestamp="00:10:22.09" who="S014">surely</turn>
timestamp="00:10:22.15" who="S015">it probably is</turn>
timestamp="00:10:23.06" who="S014">I bet it is <pause/></turn>
timestamp="00:10:25.02" who="S015">nm</turn>
timestamp="00:10:25.13" who="S014">we know way more about genomes and <off> <pa
timestamp="00:10:27.24" who="S015">still a long way from <far> <pa/><over
```

The guide to the London-Lund Corpus 2 (forthcoming 2023; Lund Studies in English)

Other topics

- The reactive *what*-x construction in spoken dialogue.
- Motivations and mechanisms for the development of the reactive *what*-x construction in spoken dialogue
- Resonance in dialogue: The interplay between intersubjective motivations and cognitive facilitation.
- *All*-cleft constructions in the London–Lund Corpora of spoken English: Empirical and methodological perspectives

Other topics



Advice in conversation (2022)

Our research objectives

Language science orientation

- Meaning-making in spoken language
- Realizations of meanings through speech

Psychological orientation

- Human behaviour and spoken communication
- Language processing (production and uptake)

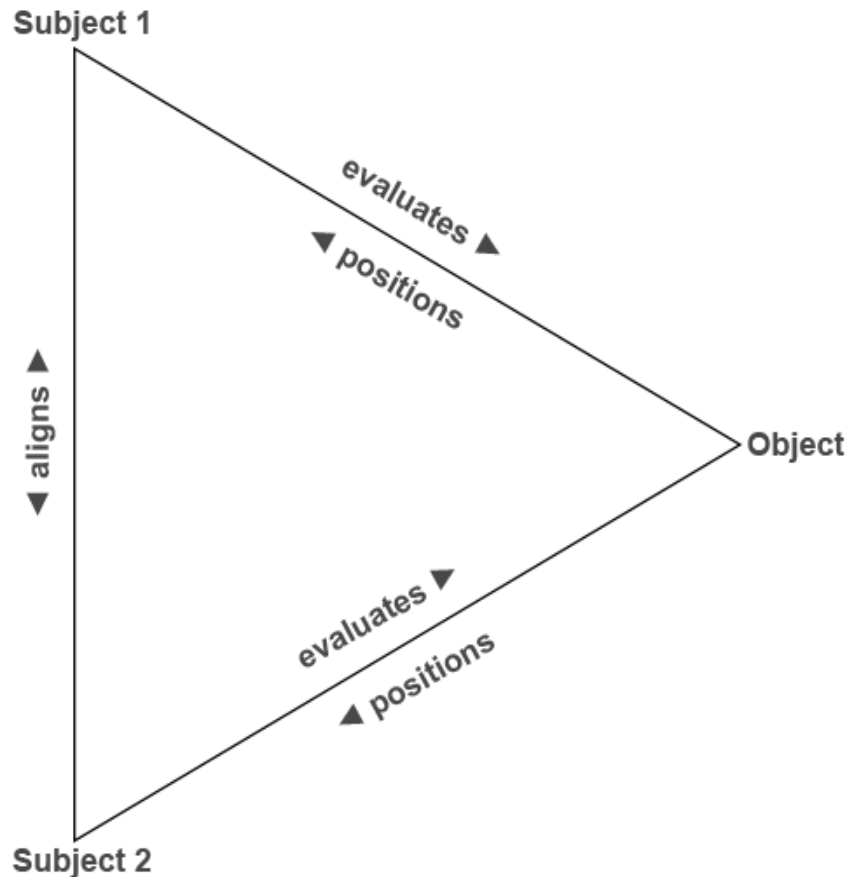
Interactive alignment through resonance in face-to-face conversation

What is it and why do we do it?

Pöldvere, Johansson, & Paradis 2021c



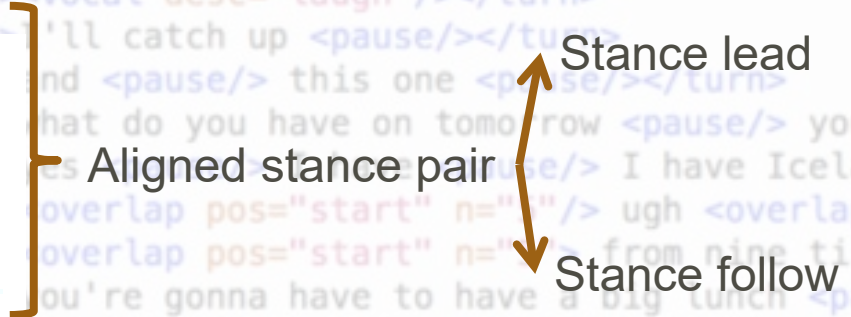
Stance-taking in dialogue



Re-use in dialogue a la Du Bois

(A Tree's Life SBC007: 581.32-585.99)

1 ALICE; I don't know if she'd do it.
2 (0.6)
