Agreement with possessed direct objects in Hungarian

An experimental approach

^aAndrás Bárány, ^bÁdám Szalontai

^aReCoS/DTAL, University of Cambridge,

^bResearch Institute for Linguistics, Hungarian Academy of Sciences

SinFonIJA 8, Ljubljana, 25 September 2015



Overview

Intro: Object agreement and possessed NPs

The data

Surveys

Results

Intro: Object agreement and possessed NPs

(1) a. Mari lát egy kutyá-t.
M. see.3sG a dog-ACC
'Mari sees a dog.'

- (1) a. Mari lát egy kutyá-t.
 M. see.3sG a dog-ACC
 'Mari sees a dog.'
 - b. Mari lát-ja a kutyá-t.
 M. see-3SG.OBJ the dog-ACC
 'Mari sees the dog.'
 - Roughly sensitive to definiteness of the DO

- (1) a. *Mari lát* egy kutyá-t.
 M. see.3SG a dog-ACC
 'Mari sees a dog.'
 - b. Mari lát-ja a kutyá-t.
 M. see-3SG.OBJ the dog-ACC
 'Mari sees the dog.'
 - Roughly sensitive to definiteness of the DO
 - Possessed direct objects are an exception

- (1) a. *Mari lát egy kutyá-t*.

 M. see.3sG a dog-ACC

 'Mari sees a dog.'
 - b. Mari lát-ja a kutyá-t.
 M. see-3SG.OBJ the dog-ACC
 'Mari sees the dog.'
 - Roughly sensitive to definiteness of the DO
 - Possessed direct objects are an exception
 - They can be indefinite yet require agreement

- (1) a. *Mari lát egy kutyá-t*.

 M. see.3sG a dog-ACC

 'Mari sees a dog.'
 - b. Mari lát-ja a kutyá-t.
 M. see-3SG.OBJ the dog-ACC
 'Mari sees the dog.'
 - Roughly sensitive to definiteness of the DO
 - Possessed direct objects are an exception
 - They can be indefinite yet require agreement
 - Standard Hungarian: all possessed DOs agree

- (1) a. *Mari lát* egy kutyá-t.
 M. see.3SG a dog-ACC
 'Mari sees a dog.'
 - b. Mari lát-ja a kutyá-t.
 M. see-3SG.OBJ the dog-ACC
 'Mari sees the dog.'
 - Roughly sensitive to definiteness of the DO
 - Possessed direct objects are an exception
 - They can be indefinite yet require agreement
 - Standard Hungarian: all possessed DOs agree
 - But: dialectal variation?

Questions

Questions

What kind of variation do we find?

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

Methods and results

Series of online surveys

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

- Series of online surveys
- Acceptability judgments with and without contexts

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

- Series of online surveys
- Acceptability judgments with and without contexts
- Forced choice tests with and without contexts

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

- Series of online surveys
- Acceptability judgments with and without contexts
- Forced choice tests with and without contexts
- Speakers treat all possessed DOs alike: syntactic trigger?

5/24

This presentation

Questions

- What kind of variation do we find?
- What kinds of factors determine variation?
- What determines object agreement?

Methods and results

- Series of online surveys
- Acceptability judgments with and without contexts
- Forced choice tests with and without contexts
- Speakers treat all possessed DOs alike: syntactic trigger?

▶ ????

The data

Definiteness often a good predictor; not with possessed DOs

- Definiteness often a good predictor; not with possessed DOs
- Indefinite possessed DOs require agreement

- Definiteness often a good predictor; not with possessed DOs
- Indefinite possessed DOs require agreement

```
(2) a. Mari lát/ *lát-ja egy kutyá-t.
M. see.3SG see-3SG.OBJ a dog-ACC
'Mari sees a dog.'
```

- Definiteness often a good predictor; not with possessed DOs
- Indefinite possessed DOs require agreement

- (2) a. Mari lát/ *lát-ja egy kutyá-t. M. see.3SG see-3SG.OBJ a dog-ACC 'Mari sees a dog.'
 - b. Mari lát-ja / %lát egy kutyá-m-at.
 M. see-3SG.OBJ see.3SG the dog-1SG.POSS-ACC
 'Mari sees a dog of mine.'

