

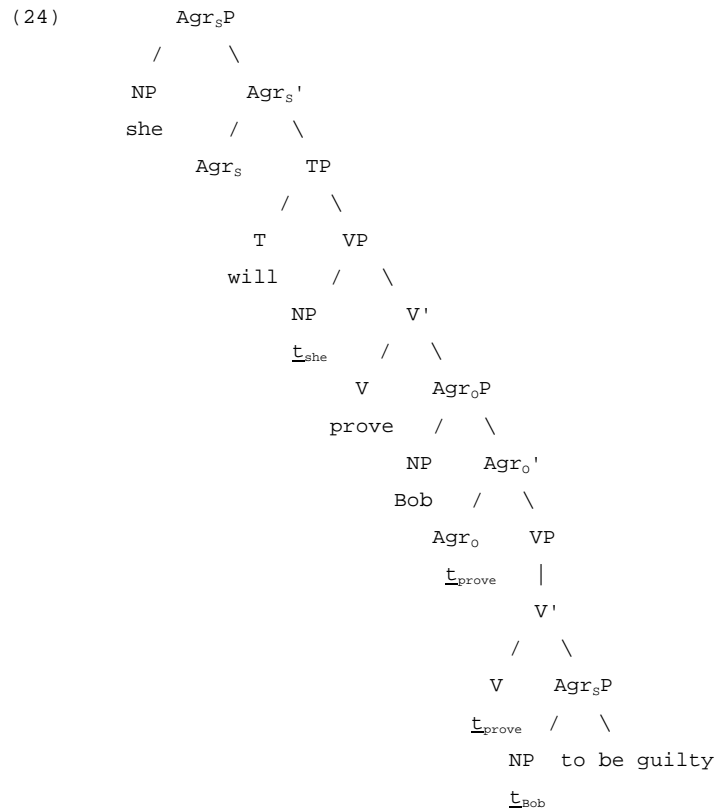
Subjects, Objects, and the EPP

Howard Lasnik

- (1) The DA proved [two men to have been at the scene of the crime] during each other's trials
- (2) The DA proved [no suspect_i to have been at the scene of the crime] during his_i trial
- (3) The DA proved [noone to have been at the scene] during any of the trials
- (4) ?*The DA proved [that two men were at the scene of the crime] during each other's trials
- (5) ?*The DA proved [that no suspect_i was at the scene of the crime] during his_i trial
- (6) ?*The DA proved [that noone was guilty] during any of the trials
- (7) The DA accused two men during each other's trials
- (8) The DA discredited no suspect_i during his_i trial
- (9) The DA cross-examined none of the witnesses during any of the trials
- (10) Which book that John_i read did he_i like
- (11) *He_i liked every book that John_i read
- (12) *I don't remember who thinks that he_i read which book that John_i likes
- (13) Chomsky (1981): S-structure is crucial to at least one of the binding conditions, Condition C.
- (14) Barss (1986) draws the same conclusion for Condition A, based on examples like the following:
- (15) John_i wonders which picture of himself_i Mary showed to Susan
- (16) *John_i wonders who showed which picture of himself_i to Susan
- (17) Under the minimalist assumption that there is no level of S-structure, the LF operations QR and wh-movement don't exist or they apply in such a way that binding possibilities don't change.
- (18) Lasnik and Saito (1991) and den Dikken (1995) draw the same conclusion about the 'expletive replacement' operation proposed by Chomsky (1986):
- (19) *The DA proved [there to have been two men at the scene of the crime] during each other's trials
- (20) *The DA proved [there to have been no suspect_i at the scene of the crime] during his_i trial
- (21) *The DA proved [there to have been noone at the scene] during any of the trials

(22) Under the 'split-VP' hypothesis of Koizumi (1993) and Koizumi (1995):