3 MARY; I don't know if she would either.



<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal desc="laugh"/> I'm interested now
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing t
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>
<turn n="9" who="S001" timestamp="00:00:24.11">yes <vocal desc="laugh"> I'm interested now
<turn n="10" who="S002" timestamp="00:00:29.10">Russell Square is it <overlap pos="start" n="2"/> yeah <overlap pos="start" n="3"/>
<turn n="11" who="S001" timestamp="00:00:33.08"><overlap pos="start" n="3"/> no <vocal desc="laugh"/>
<turn n="12" who="S001" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/>
<turn n="13" who="S002" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/>
<turn n="14" who="S001" timestamp="00:00:38.26">so now I have two free drinks I have the o
<turn n="15" who="S002" timestamp="00:00:44.03">and the Waitrose one</turn>
<turn n="16" who="S001" timestamp="00:00:45.03">I haven't <overlap pos="start" n="4"/>got
<turn n="17" who="S002" timestamp="00:00:45.13"><overlap pos="start" n="4"/>oh if if if yo
<turn n="18" who="S001" timestamp="00:00:47.19"><vocal desc="laugh"/></turn>
<turn n="19" who="S002" timestamp="00:00:50.11">'ll catch up <pause/></turn>
<turn n="20" who="S001" timestamp="00:00:50.11">nd <pause/> this one <pause/></turn>
<turn n="21" who="S002" timestamp="00:00:50.11">hat do you have on tomorrow <pause/> you
<turn n="22" who="S001" timestamp="00:00:50.11"><overlap pos="start" n="5"/> I have Icelan
<turn n="23" who="S002" timestamp="00:00:50.11"><overlap pos="start" n="5"/> ugh <overlap pos="start" n="6"/>
<turn n="24" who="S001" timestamp="00:00:50.11"><overlap pos="start" n="6"/> from nine till
<turn n="25" who="S002" timestamp="00:00:50.11">ou're gonna have to have a big lunch <pause/>
<turn n="26" who="S001" timestamp="00:01:19.17">I don't know <pause/></turn>
<turn n="27" who="S002" timestamp="00:01:20.25">cause you need to eat before that</turn>
<turn n="28" who="S001" timestamp="00:01:22.03">I missed it last time because I <overlap pos="start" n="7"/>
<turn n="29" who="S002" timestamp="00:01:23.24"><overlap pos="start" n="7"/> what <overlap pos="start" n="8"/>
<turn n="30" who="S002" timestamp="00:01:24.15">you missed it this morning</turn>
<turn n="31" who="S001" timestamp="00:01:25.21">no <pause/> I missed it last <overlap pos="start" n="8"/>
<turn n="32" who="S002" timestamp="00:01:27.03"><overlap pos="start" n="8"/> oh last last
<turn n="33" who="S001" timestamp="00:01:31.10">but then I ended up meeting her anyway</tu
<turn n="34" who="S002" timestamp="00:01:33.11">yeah <pause/> you don't have any like bisc
<turn n="35" who="S001" timestamp="00:01:39.02">yeah I have three shortbread biscuits <voc
<turn n="36" who="S002" timestamp="00:01:43.10">aw there's your breakfast <pause/> have <p
<turn n="37" who="S001" timestamp="00:01:48.29">for lunch I made <pause/> boiled eggs <ove
<turn n="38" who="S002" timestamp="00:01:52.01"><overlap pos="start" n="8"/> mhm <overlap

Our focus

- Re-use of ideas and constructions across speaker turns in stance sequences
- ✓ Dialogic resonance (Du Bois, 2014)

Looking closely at the data



When and why is resonance used?

- Previous work holds that it is an effective way to express divergent alignment in a range of discourse contexts.
- Zima et al. (2009) show that it is commonly used in parliamentary debates with political opponents.
- Dori-Hacohen (2017) shows that resonance is an effective tool for rejecting requests for driving directions.

RQs

- Is it the case that resonance more likely than non-resonance in disagreement than in agreement?
- Does resonance lead to faster turn transitions than non-resonance?

