PRAGMATIC WEAKENING & PRESUPPOSITION PROJECTION

Jon Ander Mendia
CORNELL UNIVERSITY

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The plot

Presupposition Projection is messy. Mainstream theories (i.e. "satisfaction" theories) propose *weak* presuppositions that are then *pragmatically strengthened* under to-be-determined conditions. Here I explore the opposite route: presuppositions are *semantically strong* but can nevertheless be *pragmatically weakened*. When? When **not** doing so leads to "pragmatic embarrassment," such as declaring oneself to hold an inconsistent epistemic state.

The plot

(1) Kipchoge stopped running.

→ Kipchoge was running

Projection

(1) Kipchoge stopped running.

→ Kipchoge was running

- (2) a. Kipchoge has not stopped running.
 - b. It is possible that / Perhaps Kipchoge has stopped running.
 - c. Sam believes/thinks that Kipchoge has stopped running.
 - d. If Kipchoge has stopped running, he must be really tired.
 - e. Has Kipchoge stopped running?
 - → Kipchoge was running.

- (3) a. Kipchoge was running, but he has stopped running.
 - b. If Kipchoge is participating, he has stopped.
 - c. Either Kipchoge wasn't running, or he has stopped running.
 - → Kipchoge was running.

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 - c. Either Kipchoge wasn't running, or he has stopped running.
 - → Kipchoge was running.
- (4) a. If K is tired, he will stop running soon. $\sim K$ is running
 - b. If K is *participating*, he will stop running soon. *→* K is running

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 - → Kipchoge was running.
- (4) a. If K is tired, he will stop running soon. \rightarrow K is running
 - b. If K is *participating*, he will stop running soon. *→* K is running
- Presuppositions carried by the clauses of compound sentences do not follow a single projection pattern. (Langendoen and Savin 1971)

The Projection Problem

How to predict the presuppositions of complex sentences in a compositional fashion from the presuppositions of their parts? (Heim 1983, 114)

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Question 1

What explains the *lack* of presupposition projection (e.g. as in (3))?

Question 2

What happens to presupposed meanings that do not project?

Two types of account

- ① Weak (conditional) projection + pragmatic strengthening. (see e.g. Beaver 2001, von Fintel 2008)
- Strong (default) projection + pragmatic weakening. (e.g. Gazdar 1979, van der Sandt 1988)

Satisfaction Theory

- Presuppositions must be satisfied in their local contexts.
- $A \odot B_p$ is uttered in c.
- The local context of B_p is $c \cup \{A\}$, so $c \cup \{A\} \models p$.
- $c \cup \{A\} \vDash p \equiv c \vDash A \rightarrow p$
- \bullet $A \odot B_p$ presupposes $A \rightarrow p$ instead of just p.

Problem 1 w/ ST: Proviso problem

ST often predicts presuppositions of the form $A \rightarrow p$, where the intuitively perceived presupposition is simply p. (Geurts 1996, 260)

A new material implication arises $(A \rightarrow p)$, which is often too weak as a presupposition of $A \odot B_p$.

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A new material implication arises $(A \rightarrow p)$, which is often too weak as a presupposition of $A \odot B_p$.

In a context *c* where 「John has a sister」 ∉ *c*:

- (5) If John has free time this afternoon, he'll pick up his sister at the airport.
 → John has a sister
- **! Prediction**: John has free time \rightarrow John has a sister.

Problem 1 w/ ST: Proviso problem

In a context *c* where 「John has a sister [¬] ∉ *c*:

- (5) If J has free time this afternoon, he'll pick up his sister.
 - → J has a sister
 - → If J has free time, J has a sister
- **Solution**: Pragmatic strengthening. Does the presupposed content *p* relate in any way to the antecedent *A*?

YES: Leave the conditional presupposition $A \rightarrow p$ untouched.

NO: Strengthen $A \rightarrow p$ to p.

...where relate in any way has been proposed to mean:

- ▶ Does A increase the likelihood of *p*?
- ▶ Is A relevant to *p*?
- ▶ Is *p* more plausible if A?