(23) She will prove Bob to be guilty



- (25) If the adverbials in (1)-(3) are attached in the vicinity of the lower matrix VP, the binding and licensing receive a natural account.
- (26) It is now natural to assume that the 'EPP' feature driving raising to 'subject position' resides in Agr, hence is also responsible for raising to 'object position', under the assumption of Chomsky (1991) that 'Agr_s' and 'Agr_o' are merely mnemonic.
- (27) An additional argument for overt raising of an object or an ECM subject; Pseudogapping as VP ellipsis (Jayaseelan (1990)), with the remnant having raised to Spec of Agr_o
- (28) Mary hired John, and Susan will ~~hire~~ Bill
- (29) The DA proved Jones (to be) guilty and the Assistant DA will ~~prove~~ Smith (to be) guilty

- (30) Unaccusatives show similar behavior, both for binding and for Pseudogapping:
- (31) There arrived two knights on each other's horses
Uriagereka (1988)
- (32) ?There arrived an instructor but there didn't ~~arrive~~ a professor
- (33) So object shift is possible. Is it obligatory?
- (34) *Joan believes him_i to be a genius even more fervently than Bob_i does
- (35) Joan believes he_i is a genius even more fervently than Bob_i does
Postal (1974)
- (36) But there are arguments that object shift does not always take place.
- (37) ?*Who was [a picture of t] selected
- (38) Who did you select [a picture of t]
- (39) If object and subject both raise overtly, to [Spec, Agr₀] and [Spec, Agr_s] respectively, the CED cannot distinguish (37) from (38).
Branigan (1992)
- (40) On the other hand, as already noted in Lasnik (1995), when the object is a Pseudogapping remnant, extraction from it is seriously degraded:
- (41) Bill selected a painting of John, and Susan should ~~select~~ a photograph of Mary
- (42) ?*Who will Bill select a painting of, and who will Susan ~~select~~ a photograph of
- (43) The special prosecutor questioned two aides of a senator during each other's trials
- (44) ??Which senator did the special prosecutor question two friends of during each other's trials
- (45) Which senator did the special prosecutor question two friends of during the president's trial
- (46) The mathematician proved few theorems about Mersenne numbers during any of the lectures
- (47) ??Which numbers did the mathematician prove few theorems about during any of the lectures
- (48) Which numbers did the mathematician prove few theorems about during the conference lectures
- (49) These paradigms argue, contra Lasnik (1995), that when an object has overtly raised it is an island for extraction, and, therefore, since objects are not invariably islands, that such raising is optional.
- (50) Mary called up friends of John
- (51) ?Mary called friends of John up Johnson (1991)

- (52) Who did Mary call up friends of
- (53) ?*Who did Mary call friends of up
- (54) Mary made John out to be a fool
- (55) Mary made out that John is a fool
- (56) Mary made out John to be a fool
- (57) An observation about scope that Zubizarreta (1982) attributes to Chomsky, and that is discussed again by Chomsky (1995) provides further evidence for the optionality of object shift with ECM subjects:
- (58)a (it seems that) everyone isn't there yet
b everyone seems [t not to be there yet]
- (59) Chomsky (p.327) argues as follows: "Negation can have wide scope over the Q in [(58)a]... but not in [(58)b]", concluding that "...reconstruction in the A-chain does not take place, so it appears."
- (60) When the word order makes it clear that a universal ECM subject has raised, that subject cannot be interpreted inside the scope of negation in the complement clause, as seen in (61).
- (61) The mathematician made every even number out not to be the sum of two primes
- (62) The alternative word order for (61), with every even number unraised, does allow narrow scope for the universal:
- (63) The mathematician made out every even number not to be the sum of two primes
- (64) I expected [everyone not to be there yet] Chomsky (1995)
- (65) I believe everyone not to have arrived yet
- (66) I proved every Mersenne number not to be prime
- (67) Everyone is believed not to have arrived yet
- (68) Every Mersenne number was proved not to be prime
- (69) Someone is likely to solve the problem
- (70) It is likely that someone will solve the problem
- (71) No large Mersenne number was proven to be prime
- (72) (71) cannot accurately be paraphrased by (73).
- (73) It was proven that no large Mersenne number is prime
- (74) Noone is certain to solve the problem
- (75) It is certain that noone will solve the problem
- (76) The DA made no defense witnesses out to be credible
- (77) The DA made out that no defense witnesses were credible
- (78) The DA made out no defense witnesses to be credible
- (79) The DA proved no defense witnesses to be credible
- (80) No defense witnesses were proved to be credible by the DA

