Focus on what's not at issue:

gestures, presuppositions, supplements under Contrastive Focus

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- 2 When are at-issue readings forced under CF?
- Form of CF-forced at-issue readings



Original debate: the semantic status of gestures

- What is the semantic status of informative, non-emblematic gestural adjuncts: *co-speech gestures*, as in (1a), and *post-speech gestures*, as in (1b)?
- (1) There was a party at my place yesterday and...



- a. John brought [his dog]^{LARGE}
- b. John brought his dog LARGE.
 For (a,b):
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 - (i) \rightarrow John has a unique dog.
 - (ii) \rightarrow John's unique dog is large.

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- b. John brought his dog LARGE.
 For (a,b):
 (i) → John has a unique dog.
 (ii) → John's unique dog is large.
- Inference (i) suggests that the gestures in (1) are used non-restrictively. What is the status of inference (ii)?

• Ebert (& Ebert) claim that co-speech gestures are Pottsian (2005) supplements, and post-speech gestures are at-issue (2014)/parenthetical (2017); Schlenker (to appear) argues co-speech gestures trigger a special kind of presuppositions, and post-speech gestures are supplements.

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- Both currently agree that gestures, co- or post-speech, are at least by default — not-at-issue, which is suggested by the projection of the gestural inferences in (2):
- (2) I'm having a party at my place tomorrow.
 - a. If John brings [his dog]^{LARGE}, it's gonna be a mess.
 - b. If John brings [his dog] LARGE, it's gonna be a mess. For (a,b): \rightarrow John's unique dog is large.

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- In this respect gestures pattern with other traditionally identified types of not-at-issue content, such as presuppositions and supplements, in particular, non-restrictive relative clauses and nominal appositives.
- (3) I'm having a party at my place tomorrow.
 - a. If John brings his dog, it's gonna be a mess. \rightarrow John has a (unique) dog.
 - b. If John brings his dog, who's (by the way) large, it's gonna be a mess. \rightarrow John's unique dog is large.
 - c. If John brings his dog, a large beast, it's gonna be a mess. \rightarrow John's unique dog is large.

Observation: at-issue interpretations of co-speech gestures under CF

- Co-speech gestures can sometimes be forced to have at-issue (non-projective) interpretations under Contrastive Focus (CF)¹:
- (4) I'm having a party at my place tomorrow.

it's gonna be OK, but if he

brings [his dog]^{LARGE}

it's gonna be a mess.

 $\not\rightarrow$ John has a unique dog.

If John brings [his dog]^{SMALL}

 $\not\rightarrow$ John's unique dog is small/large.

 \approx If John brings his small dog, it's gonna be OK, but if he brings his large dog, it's gonna be a mess.

¹Observation originally due to R. Pasternak (p.c.), but his examples can be analyzed as instances of corrective Focus. ELE DOG < ロ > < 同 > < 回 > < 回 > < 回 > <



Goals of this project

• Systematically look at different types of not-at-issue content and determine (i) when at-issue interpretations are forced under CF, (ii) what exactly their form is — careful introspective judgements.

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- Systematically look at different types of not-at-issue content and determine (i) when at-issue interpretations are forced under CF, (ii) what exactly their form is careful introspective judgements.
- Assess the predictions of the supplemental vs. presuppositional approaches to co-speech gestures, as well as a potential alternative to both, re the data obtained.

Anticipating the conclusions

• Whether at-issue interpretations of not-at-issue content are forced under CF is determined by independent structural parameters: temporal alignment, structural independence, modality, etc.

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- The exact form of at-issue interpretations of co-speech gestures under CF suggests that they can't be uniformly structurally similar to non-restrictive relative clauses or appositives (contra one understanding of Ebert); treating them as presuppositions that allow for local accommodation (Schlenker) might work, but there are a few loose ends to tie up. An alternative — hybrid — analysis treating gestures as structurally ambiguous between NP-level modifiers that can trigger presuppositions and DP-level supplements looks promising.