Resonance comes in different flavours

<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal desc="laugh"/></turn>
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing t</turn>
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>
<turn n="9" who="S001" timestamp="00:00:24.11">yes <vocal desc="laugh"> I'm interested now</turn>
<turn n="10" who="S002" timestamp="00:00:29.10">Russell Square is it <overlap pos="start" n="2"/></turn>
<turn n="11" who="S001" timestamp="00:00:30.88"><overlap pos="start" n="2"/> yes <vocal desc="laugh"/></turn>
<turn n="12" who="S001" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/></turn>
<turn n="13" who="S002" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/></turn>
<turn n="14" who="S001" timestamp="00:00:38.26">so now I have two free drinks I have the o</turn>
<turn n="15" who="S002" timestamp="00:00:44.03">and the Waitrose one</turn>
<turn n="16" who="S001" timestamp="00:00:45.03">I haven't <overlap pos="start" n="4"/>got</turn>
<turn n="17" who="S002" timestamp="00:00:45.13"><overlap pos="start" n="4"/>oh if if if yo</turn>
<turn n="18" who="S001" timestamp="00:00:47.19"><vocal desc="laugh"/></turn>
<turn n="19" who="S002" timestamp="00:00:50.11">I'll catch up <pause/></turn>
<turn n="20" who="S001" timestamp="00:00:51.22">and <pause/> this one <pause/></turn>
<turn n="21" who="S002" timestamp="00:00:55.20">what do you have on tomorrow <pause/> you</turn>
<turn n="22" who="S001" timestamp="00:00:58.18">yes <pause/> I have <pause/> I have Icelan</turn>
<turn n="23" who="S002" timestamp="00:01:11.00"><overlap pos="start" n="5"/> ugh <overlap pos="start" n="5"/></turn>
<turn n="24" who="S001" timestamp="00:01:12.02"><overlap pos="start" n="5"/> from nine till</turn>
<turn n="25" who="S002" timestamp="00:01:15.16">you're gonna have to have a big lunch <pause/></turn>
<turn n="26" who="S001" timestamp="00:01:19.17">I don't know <pause/></turn>
<turn n="27" who="S002" timestamp="00:01:20.25">cause you need to eat before that</turn>
<turn n="28" who="S001" timestamp="00:01:22.03">I missed it last time because I <overlap pos="start" n="6"/></turn>
<turn n="29" who="S002" timestamp="00:01:23.24"><overlap pos="start" n="6"/> what <overlap pos="start" n="6"/></turn>
<turn n="30" who="S002" timestamp="00:01:24.15">you missed it this morning</turn>
<turn n="31" who="S001" timestamp="00:01:25.21">no <pause/> I missed it last <overlap pos="start" n="7"/></turn>
<turn n="32" who="S002" timestamp="00:01:27.03"><overlap pos="start" n="7"/> oh last last</turn>
<turn n="33" who="S001" timestamp="00:01:31.10">but then I ended up meeting her anyway</turn>
<turn n="34" who="S002" timestamp="00:01:33.11">yeah <pause/> you don't have any like bisc</turn>
<turn n="35" who="S001" timestamp="00:01:39.02">yeah I have three shortbread biscuits <vocal desc="laugh"/></turn>
<turn n="36" who="S002" timestamp="00:01:43.10">aw there's your breakfast <pause/> have <pause/></turn>
<turn n="37" who="S001" timestamp="00:01:48.29">for lunch I made <pause/> boiled eggs <overlap pos="start" n="8"/></turn>
<turn n="38" who="S002" timestamp="00:01:52.01"><overlap pos="start" n="8"/> mhm <overlap pos="start" n="8"/></turn>

Formal resonance

- 'Simple' repetition of words

A: probably **Grade** **two** listed you
B: **Grade** **two** yeah lap

Semantic resonance

<turn n="6" who="S002" timestamp="00:00:10.19">so yeah just weird juices <pause/> <vocal desc="laugh"/>
<turn n="7" who="S001" timestamp="00:00:15.03">any free stuff is like I was just passing t
<turn n="8" who="S002" timestamp="00:00:23.09">give <pause/></turn>
<turn n="9" who="S001" timestamp="00:00:24.11">yes <vocal desc="laugh"> I'm interested now
<turn n="10" who="S002" timestamp="00:00:29.10">Russell Square is it <overlap pos="start" n="2"/>
<turn n="11" who="S001" timestamp="00:00:30.00"><overlap pos="start" n="2"/> yeah <overlap pos="start" n="3"/>
<turn n="12" who="S001" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/>
<turn n="13" who="S002" timestamp="00:00:34.02"><overlap pos="start" n="3"/> no <vocal desc="laugh"/>
<turn n="14" who="S001" timestamp="00:00:38.26">so now I have two free drinks I have the o
<turn n="15" who="S002" timestamp="00:00:44.03">and the Waitrose one</turn>
<turn n="16" who="S001" timestamp="00:00:45.03">I haven't <overlap pos="start" n="4"/>got
<turn n="17" who="S002" timestamp="00:00:45.13"><overlap pos="start" n="4"/>oh if if if yo
<turn n="18" who="S001" timestamp="00:00:47.19"><vocal desc="laugh"/></turn>
<turn n="19" who="S002" timestamp="00:00:50.11">I'll catch up <pause/></turn>