- (81) Note that if the ECM subject has to be 'high' in order to license some element in the higher clause, then the lower reading for that ECM subject becomes impossible:
- (82) The DA proved no defense witnesses to be credible during any of the trials
- (83) *Joan believes him_i to be a genius even more fervently than Bob_j does
- (84) It is not uncommon for 'object shift' to be obligatory with pronouns in a language even when it is optional with lexical NPs.
- (85) Mary made John out to be a fool
- (86) Mary made out John to be a fool
- (87) Mary made him out to be a fool
- (88) *Mary made out him to be a fool
- (89) The detective brought him in
- (90) *The detective brought in him Chomsky (1955)
- (91) Tanaka (1999) claims that when a simple sentence contains both an interrogative direct object and an interrogative temporal expression, it is necessarily the former that undergoes wh-movement:
- (92) ?Whom did the DA accuse during which trial
- (93) ?*During which trial did the DA accuse whom
- (94) Tanaka observes that Superiority, as subsumed under the Minimal Link Condition, accounts for this, but only if the direct object is necessarily higher than the temporal adverb.
- (95) What did John buy when
- (96) When did John buy what Bošković (1997)
- (97) ?Whom did the DA prove to be innocent during which trial
- (98) ?*During which trial did the DA prove whom to be innocent Tanaka (1999)
- (99) Whom did John prove to be guilty when
- (100) ?*When did John prove whom to be guilty Bošković (1997)
- (101) Whom did the DA make out to be guilty when
- (102) ?*When did the DA make whom out to be guilty
- (103) ??When did the DA make out whom to be guilty
- (104) ?*When did you call whom up
- (105) When did you call up whom
- (106) One way to make the raising optional might be to abandon the idea that Agr₀ is the same item as Agr_s, assuming, instead, that only the latter obligatorily has an EPP feature.

- (107) Some of the discussion in Chomsky (1995, p.350) hints at an alternative possibility. Chomsky reasons that "If Agr has no strong feature, then PF considerations, at least, give no reason for it to be present at all, and LF considerations do not seem relevant." He thus suggests, in passing, that "Agr exists only when it has strong features."
- (108) Along these lines, suppose, then, that the optionality of raising is the optionality of Agr₀.
- (109) This leaves us with the question of why Agr_s is obligatory. This is exactly the question of why the standard EPP holds.