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- The data at hand raise the question whether we need a more fine-grained typology of not-at-issue content that relies on independent structural parameters rather than on a stipulated binary presupposition vs. supplement distinction — cf. typology of iconic enrichments in Schlenker accepted.

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2 When are at-issue readings forced under CF?

3 Form of CF-forced at-issue readings

4 Conclusion: a more fine-grained typology of not-at-issue content?

Gestures and supplements

 Generalization 1: CF forces at-issue readings of not-at-issue content only when (i) that not-at-issue content co-occurs with some at-issue content, and (ii) the said at-issue content is non-contrastive across the contrasted alternatives.

Gestures and supplements

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- Generalization 1 for structurally independent not-at-issue content (co-speech gestures vs. post-speech gestures and supplements):
- (5) Context: We live in a world, in which whenever a small animal and a large animal are in one room, they fight.
 - a. If John brings [his dog]^{SMALL}, and Bill brings [his dog]^{LARGE}, they'll fight. \approx If John brings his small dog, and Bill brings his large dog...
 - b. If **John** brings his dog **SMALL**, and **Bill** brings his dog **LARGE**, they'll fight.
 - c. If **John** brings his dog, who's (btw) **small**, and **Bill** brings his dog, who's (btw) **large**, they'll fight.
 - d. If **John** brings his dog, a **small** animal, and **Bill** brings his dog, a **large** animal, they'll fight.

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- Putting the CF elsewhere brings back the not-at-issue interpretation for co-speech gestures:
- (6) If John brings [**his** dog]^{SMALL}, and Bill brings [**his** dog]^{LARGE}, they'll fight. \rightarrow John's unique dog is small, Bill's unique dog is large.

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 - If the verbal expressions the gestures co-occur with are contrastive, no at-issue interpretation is forced either:
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 - A real life example (slightly adjusted) to illustrate the same point:

(8) If you're going for [a coffee]^{SMALL}



... You know, if you're going for



- [a real coffee]^{SMALL}_
- \rightarrow Real coffees are small, Starbucks coffees are large.

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- Furthermore, we can't have counterpart examples of (5a) for lexical presuppositions in which the at-issue content is non-contrastive both semantically and phonologically.
- When the contrast is phonological only, both readings seem available (with the one involving local accommodation possibly degraded):
- (9) If Alex is a **bachelor**, and Kim is a **spinster**, I'll win.
 - a. OK for all: \rightarrow Alex is male, Kim is female; the QUD is about their marital status.
 - b. OK for some: \rightarrow Alex and Kim are unmarried; the QUD is about their gender.

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- Alternative: only semantic contrast matters for CF (cf. corrective Focus), but in triggers like *bachelor* and *spinster* the not-at-issue content is both asserted and presupposed (I. Heim, p.c.). E.g., assuming Abusch's (2009) mechanism of triggering from alternatives, *bachelor* can mean smth like 'male and unmarried', with the presupposed alternative set 'male and unmarried', 'male and married'.

Showing how it works

- Contrastive gestures co-occurring with non-contrastive verbal expressions under CF ([his dog]^{SMALL} vs. [his dog]^{LARGE}):
 - No phonological contrast b/n the contrasted alternatives (dog vs. dog).
 - The at-issue content co-occurring with the CF markers is semantically non-contrastive b/n the contrasted alternatives ('dog' vs. 'dog').
 - The gestures thus have to be made at-issue to license CF, resulting in smth like 'his small dog' vs. 'his large dog'.

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 - The gestures thus have to be made at-issue to license CF, resulting in smth like 'his small dog' vs. 'his large dog'.
- Contrastive gestures co-occurring with non-contrastive verbal expressions, CF elsewhere ([*his_i* dog]^{SMALL} vs. [*his_j* dog]^{LARGE}):
 - Semantic contrast b/n 'his_i' and 'his_i', so CF is OK.
 - *Dog* and *dog* don't co-occur with the CF markers, so the gestural inferences can project (but they don't have to).