A: it 's a little bit confusing

B: it is all a bit wobbly

<turn n="26" who="S001" timestamp="00:01:19.17">I don't know <pause/></turn>
<turn n="27" who="S002" timestamp="00:01:20.25">cause you need to eat before that</turn>
<turn n="28" who="S001" timestamp="00:01:22.03">I missed it last time because I <overlap pos="start" n="6"/>
<turn n="29" who="S002" timestamp="00:01:23.24"><overlap pos="start" n="6"/> what <overlap pos="start" n="7"/>
<turn n="30" who="S002" timestamp="00:01:24.15">you missed it this morning</turn>
<turn n="31" who="S001" timestamp="00:01:25.21">no <pause/> I missed it last <overlap pos="start" n="7"/>
<turn n="32" who="S002" timestamp="00:01:27.03"><overlap pos="start" n="7"/> oh last last
<turn n="33" who="S001" timestamp="00:01:31.10">but then I ended up meeting her anyway</turn>
<turn n="34" who="S002" timestamp="00:01:33.11">yeah <pause/> you don't have any like bisc
<turn n="35" who="S001" timestamp="00:01:39.02">yeah I have three shortbread biscuits <vocal desc="laugh"/>
<turn n="36" who="S002" timestamp="00:01:43.10">aw there's your breakfast <pause/> have <pause/>
<turn n="37" who="S001" timestamp="00:01:48.29">for lunch I made <pause/> boiled eggs <overlap pos="start" n="8"/>
<turn n="38" who="S002" timestamp="00:01:52.01"><overlap pos="start" n="8"/> mhm <overlap pos="start" n="9"/>

Semantic resonance

A: yet **he is still healthy**# he reminds me [of my brother]

B: [**he is still walking**] around#

Du Bois, 2014:368

Non-resonance: response tokens

A: you'd think what I do isn't valuable

B: no no no

Non-resonance: elaborated turns

A: you need to moderate the length

B: yeah that was a long essay

Resonance in disagreement

(Wife (A) and husband (B) are talking about their daughter)

A: I'm surprised that she's unaware of the programme at seven AM on Sunday which is called uh it's called Sunday

B: well why should she be **she hasn't hitherto been particularly interested in religious things [has she]**

A: **[you mean] she hasn't particularly been up at seven AM**

B: no that too



Data

- London–Lund Corpus–2
- Sample for this study

- ~100,000 words of everyday face-to-face conversation
- 260 resonating stance-taking sequences and 316 non-resonating sequences (sequence = two utterances produced by two different speakers)

(Pöldvere, Johansson & Paradis, 2021b)

Manual annotation

- **Resonance**

- Resonance: formal vs. semantic resonance (Du Bois, 2010)
- Non-resonance: response tokens vs. elaborated turns

- **Stances in alignment**

- Agreement vs. Disagreement

- **Measurements of turn transitions (in ms)**

Inter-rater reliability

- We ran a series of inter-rater reliability tests on ~10% of the stance-taking sequences
- A detailed annotation protocol was devised.
- A research assistant with no prior experience in dialogic resonance.

Annotator comparisons

- 94.83% agreement for the broad classification (resonance – non-resonance)
- 89.66% agreement for the fine-grained classification into formal and semantic resonance and response items and elaborated turns in non-resonance
- 100% agreement for both (dis)agreement

Two different approaches to resonance

Du Bois (2014):

Socially motivated phenomenon that occurs because speakers want to engage with the words of their interlocutors for various communicative purposes (cf. Clark, 1996)

Garrod and Pickering (2004):

Automatic cognitive process whereby prior expression primes the reuse of the same linguistic representations by the next speaker

Points of overlap

Du Bois (2014):

The cognitive process of priming *facilitates* the uptake of certain linguistic constructions

Garrod and Pickering (2004):


Priming *facilitates* processing in dialogue; social processes may play a role

Aims of this study

- To explore what kind of a job resonance does for speakers in stance-taking situations
- Consider the theoretical issue of social (Du Bois) and cognitive (Garrod & Pickering) aspects of resonance

Social motivation for resonance

- Explored through functions in stance-taking sequences → agreement vs. disagreement



Prediction 1. Resonance is more likely to be used in disagreement, while non-resonance is the preferred option in agreement.

Cognitive facilitation in resonance

- Operationalized as the time it takes for speakers to respond to the interlocutor's prior stance



Prediction 2. Due to the facilitating effect of reusing prior constructions, transitions between speaker turns are faster in resonating sequences compared to when the turns are constructed anew.