Problem 2 w/ ST: Unexpected strengthening Mandelkern (2016)

- (6) #John was limping earlier; I don't know why. Maybe he has a stress fracture. I don't know if he plays any sports. However, if he has a stress fracture, then he'll stop running cross-country now.
- ST's prediction: John has a stress facture \rightarrow John ran cross-country
 - \triangleright p more plausible given A; A relevant to p, increases the likelihood of p...
 - strengthing of $A \rightarrow p$ to p is **not** expected

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- In (6) S seems to presuppose that *John ran cross-country* even after declaring she doesn't know whether John plays any sports.
 - The strengthened (unconditional) presupposition *p* clashes with information already in *c*.
- ▶ It seems that (6) is infelicitous only because of pragmatic strengthening. But shouldn't pragmatic strengthening be (i) optional and (ii) typically conditional on not "causing any trouble"?

Problem 2 w/ ST: Unexpected strengthening Mandelkern (2016)

(7) ✓ John was limping earlier; I don't know why. Maybe he has a stress fracture. I don't know if he plays any sports. If he has a stress fracture, then he'll stop running cross-country now.

Question 1

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What explains the *lack* of presupposition projection (e.g. as in (3))?

Presuppositions cannot project if they "cause pragmatic embarrassment" (Beaver et al. 2021).

Today: pragmatic weakening

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Epistemic defensibility

if speaker S is ignorant about proposition ϕ , a complex sentence will not presuppose ϕ , since, if it did, the speaker would have to be assumed to hold an inconsistent epistemic state. (cf. Gazdar 1979)

General considerations

- What I'm not attempting to do (not today at least):
 - ► A theory of presupposition.
 - ► A solution to the proviso problem.
 - ▶ An all encompassing attempt at accounting for all cases of projection.

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- What I'm not attempting to do (not today at least):
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 - A solution to the proviso problem.
 - ▶ An all encompassing attempt at accounting for all cases of projection.
- This is an attempt at understanding what factors enter into consideration when a presupposition fails to project.
 - ► Are there general constraints against projection, independent of construction/trigger?
 - ► Can we identify factors external to the theory of presupposition that help remove some of the explanatory onus from it?

...

Karttunen's (1974) insight

- Crucial observation: what (at least some) compound sentences presuppose is not fixed; it depends on properties of the context.
 - (8) a. If Dean told the truth, Nixon is guilty too.
 - → Someone other than Nixon is guilty
 - b. If Haldeman is guilty, Nixon is guilty too.
 - → Someone other than Nixon is guilty
 - c. If Miss Woods destroyed the missing tapes, Nixon is guilty too.
 - → Someone other than Nixon is guilty (if destroying tapes is a crime)
 - ⋄ Someone other than Nixon is guilty (if destroying tapes is) not a crime)

Karttunen's (1974) generalization

Satisfaction

Context c satisfies the presuppositions of $A \rightarrow B$ just in case (i) c satisfies the presuppositions of A, and (ii) $c \cup A$ satisfies the presuppositions of B.

Karttunen's (1974) generalization

- A context c satisfies the presuppositions of conditional $A \rightarrow B_p$ in exactly following kinds of context, leading to the minimal conditions for a context to satisfy the presupposition of a conditional.
 - 1. $c \models p$
 - 2. $c \not\models p$ but $c \cup A \models p$
 - 3. $c \models A \rightarrow p$

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 - 2. $c \not\models p$ but $c \cup A \models p$
 - 3. $c \models A \rightarrow p$
- Identifying the minimal condition in (3) with the presupposition of $A \rightarrow B_p$, predicts conditional presuppositions $A \rightarrow p$ across-the-board.
- But saying that presuppositions are admissibility conditions does not merit the conclusion that $A \rightarrow p$ is the presupposition of $A \rightarrow B_p$.
- The actual presuppositions of a conditional are themselves context dependent. We should be able to state when they are satisfied without making any context independent predictions about what they are.

From projection to admissibility

- When does a conditional require a context to be of type $c \models p$ or type $c \not\models p$ but $c \cup A \models p$?
 - This is **not** the same as the projection problem; it is the problem of accounting for the role of context in determining what an expression presupposes.
 - Accounts that have attempted to answer this question rely typically on pragmatic considerations related to e.g. the conditional independence of p relative to A (van Rooij 2007), plausibility (Beaver 2001), etc.

The plot

Question 1

What explains the *lack* of presupposition projection (e.g. as in (3))?

 Are there "inadmissibility" conditions that we can identify that regulate presupposition projection from complex sentences?