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- Presupposition triggers with non-contrastive at-issue content and contrastive not-at-issue content (*bachelor* vs. *spinster*):
 - The phonological contrast b/n *bachelor* and *spinster* licenses CF, so it doesn't matter that the at-issue content of the contrasted alternatives is non-contrastive, the presuppositions won't be forced to be accommodated (but they still can be).

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- Contrastive gestures/supplements following non-contrastive DPs (*his dog SMALL* vs. *his dog LARGE*; *his dog, who's small* vs. *his dog, who's large*):
 - The phonological and semantic contrast b/n the gestures/supplements license CF; the non-contrastive DPs don't co-occur with CF markers, so no further licensing needs arise.

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 - structural independence: whether the not-at-issue content is structurally independent (gestures, supplements) or sublexical (presuppositions);
 - modality: whether the not-at-issue content exists in a secondary modality wrt the primary phonological modality of the string (co-speech gestures) or not (post-speech gestures, supplements, presuppositions).
Introduction

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Focus on what's not at issue

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- Generalization 2: CF-forced at-issue readings of co-nominal not-at-issue content must be restrictive.
- Illustrating Generalization 2 for co-speech gestures ((4) repeated):
- (10) If John brings [his dog]^{SMALL}, it's gonna be OK, but if he brings [his dog]^{LARGE}, it's gonna be a mess.
 - a. \approx If John brings his small dog, it's gonna be OK, but if he brings his large dog, it's gonna be a mess.
 - b. \neq If John brings his dog and it's **small**, it's gonna be OK, but if he brings his dog and it's **large**, it's gonna be a mess.

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 - b. \neq If John brings his dog and it's **small**, it's gonna be OK, but if he brings his dog and it's **large**, it's gonna be a mess.
 - (10a) corresponds to (11a) (restrictive relative clauses); and (10b) to (11b) with the non-restrictive relative clauses accommodated:
- (11) a. If John brings his dog that's **small**, it's gonna be OK, but if he brings his dog that's **large**, it's gonna be a mess.
 - b.#If John brings his dog, who's **small**, it's gonna be OK, but if he brings his dog, who's **large**, it's gonna be a mess.

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Theoretical implications: structure of co-speech gestures

 If co-nominal gestures were uniformly structurally similar to non-restrictive relative clauses and nominal appositives (DP-level attachment + anaphoric element), we'd expect (10) to be bad or the reading (10b) to be available.

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- Does this observation have any bearing on the presupposition vs. supplement debate about the status of co-speech gestures? Yes, if we understand the supplemental analysis of co-speech gestures to be a claim about their structure. No, otherwise.
- Either way, we have to assume some constraint against accommodation of non-restrictive not-at-issue content², but this constraint can rely on structural properties.

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²Once again, what matters is if that content projects; the content of utterance-final non-restrictive relative clauses can sometimes be challenged in the discourse (Koev 2012; Syrett & Koev 2014).

Theoretical implications: predictions of the cosuppositional analysis

- Some details of (one version of) the cosuppositional analysis of co-speech gestures (Schlenker to appear):
 - A gesture G co-occurring with a verbal expression P triggers an assertion-dependent conditional presupposition (cosupposition) P ⇒ G, where ⇒ is generalized entailment.
 - That cosupposition needs to be entailed by the local context (Schlenker 2009) of the word-gesture cluster, but can also be locally accommodated, in which case it's conjoined to the verbal expression *P*.

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- It's currently unclear how things would work for DP-level attachment.
- For NP level attachment with possessive definites:
- (12) If John brings [his $_{c'} dog$]^{LARGE}...
 - a. Projection: $c' \models \operatorname{dog}'(y) \Rightarrow \operatorname{large}'(y)$
 - good or not, depends on how the local contexts are computed; also, dog can be a relational noun here (dog'(y, i)), where *i* resolves to John)
 - b. LA:

$$...\iota x. dog'(x) \land (dog'(x) \Rightarrow large'(x)) ... = ...\iota x. dog'(x) \land large'(x) ...$$

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• Potential problem: the following contrast holds for indefinites, too:





beer]^{LARGE}

I'll win.