(3) a. Mari (*a) / egy kutyá-ja Nominative possessor Mari.nom (the) a dog-3sg.poss 'Mari's dog', 'Mari's one dog'

- (3) a. Mari (*a) / egy kutyá-ja Nominative possessor Mari.nom (the) a dog-3sg.poss 'Mari's dog', 'Mari's one dog'
 - b. Mari-nak a/ egy kutyá-ja
 Mari-DAT the a dog-3SG.POSS
 'Mari's dog', 'a dog of Mari's'

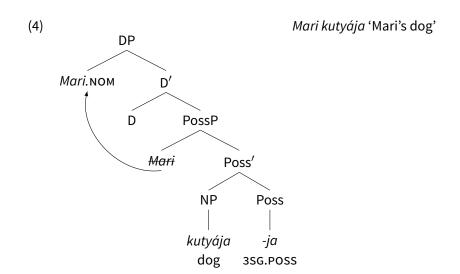
Dative possessor

- (3) a. Mari (*a) / egy kutyá-ja Nominative possessor Mari.nom (the) a dog-3sg.poss 'Mari's dog', 'Mari's one dog'
 - b. Mari-nak a / egy kutyá-ja Dative possessor
 Mari-DAT the a dog-3sg.Poss
 'Mari's dog', 'a dog of Mari's'
 - c. az ő kutyá-ja the s/he.nom dog-3sg.poss 'her/his dog'

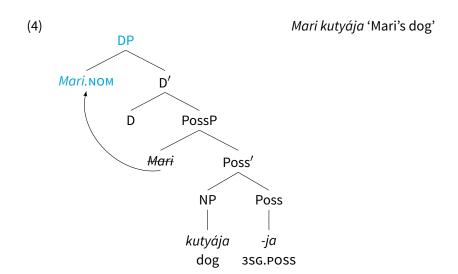
Pronominal possessor

- (3) a. Mari (*a) / egy kutyá-ja Nominative possessor Mari.nom (the) a dog-3sg.poss 'Mari's dog', 'Mari's one dog'
 - b. Mari-nak a / egy kutyá-ja
 Mari-DAT the a dog-3sg.Poss
 'Mari's dog', 'a dog of Mari's'
 - c. az ő kutyá-ja Pronominal possessor the s/he.nom dog-3sg.poss 'her/his dog'
 - Distribution suggests different heights in the NP (Bartos 1999; den Dikken 1999; Dékány 2015)

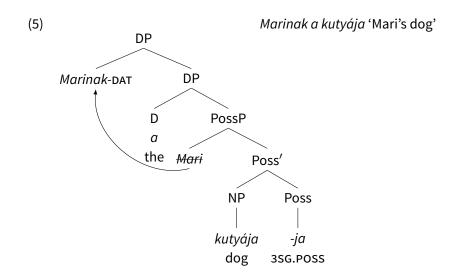
Structures: NOM possessor



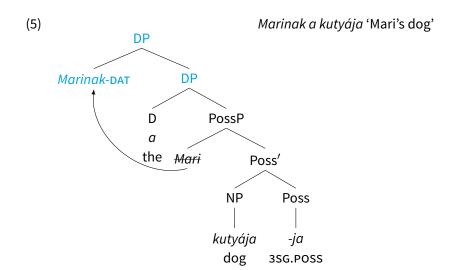
Structures: NOM possessor



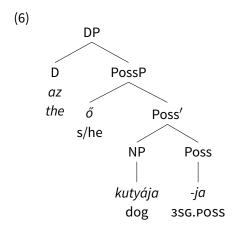
Structures: DAT possessor



Structures: DAT possessor

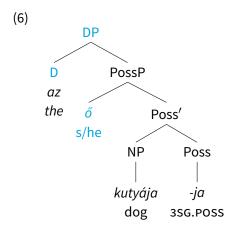


Structures: pronominal possessor



aző kutyája 'her/his dog'

Structures: pronominal possessor



aző kutyája 'her/his dog'

Syntactic and semantic properties

Extraction

Syntactic and semantic properties

Extraction

▶ Dative possessors can be extracted (Szabolcsi 1994)

- (7) a. Mari-nak van kutyá-ja. Mari-DAT is dog-3SG.POSS 'Mari has a dog/dogs.'
 - b.* *Mari* van kutyá-ja.