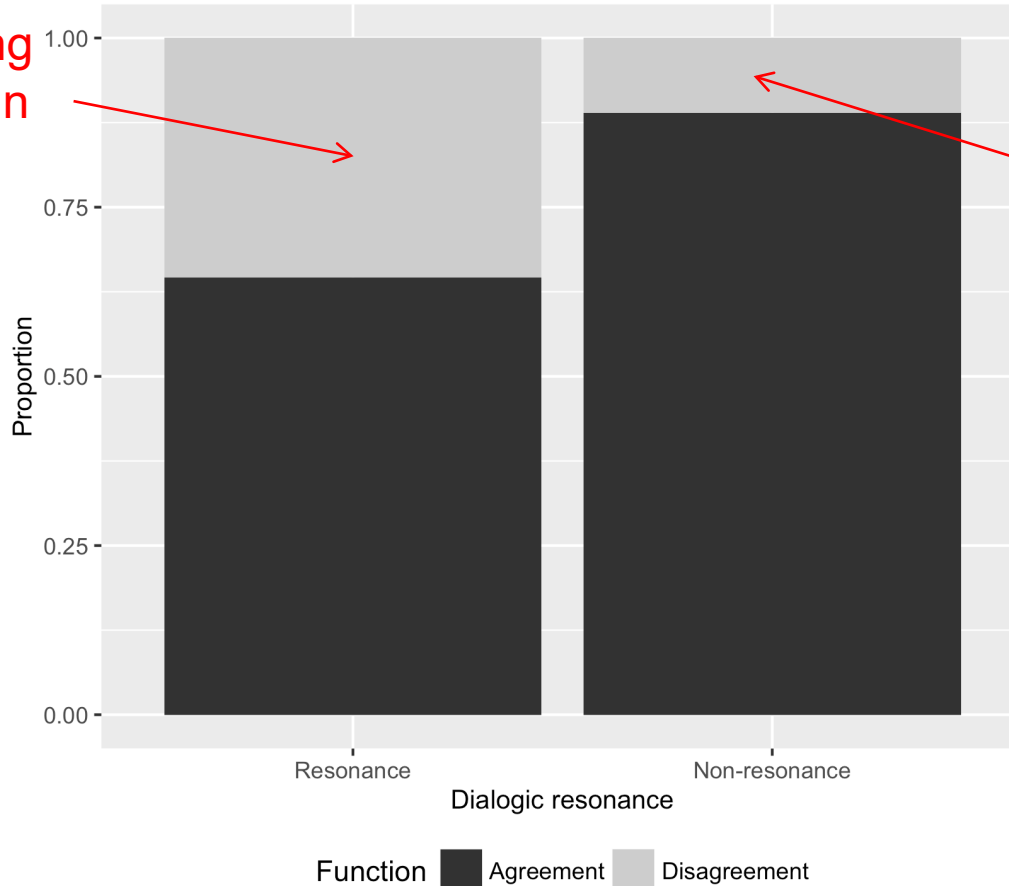
Results



Part I: Social motivation

35% of resonating sequences are in disagreement

11% of non-resonating sequences are in disagreement



Logistic regression analysis:

***Significant association between resonance and disagreement

Part I: Social motivation

- Support for Prediction 1: more resonating sequences in disagreements than in non-resonating ones.
- But why? What could the interpersonal motivations and effects be?



Our interpretation

- resonance reinforces the perception of interpersonal solidarity between the speakers

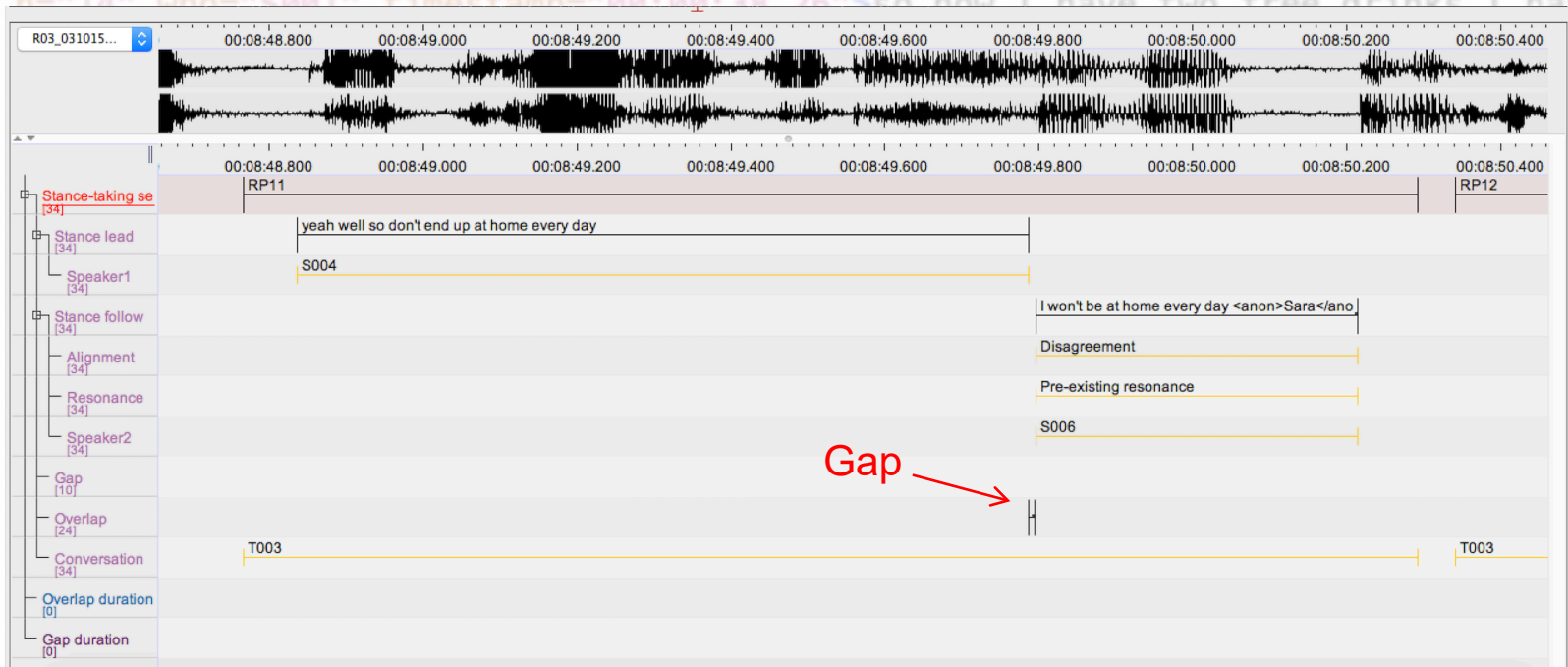
because

- interlocutors get a feeling of engagement with their own stance
- they take less offence when they hear their own words back
- satisfies people's adaptive needs, and therefore
- has a mitigating effect on disagreement

Part II: Cognitive facilitation

- How did we do it?