Epistemic defensibility

a context cannot satisfy a presupposition p if $c \cup A \models I_s[p]$

$$I_{S}[p] \equiv \neg B_{S}[p] \wedge \neg B_{S} \neg [p]$$

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Basic ED •00000000

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- 5. S holds an inconsistent epistemic state if for $\{\phi_1, \dots, \phi_n\}$, $B_{S}[\phi_{1} \text{ and } \dots \text{ and } \phi_{n}]$ is inconsistent.
- 6. Typically, A in $A \rightarrow B$ is a mere supposition and S is taken to be ignorant/uncertain about it: $\neg B_S \neg [A] \land \neg B_S [A]$ (or $I_S [A]$).

Case 1: $A \rightarrow B_n$ and $A \not= \not= p$

Epistemic defensibility

if speaker S is ignorant about proposition ϕ , a complex sentence will not presuppose ϕ , since, if it did, the speaker would have to be assumed to hold an inconsistent epistemic state.

Basic FD 00000000

In a context c where John has a sister \notin c:

- (5) If J has free time this afternoon, he'll pick up his sister.
 - → I has a sister
 - → If I has free time. I has a sister.
- ST's Prediction: John has free time → John has a sister
- **Current prediction**: John has a sister

$$\neg B_{S}[A] \wedge \neg B_{S} \neg [A]$$

If Kipchoge is participating, he will stop running. \rightsquigarrow K is running

Basic ED 00000000

• By assumption $p \in CG$ and $CG \subseteq B_S$, it follows that $B_S[p]$.

Case 2:
$$A \rightarrow B_p$$
 and $p \models A$

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- By assumption $p \in CG$ and $CG \subseteq B_S$, it follows that $B_S[p]$.
- Since $p \models A$, it follows that $B_S[A]$.

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- (9) If Kipchoge is participating, he will stop running. \rightsquigarrow K is running
- By assumption $p \in CG$ and $CG \subseteq B_S$, it follows that $B_S[p]$.
- Since $p \models A$, it follows that $B_S[A]$.
- $B_S[A]$ contradicts $I_S[A]$ conveyed by S's uttering of $A \to B_p$: $I_S[A] \models \neg B_S[A]$, so $\neg B_S[A] \land B_S[A] = \bot$.

Case 2: $A \rightarrow B_p$ and $p \models A$

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- Thus, uttering $A \rightarrow B_p$ where $p \models A$ is **epistemically indefensible**; pmust not project.

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- Thus, uttering $A \rightarrow B_p$ where $p \models A$ is **epistemically indefensible**; pmust not project.
- The urge to preserve the speaker's epistemic state consistent trumps the possibility of taking the speaker to presuppose p in the context.

Basic ED

Case 3: $A \rightarrow B_p$ and $p \models A$

 $B_{S}[A]$

- Not all As in conditionals need convey ignorance; here B_S[A]
- · Projection varies accordingly.

- (10) a. Sue is finally participating!
 - b. Well, if Sue is participating, she will stop running.
 → Sue is running
- (11) a. Sue isn't participating!
 - b. Well, if Sue isn't participating, she will regret not running.→ Sue isn't running

Case 4: $A \rightarrow B_p$ and $A \equiv p$

- (12) If Liz is in Berlin, Bill will discover that she is there. → Liz is in Berlin.
- S considers both A and $\neg A$, leading to ignorance/uncertainty (in particular $\neg B_S[A]$ and $\neg B_S \neg [A]$), and this precludes projecting p.

Basic FD 000000000

• If it did, $B_S[p] \land \neg B_S[A] = \bot$, since $B_S[p] \equiv B_S[A]$.

If Liz is in Berlin, Bill will discover that she is visiting Europe. → Liz is visiting Europe.

Basic FD 000000000

- A entails p, but p entails neither A nor $\neg A$.
- Both $\neg A$ and A are epistemically accessible for S; $P_S[A] \land P_S \neg [A]$.
- No conflict arises between $B_S[p]$ and $\neg B_S[A] \land \neg B_S \neg [A]$, p projects.

Disjunctions require obligatory compatibility with the truth and falsity of each disjunct; e.g. $\neg B_{\varsigma}[A] \land \neg B_{\varsigma} \neg [A]$.