 Mari.NOM is dog-3SG.POSS

Syntactic and semantic properties

Extraction

- ▶ Dative possessors can be extracted (Szabolcsi 1994)
- Only extracted possessors in definiteness effect-contexts (7a)

- (7) a. Mari-nak van kutyá-ja. Mari-DAT is dog-3SG.POSS 'Mari has a dog/dogs.'
 - b.* *Mari* van kutyá-ja.

 Mari.NOM is dog-3SG.POSS

Syntactic and semantic properties

Extraction

- Dative possessors can be extracted (Szabolcsi 1994)
- Only extracted possessors in definiteness effect-contexts (7a)
- Non-specific reading in (7a)

- (7) a. Mari-nak van kutyá-ja. Mari-DAT is dog-3sG.POSS 'Mari has a dog/dogs.'
 - b.* *Mari* van kutyá-ja.

 Mari.NOM is dog-3SG.POSS

Variation

> Szabolcsi (1994): DOs with extracted possessors show variation

Variation

- Szabolcsi (1994): DOs with extracted possessors show variation
- Semantic agreement? only specific DOs agree

- (8) a. %Chomsky-nak nem olvas-t-ál vers-é-t.

 Chomsky-DAT NEG read-PST-2SG poem-3SG.POSS-ACC

 'You haven't read a poem of Chomsky's.'
 - b. Chomsky-nak nem olvas-t-ad vers-é-t.
 Chomsky-DAT NEG read-PST-2SG.OBJ poem-3SG.POSS-ACC
 'You haven't read a poem of Chomsky's / Chomsky's poem.'

Syntax? DP structure

(Bartos 1999)

- ➤ Syntax? DP structure (Bartos 1999)
- ► Semantics? [DEF] introduces presupposition (Coppock 2013)

- ➤ Syntax? DP structure (Bartos 1999)
- ► Semantics? [DEF] introduces presupposition (Coppock 2013)

Goals of the surveys

- ➤ Syntax? DP structure (Bartos 1999)
- ► Semantics? [DEF] introduces presupposition (Coppock 2013)

Goals of the surveys

Mapping the variation

- ➤ Syntax? DP structure (Bartos 1999)
- ► Semantics? [DEF] introduces presupposition (Coppock 2013)

Goals of the surveys

- Mapping the variation
- Finding out which factors determine variation ...

- ➤ Syntax? DP structure (Bartos 1999)
- ► Semantics? [DEF] introduces presupposition (Coppock 2013)

Goals of the surveys

- Mapping the variation
- Finding out which factors determine variation ...
- ... and agreement

Surveys

Online surveys hosted on http://spellout.net/ibexfarm/

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO
- Forced choice:

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO
- Forced choice:
 - Nominative vs. dative possessors

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO
- Forced choice:
 - Nominative vs. dative possessors
 - Presence vs. absence of determiner

- Online surveys hosted on http://spellout.net/ibexfarm/
- April, May, September 2015: xxx participants
- Acceptability judgments (7 point scale):
 - Subject vs. object agreement
 - Nominative vs. dative possessors
 - Positive vs. negative polarity (semantic effect?)
 - Word order (no effect?)
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO
- Forced choice:
 - Nominative vs. dative possessors
 - Presence vs. absence of determiner
 - Contexts: definite (unique) vs. indefinite (non-unique) reading of the DO

Data: Acceptability judgments

- (9) In literature class, the children were reading Petőfi and Arany.
 - a. Mari olvas-ott Petőfi vers-ét.
 Mari read-3sg.PAST Petőfi.NOM poem-3sg.POSS
 - b. Mari olvas-t-a Petőfi vers-ét.
 Mari read-PAST-3SG.OBJ Petőfi.NOM poem-3SG.POSS
 - c. *Mari olvas-ott Petőfi-nek vers-ét.*Mari read-3sg.PAST Petőfi-DAT poem-3sg.Poss
 - d. *Mari olvas-t-a Petőfi-nek vers-ét.*Mari read-PAST-3SG.OBJ Petőfi-DAT poem-3SG.POSS

intended: 'Mari read Petőfi's poem / a poem by Petőfi.'