 $\not\rightarrow$ If John/Bill orders a beer, it'll be small/large.

b. If **John** orders [a beer]^{SMALL}, and **Bill** orders [a beer]^{LARGE}, I'll win. \rightarrow If John orders a beer, it'll be small; if Bill orders a beer, it'll be large.



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- b. If John orders [a beer]^{SMALL}, and Bill orders [a beer]^{LARGE}, I'll win. \rightarrow If John orders a beer, it'll be small; if Bill orders a beer, it'll be large.
- Yet, as things stand, the analysis predicts a contradictory requirement if both cosuppositions project, regardless of CF:
- (14) If John orders [a $_{c'}$ beer]^{SMALL}, and Bill orders [a $_{c''}$ beer]^{LARGE}... Projection: $c' \models \text{beer}'(y) \Rightarrow \text{small}'(y); c'' \models \text{beer}'(y) \Rightarrow \text{large}'(y)$

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 - Potential solution: variable-sensitive domain restrictions (P. Schlenker, p.c.) on the verbal predicates (e.g., *beer relevant to i*).

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Alternative: mixed behavior analysis of co-speech gestures

- Co-speech gestures can adjoin at the NP level, in which case they are essentially modifiers and contain no anaphoric element:
 - They preferably have a not-at-issue interpretation, the mechanics of which can be similar to Schlenker's cosuppositions (the same mechanism might be at play for non-restrictive adjectives discussed in Leffel 2014). These interpretations will be quite general.
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 - If the not-at-issue interpretations is impossible/unlikely (e.g., due to the requirements of CF), one can default to the at-issue interpretation (ordinary restrictive modifier).
- Co-speech gestures can also adjoin at the DP level, in which case they contain an anaphoric element and have structure and interpretation very close to non-restrictive relative clauses/nominal appositives:
 - The not-at-issue interpretations will be more narrow (linked to specific discourse antecedents) due to the presence of the anaphoric element no need to assume a different triggering/projection mechanism.
 - At-issue interpretations won't be available for DP-level gestures (still a puzzle but a puzzle for everyone).

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Focus on what's not at issue

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What about post-speech gestures?

• The consequence of the sketch above is that only NP-level gestures can have at-issue interpretations.

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What about post-speech gestures?

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- My tentative claim is that post-speech gestures can't adjoin at the NP level for prosodic reasons (you can't have them in the same intonational phrase as the NP they'd modify; see Esipova 2017 for more details), only at the DP level, so they'll always be supplement-like structurally.

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What about post-speech gestures?

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- Try uttering (15) (the only interpretation to make sense would be the restrictive one):
- (15) If John brings his dog SMALL, it's gonna be OK, but if he brings his dog — LARGE, it's gonna be a mess.

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1 Introduction

2) When are at-issue readings forced under CF?

3 Form of CF-forced at-issue readings

4 Conclusion: a more fine-grained typology of not-at-issue content?

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Conclusion: a more fine-grained typology of not-at-issue content?

• Different types of not-at-issue content behave differently under CF, in ways that go beyond the presupposition vs. supplement binary.

Typology of adnominal not-at-issue content re behavior under CF						
	gestures			NRCs & appositives	lexical presuppositions	
alignment attachment	co- NP	DP	post- only DP	only post- only DP	only co- n/a?	
2ndary modality	+	+	+	_	_	
struct. independ.	+	+	+	+	_	
own time slot	_	_	+	+	_	
anaph. element	_	+	+	+	_	
possibility of local acc.	yes	no	no	no	yes	
adjoining to	local acc.	*	projection	projection	phonological	
non-contrastive at-issue content under CF	forced		or *	or *	licensing of CF	
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• Looking at behavior of gestures in this respect is particularly illuminating, since we can manipulate the temporal alignment parameter without manipulating structural independence.