Example in ELAN (Wittenburg et al., 2006)

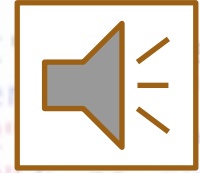


A: yeah well so don't end up at home every day

(8 ms)

B: I won't be at home every day <anon>Sara</anon>

This is how it sounds...



A: it's really difficult living with him I'm telling you [he is] really

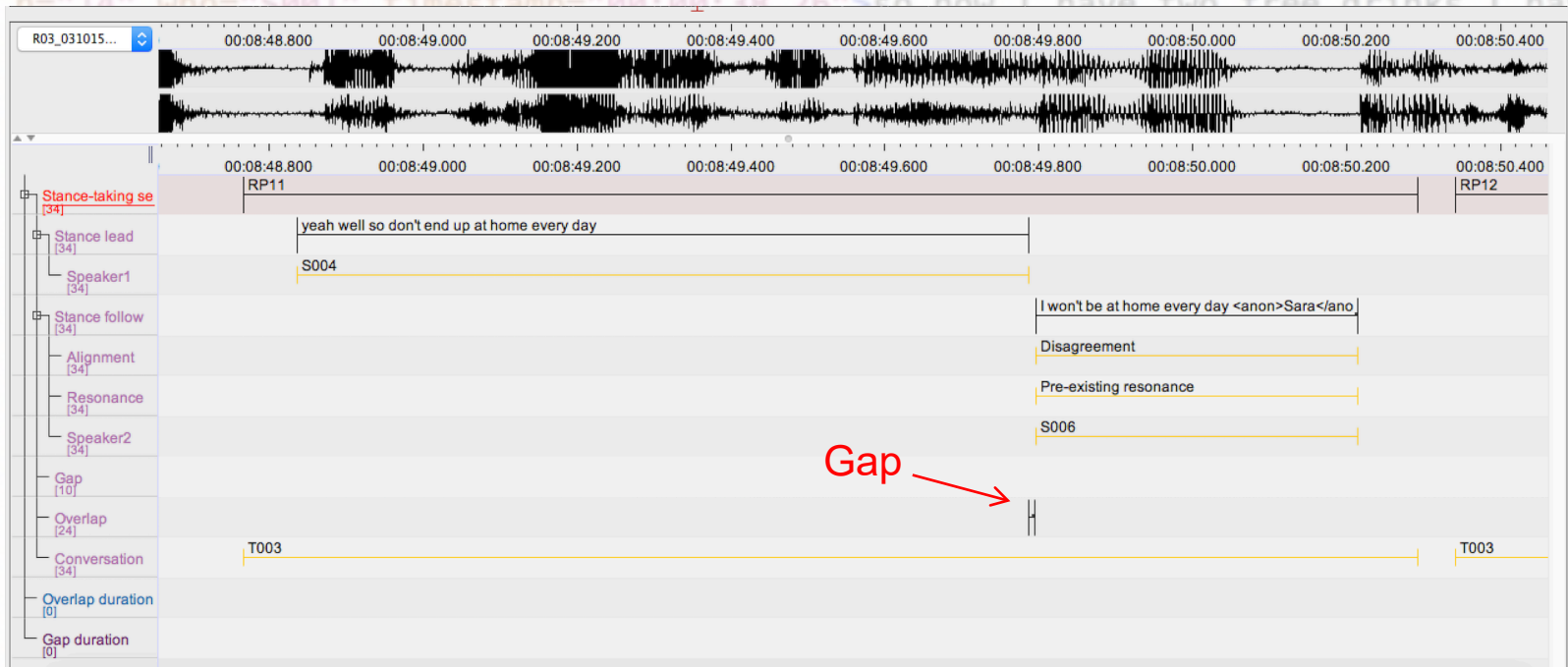
B: [yeah well so don't]

B: end up at home every day

A: I won't be at home every day <anon>Sara</anon>

B: well you will if you don't set something up

Example in ELAN (Wittenburg et al., 2006)

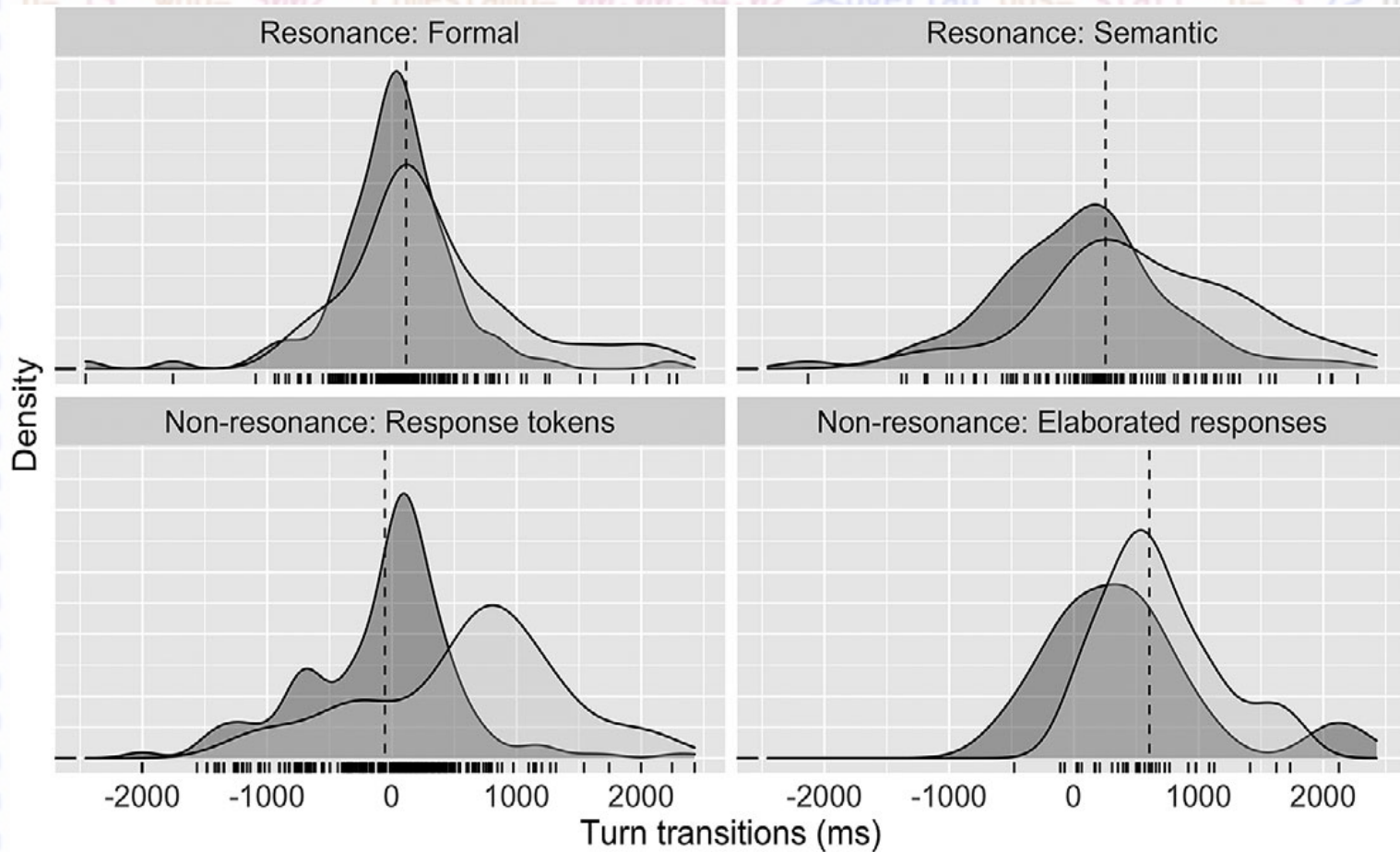


A: yeah well so don't end up at home every day

(8 ms)

B: I won't be at home every day <anon>Sara</anon>

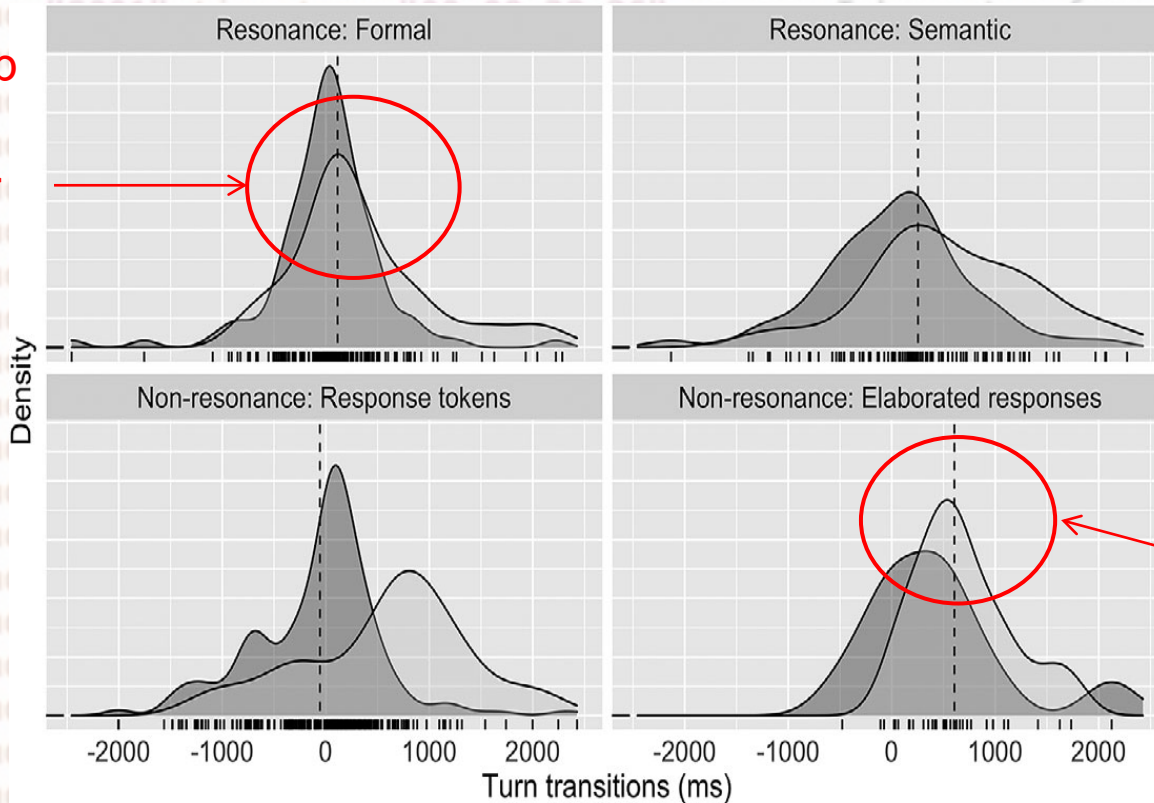
Part II: Cognitive facilitation



Intersubjective alignment Agreement Disagreement

Part II: Cognitive facilitation

“don't end up at home every day -> I won't be at home every day”
($M = 195.21$ ms)



“you need to reduce the length -> but it was already a short essay”
($M = 599.43$ ms)

Intersubjective alignment Agreement Disagreement

Linear regression analysis:

**Significant difference between formal resonance and elaborated non-resonating turns

Part II: Cognitive facilitation

Prediction 2. Due to the facilitating effect of reusing prior constructions, transitions between speaker turns are faster in resonating sequences compared to when the turns are constructed anew.

Part II: Cognitive facilitation

- Partial support for Prediction 2: Speaker turns are produced faster in formally resonating turns than in elaborated non-resonating turns