References

- Bošković, Željko. 1997. *The syntax of nonfinite complementation: An economy approach*. Cambridge, Mass.: MIT Press.
- Branigan, Philip. 1992. *Subjects and complementizers*. Doctoral dissertation, MIT, Cambridge, Mass.
- Bresnan, Joan W. 1972. *Theory of complementation in English syntax*. Doctoral dissertation, MIT, Cambridge, Mass.
- Chomsky, Noam. 1955. The logical structure of linguistic theory. Ms. Harvard University, Cambridge, Mass. and MIT, Cambridge, Mass. [Revised 1956 version published in part by Plenum, New York, 1975; University of Chicago Press, Chicago, 1985].
- Chomsky, Noam. 1981. *Lectures on government and binding*. Dordrecht: Foris.
- Chomsky, Noam. 1986. *Knowledge of language*. New York: Praeger.
- Chomsky, Noam. 1991. Some notes on economy of derivation and representation. In *Principles and parameters in comparative grammar*, ed. Robert Freidin, 417-454. Cambridge, Mass.: MIT Press.
- Chomsky, Noam. 1995. Categories and transformations. In *The minimalist program*, 219-394. Cambridge, Mass.: MIT Press.
- den Dikken, Marcel. 1995. Binding, expletives, and levels. *Linguistic Inquiry* 26: 347-354.
- Diesing, Molly. 1996. Semantic variables and object shift. In *Studies in comparative Germanic syntax*, Vol. II, ed. Höskuldur Thráinsson, Samuel David Epstein, and Steve Peter, 66-84. Dordrecht: Kluwer.
- Jayaseelan, Karattuparambil A. 1990. Incomplete VP deletion and gapping. *Linguistic Analysis* 20: 64-81.
- Johnson, Kyle. 1991. Object positions. *Natural Language and Linguistic Theory* 9: 577-636.
- Kayne, Richard. 1985. Principles of particle constructions. In *Grammatical representation*, ed. Jacqueline Guéron et al., 101-140. Dordrecht: Foris.
- Kim, Jeong-Seok. 1997. *Syntactic focus movement and ellipsis: A minimalist approach*. Doctoral dissertation, University of Connecticut, Storrs.
- Koizumi, Masatoshi. 1993. Object agreement phrases and the split VP hypothesis. In *Papers on Case and Agreement I: MIT working papers in linguistics* 18, 99-148.

- Koizumi, Masatoshi. 1995. *Phrase structure in minimalist syntax*. Doctoral dissertation, MIT, Cambridge, Mass.
- Langacker, Ronald W. 1969. On pronominalization and the chain of command. In *Modern Studies in English*, ed. David A. Reibel and Sanford A. Schane, 160-186. Englewood Cliffs, N. J.: Prentice-Hall.
- Larson, Richard K. 1988. On the double object construction. *Linguistic Inquiry* 19: 335-391.
- Lasnik, Howard. 1976. Remarks on coreference. *Linguistic Analysis* 2: 1-22. [Reprinted in *Essays on anaphora*, Howard Lasnik, 90-109. Dordrecht, Kluwer, 1989]
- Lasnik, Howard. 1995. A note on pseudogapping. In *Papers on minimalist syntax, MIT working papers in linguistics* 27, 143-163. [Reprinted, with minor revisions, in Lasnik (1999) *Minimalist Analysis*, Blackwell.]
- Lasnik, Howard. 1998a. On a scope reconstruction paradox. Ms. University of Connecticut. Posted on 'Chomsky Celebration' web page.
- Lasnik, Howard. 1998b. Some reconstruction riddles. In *University of Pennsylvania Working Papers in Linguistics* 5(1), 83-98.
- Lasnik, Howard. In press. Chains of arguments. In *Working minimalism*, ed. Samuel D. Epstein and Norbert Hornstein. Cambridge, Mass.: MIT Press.
- Lasnik, Howard, and Mamoru Saito. 1991. On the subject of infinitives. In *Papers from the 27th Regional Meeting of the Chicago Linguistic Society, Part I: The general session*, ed. Lise M. Dobrin, Lynn Nichols, and Rosa M. Rodriguez, 324-343. Chicago Linguistic Society, University of Chicago, Chicago, Ill. [Reprinted, with minor revisions, in Lasnik (1999) *Minimalist Analysis*, Blackwell.]
- McCawley, James D. 1988. Review article on Knowledge of language: Its structure, origin, and use. *Language* 64: 355-365.
- Postal, Paul M. 1974. *On raising: One rule of English grammar and its theoretical implications*. Cambridge, Mass.: MIT Press.
- Takahashi, Daiko. 1994. *Minimality of movement*. Doctoral dissertation, University of Connecticut, Storrs.
- Tanaka, Hidekazu. 1999. Raised objects and superiority. *Linguistic Inquiry* 30: 317-325.
- Uriagereka, Juan. 1988. *On government*. Doctoral dissertation, University of Connecticut, Storrs.
- Zubizarreta, Maria Luisa. 1982. *On the relationship of the lexicon to syntax*. Doctoral dissertation, MIT, Cambridge, Mass.