Data: Forced choice I, no context

Ismerte a szomszéd nővérét. Ismerte a szomszéd nővérét. Ismerte a szomszéd nővérét. Ismerte a szomszéd nővérét. Ismerte a szomszéd egy nővérét. Ismerte a szomszédnak nővérét. Ismerte a szomszédnak a nővérét. Ismerte a szomszédnak egy nővérét. Ismerte a szomszéd egy nővérét. Ismerte a szomszédnak nővérét.

:

► S/he knew the neighbour's daughter / the daughter of the neighbour / a daughter of the neigbour ...

Data: Forced choice II, def. context

... is a famous writer, but she also painted a landscape.

Péter látta a költő egy tájképét. Péter látta a költő tájképet. Péter látta a költő tájképet. Péter látta a költőnek tájképet. Péter látta a költőnek egy tájképet. Péter látta a költőnek a tájképet. Péter látta a költőnek tájképet.

Data: Forced choice II, def. context

... is a famous writer, but she also painted a landscape.

```
Péter látta a költő egy tájképét.
Péter látta a költő egy tájképét.
Péter látta a költő egy tájképét.
Péter látta a költőnek egy tájképét.
Péter látta a költőnek egy tájképet.
Péter látta a költőnek a tájképet.
Péter látta a költőnek tájképet.
Péter látta a költőnek tájképet.
: : :
```

► Péter saw the painter one landscape / the painter's landscape / the landscape of the painter...

Data: Forced choice III, indef. context

... is a famous writer, but she also painted several landscapes.

```
Péter látta a költő egy tájképét.
Péter látta a költőnek egy tájképet.
Péter látta a költőnek a tájképet.
Péter látta a költőnek a tájképet.
Péter látta a költőnek tájképet.

Péter látta a költőnek tájképet.
```

Data: Forced choice III, indef. context

... is a famous writer, but she also painted several landscapes.

```
Péter látta a költő egy tájképét.
Péter látta a költő egy tájképét.
Péter látta a költő egy tájképét.
Péter látta a költőnek egy tájképét.
Péter látta a költőnek egy tájképet.
Péter látta a költőnek a tájképet.
Péter látta a költőnek tájképet.
Péter látta a költőnek tájképet.

Péter látta a költőnek tájképet.
```

► Péter saw the painter one landscape / the painter's landscape / the landscape of the painter...

Object agreement is always better than subject agreement. (sig)

- Object agreement is always better than subject agreement. (sig)
- Subject agreement is always judged fairly badly.

- Object agreement is always better than subject agreement. (sig)
- Subject agreement is always judged fairly badly.

Þ

Acknowledgements

Thank you!

The first author's research is supported by ERC Grant No. 269752 "Rethinking Comparative Syntax". Thanks to: Theresa Biberauer, Anders Holmberg, Georg Höhn, Ian Roberts, Michelle Sheehan, and Jenneke van der Wal.

References I

- Bartos, Huba (1999). "Morfoszintaxis és interpretáció: A magyar inflexiós jelenségek szintaktikai háttere [Morphosyntax and interpretation: the syntactic background of Hungarian inflection]". PhD thesis. Budapest.
- Coppock, Elizabeth (2013). "A semantic solution to the problem of Hungarian object agreement". *Natural Language Semantics* 21, 345–371.
- Dékány, Éva (2015). "The syntax of anaphoric possessives in hungarian". *Natural Language & Linguistic Theory*. DOI: 10.1007/s11049-014-9278-0.
- den Dikken, Marcel (1999). "On the structural representation of possession and agreement". In: Crossing Boundaries: Advances in the Theory of Central and Eastern European Languages. Ed. by István Kenesei. Amsterdam/Philadelphia: John Benjamins, 137–178.
- Szabolcsi, Anna (1994). "The noun phrase". In: *The Syntactic Structure of Hungarian*. Ed. by Ferenc Kiefer and Katalin É. Kiss. Vol. 27. Syntax and Semantics. New York: Academic Press, 179–274.