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- Looking at behavior of gestures in this respect is particularly illuminating, since we can manipulate the temporal alignment parameter without manipulating structural independence.
- How much mileage can we get from these parameters? Can we dispose of the presupposition vs. supplement distinction completely, replacing it with a more uniform yet more fine-grained typology of not-at-issue content?

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• How acceptable are at-issue interpretations of not-at-issue content under CF?

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- Tieu et al. 2017a,b provide experimental data showing that co-speech gestures are more likely to be interpreted as not-at-issue than at-issue controls, but even they got plenty of at-issue interpretations despite any obvious pressure. They attributed those to local accommodation and concluded that co-speech gestures are weak presupposition triggers (same claim made in Schlenker to appear).

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- I have some preliminary experimental evidence on acceptability of CF-forced at-issue interpretations of co-speech gestures suggesting that the latter aren't uniformly weak triggers across individual speakers.

• Design:

• Participants watched videos of sentences in English.

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 - Participants watched videos of sentences in English.
 - Each trial had a pair of videos (16 trials + 2 attention checks). The two videos began with the same unfinished sentence, containing a word-gesture cluster under CF, but differed in the continuations that followed after a brief black screen. In one of the continuations the other CF-ed word-gesture cluster had the same verbal content, but a contrastive gesture (Gestural Contrast condition), and in the other it had the same gesture but contrastive verbal content (Verbal Contrast condition). See (16).

- (16) John might order [a **beer**]^{SMALL}...
 - a. ... or $[a beer]^{LARGE}$.
 - b. ...or [a cocktail]^{SMALL}.

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[Gestural Contrast]

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 - Two additional factors had to do with if the gesture encoded size or shape, and if the gestures were produced emphatically. I won't discuss them.

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 - Two additional factors had to do with if the gesture encoded size or shape, and if the gestures were produced emphatically. I won't discuss them.
 - Participants were asked to rate the naturalness of the continuations on a pseudo-continuous slider scale (0–100 in reality) from 'Totally unnatural' to 'Totally natural'.
- (16) John might order [a **beer**]^{SMALL}...
 - a. ...or [a **beer**]^{LARGE}.
 - b. ...or $[a \text{ cocktail}]^{\text{SMALL}}$.

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[Gestural Contrast]

[Verbal Contrast]

- Results:
 - Gestural Contrast examples (M = 39.10) were overall less acceptable than Verbal Contrast examples (M = 53.60): F(1, 3326) = 171.6, p < 2e-16, adjusted $R^2 = 0.049$. See Fig. 1.



Fig. 1: Main effect of Contrast.

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 - That said, there was a great deal of individual variation see Fig. 2.



Fig. 1: Main effect of Contrast.

Fig. 2: Individual variation in acceptability of Gestural Contrast (X axis) vs. Verbal Contrast (Y axis) examples.

• Discussion:

• The huge amount of individual variation for the Contrast factor does not allow us to conclude that co-speech gestures are uniformly weak or strong projection triggers. Whatever the nature of the bias against at-issue interpretations of co-speech gestures is, it should allow for gradience and variability across individuals.

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- What about other types of not-at-issue content? Might it be that there is a similar amount of variation, say, for presupposition triggers wrt cost of local accommodation, so that we need to relativize the notion of trigger strength not only across triggers but across individuals?

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- What about other types of not-at-issue content? Might it be that there is a similar amount of variation, say, for presupposition triggers wrt cost of local accommodation, so that we need to relativize the notion of trigger strength not only across triggers but across individuals?
- How much of the observed variation is due to bona fide grammar differences across individuals, and how much of it can be attributed to behavioral differences in how individual participants approach the acceptability judgement task? Is there a link between the two?

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