Cognitive facilitation plays a role in resonance → it makes it possible for speakers to counter the temporal challenges of dialogic interaction

Taken together...

- In disagreement, speakers are more likely to resonate with the previous speaker than not.
- Alignment is slower in sequences of disagreement than agreement
- But, formal resonance is the fastest condition and elaborated non-resonating turns the slowest.

Conclusion

Resonance with previous speaker turns appears to be a compelling feature in meaning negotiation, dialogue management and stance coordination in everyday face-to-face conversation.

And more apt in disagreement of stances.

Conclusion

The results suggest that resonance does not lie in the privileged role of any one process but in the close association between social motivation and cognitive facilitation



Adele Goldberg @adelegoldberg1 · 6m



fascinating paper by @NelePoldvere: Repeated cxs across participants are produced more quickly (accessibility), & more commonly when disagreeing than agreeing cambridge.org/core/services/...

NELE POLDVERE

Lund University and University of Oslo

VICTORIA JOHANSSON

AND

CARITA PARADIS

Lund University

(Received 14 October 2020 – Revised 14 June 2021 – Accepted 21 July 2021)

ABSTRACT

Dialogic resonance, when speakers reproduce constructions from prior turns, is a compelling type of coordination in everyday conversation. This study takes its starting point in resonance in stance-taking sequences with the aim to account for the interplay between intersubjective motivations



5



Pöldvere, Johansson, & Paradis 2021c.



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Next step