Basic FD 000000000

• If p projected, $B_S[p]$, then $B_S \neg [A]$ and $\neg B_S \neg [A] \land B_S \neg [A] = \bot$.

- Either Liz isn't in Berlin or Bill will discover that she's staying near (14)Brandenburg Gate.

However



- Unexpected projection is still unexpected!
 - (6) #John was limping earlier; I don't know why. Maybe he has a stress fracture. I don't know if he plays any sports. However, if he has a stress fracture, then he'll stop running cross-country now.

Basic FD 000000000

- (7) ✓ John was limping earlier; I don't know why. Maybe he has a stress fracture. I don't know if he plays any sports. If he has a stress fracture, then he'll stop running cross-country now.
- **X** Pragmatic strengthening No strengthening is expected; (i) the conditional presupposition is perfectly fine and (ii) strengthening leads to infelicity.
- **X** Pragmatic weakening Weakening doesn't happen precisely there where it is expected to happen.

Question 1

What explains the *lack* of presupposition projection (e.g. as in (3))?

Basic FD 00000000

Presuppositions cannot project if they "cause pragmatic embarrassment" (except when they do...)

Epistemic defensibility

don't project your presuppositions if in doing so you embarrass yourself by declaring that you hold an inconsistent epistemic state!

Missing presuppositions

Question 2

What happens to presupposed meanings that do not project?

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Hunch

ST got this right: presuppositions that don't project globally are conditionalized to the antecedent clause (in conditionals) or the negation of first clause (in disjunctions) it entails.

• If the truth of the antecedent A cannot be settled, the truth of p is interpreted as being contingent on the truth of A.

Missing presuppositions

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- If the truth of the antecedent A cannot be settled, the truth of p is interpreted as being contingent on the truth of A.
- Sometimes, presuppositions *are* equivalent to Karttunen's minimal admissibility conditions that contexts require of presuppositional sentences (i.e. $c \cup A \models p \text{ or } c \models A \rightarrow p$).

- (15) If Liz is in Berlin, Bill will discover that she's staying near Brandenburg Gate.
 - a. \rightsquigarrow Liz is staying near Brandenburg Gate
 - b. → If Liz is in Berlin, she is staying near Brandenburg Gate

- If Liz is in Berlin, Bill will discover that she's staying near Brandenburg Gate.
 - a. → Liz is staying near Brandenburg Gate
 - b. → If Liz is in Berlin, she is staying near Brandenburg Gate

- But why conditionalization?
 - ▶ In conditionals, p is contingent on A, which is uncertain to S.
 - ▶ The dependence on an uncertain A—together with ED—explains why p does **not** project.
 - But it does **not** explain presupposition conditionalization.

- What we need to know in order to predict whether a context will satisfy p in $A \rightarrow B_p$ includes a number of semantic relations:
 - ▶ Between *c* and *p*.
 - ▶ Between A and p.
 - ▶ Between the inferences invited by $A \rightarrow B_p$ in c and p.

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- Echoing Karttunen, we won't be able to tell what $A \rightarrow B_p$ actually presupposes in isolation.
 - ▶ We know it *could* presuppose $A \rightarrow p$.
 - ▶ We know it *could* presuppose *p*.
 - ▶ It may presuppose other things.

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 - ▶ We know it *could* presuppose $A \rightarrow p$.
 - ▶ We know it *could* presuppose *p*.
 - ▶ It may presuppose other things.
- Conditionals are prone to invite a family of different inferences (including $I_S[A]$). Do other inferences sanction the availability of conditionalization?

Towards conditional projection: additional conditions

- What if an additional condition X for p is provided? In that case p is felt to be conditionalized to X too.
 - (16) If Liz is in Berlin, Bill will discover that she's near Brandenburg Gate. Unless she is staying with her friend Sam. In that case she'll be staying in Kreuzberg.
 - → If Liz is in Berlin [and she is not staying with Sam], she is staying near Brandenburg Gate.
- The whole mini-discourse in (16) that is felt to presuppose the conditional presupposition.

Towards conditional projection: world knowledge

- What other factors may affect the way conditionals are felt to project?
 - There are cases where it is the first clause that, together with one or more contextual premises, entails the presupposition carried by the second clause.
 - ▶ The presupposition does not entail the first clause.
 - ▶ Nevertheless, a conditional presupposition arises.
 - (17) If Tom doesn't exercise, he will regret getting a bypass
 - ⋄ Tom will get a bypass
 - → If Tom doesn't exercise, he will get a bypass

Epistemic Defensibility would allow default projection.