Next step

Explore the mitigating function of resonance through experimentation



Experiment

Participants listen to video-recordings between actors who disagree with one another

Stimuli: alignment/not; formal/semantic; short/long time lapses between turns

Assessments about social closeness and attitudes to one another



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Contact information



<https://projekt.ht.lu.se/llc2/>



llc2@englund.lu.se



[@NelePoldvere](https://twitter.com/NelePoldvere)

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London–Lund Corpus 2

A CORPUS OF SPOKEN BRITISH ENGLISH

Welcome to the official website of LLC–2

The London–Lund Corpus 2 (LLC–2) is a half-a-million-word corpus of spoken language with recordings from 2014–2019 with adult educated speakers of British English. On the one hand, the corpus is a resource for studying contemporary speech from a synchronic perspective and across different registers and groups of speakers. On the other hand, it is designed according to the same principles as the original [London–Lund Corpus](#) (LLC–1) with data recorded in the 1950s–1980s. To this end, it facilitates principled comparisons across different time periods of English with roughly 50 years in between. The corpus design includes: face-to-face conversation, phone/CMC conversation (landline telephone calls in LLC–1), broadcast media, parliamentary proceedings, spontaneous commentary, legal proceedings and prepared speech.



Thanks to you

Photo: Vincent Pelletier



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