Hunch

A is felt to provide the only necessary and sufficient condition that matters to satisfy the presupposition. H would infer that, if Tom has to get a bypass, it must be the case that he did not exercise:

- ▶ If Tom doesn't exercise, he gets a bypass.
- If Tom exercises, he doesn't get a bypass.

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- ▶ If Tom doesn't exercise, he gets a bypass.
- ▶ If Tom exercises, he doesn't get a bypass.
- There is an *inferrable* **symmetric entailment** between A and p.
- But if so, p entails A and p must not project (for reasons discussed above).

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A is felt to provide the only necessary and sufficient condition that matters to satisfy the presupposition. H would infer that, if Tom has to get a bypass, it must be the case that he did not exercise:

- ▶ If Tom doesn't exercise, he gets a bypass.
- ▶ If Tom exercises, he doesn't get a bypass.
- There is an *inferrable* **symmetric entailment** between A and p.
- lacktriangle But if so, p entails A and p must not project (for reasons discussed above).
 - As a result, for reasons still intuitively appealing but unclear, the presupposition is conditionalized.
- This conditionalization does **not** follow from world knowledge; it follows from a perfected interpretation of the conditional (an inference that turns \rightarrow into \leftrightarrow).

- Like before, contextual premises may be overriden by additional information.
- If the sentence is followed by a continuation that provides a *different* sufficient condition for the presupposition, conditionalization disappears.
 - (18) If Tom doesn't exercise, he will regret getting a bypass. But if he does exercise, he will have done everything he could and he won't regret it.
 - → Tom will get a bypass.
- The mini-discourse does not support an interpretation where exercising is the single sufficient condition for getting a bypass. I.e. no conditional perfection is supported. As a result, *p* projects.

Consequence of conditional perfection

- ◆ Perfection ~ no projection!
 - There is a partial inverse relation between perfection and (unconditional, global) projection: the more likely a perfected interpretation of a conditional with a single sufficient condition is, the less likely projection is.
 - Why? Because perfection conveys that S cannot settle antecedent A
 and so p cannot project, as it would contradict the uncertainty of
 whether A is the case.
 - This is empirically testable: presuppositions in *B* should project globally unless
 - one of the conditions in Cases #1 throuth #6 above are met, and
 - ▶ the statement does not allow a perfected interpretation.

Question 2

What happens to presupposed meanings that do not project?

- They are interpreted conditionally, minimally relative to the antecedent A of the conditional, and possibly relative to further contextual premises.
- Further inferences drawn from the conditional itself (i.e. perfection) modulate how likely it is to project (un-)conditionally.

Conclusion

- 1 The principle of Epistemic Defensibility—i.e. that speakers present themselves as being consistent in their beliefs—acts as a constraint which prevent the projection of presuppositions in compound sentences.
- Presuppositions that do not project are conditionalized to some condition (typically the antecedent clause) in conditional statements.
- ③ In conditional statements, antecedents might be taken to provide sufficient conditions, and this can help explaining the conditionalization of the presuppositions that do not project.
- 4 If so, conditionalization of p is inferable and thus different from they way that ST regard conditional presuppositions (i.e. p is not necessarily a semantic conditional presupposition).

Cf. Gazdar (1979)

- Epistemic Defensibility is directly inspired by Gazdar's (1979) view that clausal implicatures can override potential presuppositions.
- See criticisms in Beaver (2001), van der Sandt (2010), a.o.
- What matters here is not so much whether p is the case, but whether $B_s[p]$. It is the speaker's felt epistemic attitude towards p that "makes it or breaks it."
- This is different from simply calculating implicatures and filtering "possible" or "potential" presuppositions out: contextually available information has a much more central role here than in Gazdar (1979).

- The *actual* presuppositions of a conditional are themselves context dependent. We should be able to state *when* they are satisfied without making any context independent predictions about *what* they are.
- Today: an attempt to contribute to this project are stating when presuppositions *cannot/should not* be satisfied in context.
- ED is ultimately a "top-down" constraint on presupposition projection (not necessarily part of the theory of presupposition projection).

Thanks!

mendia@cornell.edu

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