

Appendices: Processing ambiguities in attachment and pronominal reference

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A Short critical region analyses for pronoun conditions conditions, Experiment 1

Note: * indicates a significant ambiguity advantage.

	Ambig	NP1	NP2
First pass time	493 (23)	549 (27)	512 (23)
Go-past time*	606 (34)	690 (43)	679 (32)
Total time*	883 (42)	986 (50)	962 (51)

B Experimental items

B.1 *Experimental items, Experiment 1*

Within curly brackets ({}), the first nouns were used in ambiguous conditions. The second noun was changed to form the high conditions and the first noun was changed to form the low conditions. Between hash signs (#), the first option was used in the PP conditions and the second in the pronoun reference conditions.

- i. We complimented the {maid/butler} of the {actress/actor} #with eyeshadow on/when she was in the yard#, and it went over well.
- ii. We called the {secretary/husband} of the {businesswoman/businessman} #in a skirt/when she was on vacation#, but there was no answer.
- iii. The kids waved to the {grandmother/grandfather} of the {stewardess/sheriff} #in a dress/when she was leaving# ,but were ignored.
- iv. I e-mailed the {receptionist/lawyer} of the {wedding planner/private detective} #with eyeshadow on/after she had left# to check in on things.
- v. We spoke to the {babysitter/brother} of the {girl/boy} #in a skirt/when she got home# in order to resolve a conflict.
- vi. I googled the {masseur/mechanic} of the {boutique owner/baseball player} #in a dress/after she gave me a card# to read the reviews.
- vii. We said hello to the {sister/husband} of the {fashion model/police sergeant} #with lipstick on/when she arrived#, but didn't get a response.
- viii. I admired the {daughter/boyfriend} of the {romance novelist/history professor} #with high heels on/when she was dancing#, but didn't let it show.
- ix. The guards discussed the {grandmother/grandfather} of the {princess/prince} #with a tiara on/after she passed away#, but only in whispers.
- x. We called the {hairdresser/dentist} of the {cheerleader/salesman} #with lipstick on/after she left school#, mostly to ask about prices.
- xi. We chatted with the {housekeeper/landscaper} of the {heiress/millionaire} #with high heels on/when she visited New York#, and it was nice.

- xii. We hung out with the {aunt/boyfriend} of the {beautician/sportscaster} #with makeup on/when she was at the salon#, and it was fun.
- xiii. I smiled at the {nurse/grandson} of the {elderly woman/elderly man} #with a purse/when she was in the courtyard#, and got a smile back.
- xiv. The TV show offended the {great-aunt/great-uncle} of the {manicurist/neurologist} #with mascara on/when she first saw it#, which was no surprise.
- xv. The press overheard the {nephew/niece} of the {congressman/congresswoman} #with a beard/after he gave a speech#, but it was very boring.
- xvi. We saw the {mother/father} of the {knitter/mailman} #with a purse/when she brought cookies over#, but not for very long.
- xvii. I saw the {brother/mother} of the {groom/bride} #in a tuxedo/when he walked into the church#, but I didn't say anything.
- xviii. We met the {brother/sister} of the {waiter/waitress} #with a beard/when he visited the restaurant# but we didn't talk for long.
- xix. I met the {uncle/aunt} of the {trucker/nanny} #in boxer shorts/when he was home for a visit#, and it was pretty awkward.
- xx. We talked to the {landlord/landlady} of the {lawyer/ballerina} #in a tuxedo/when he showed us an apartment#, and had an interesting chat.
- xxi. I interviewed the {son/ex-wife} of the {soldier/nurse} #with sideburns/after he led the protest#, and it appeared in the paper.
- xxii. The police investigated the {son/niece} of the {wrestler/cheerleader} #in boxer shorts/after he fled#, because of possible fraud.
- xxiii. We walked by the {boss/daughter} of the {engineer/florist} #with a goatee/when he was leaving#, and commented on the weather.
- xxiv. The media questioned the {doctor/nutritionist} of the {priest/sunbather} #with sideburns/when he got fired#, mostly about exercise.
- xxv. I met the {supervisor/ex-girlfriend} of the {carpenter/nurse} #with a goatee/when he was at the bar#, but only briefly.
- xxvi. The article criticized the {father/mother} of the {weight lifter/figure skater} #with a beard/when he insulted Madonna#, but nobody cared.
- xxvii. The detectives interrogated the {butler/maid} of the {murderer/murderess} #with a mustache/when he got home# to get some answers.

- xxviii. We mocked the {manager/girlfriend} of the {computer technician/bank teller} #with a beard/ he was making coffee#, but nobody got upset.
- xxix. I followed the {driver/wife} of the {actor/actress} #with a mustache/when he ran away#, but I got lost.
- xxx. The IRS needed the {accountant/mistress} of the {mafioso/showgirl} #with a mustache/when he left the country# for their investigation.

B.2 Experimental items, Experiment 2

Noun Phrases in brackets were substituted to form the three conditions in the experiment discussed in the Materials section of Experiment 2.

- i. {Michael/Jessica} assured {Jessica/Michael/Matthew} that he was prepared for the new job at the factory.
- ii. {Andrew/Rachel} convinced {Rachel/Andrew/Joseph} that he would benefit from the extra help at the snack bar.
- iii. {Tyler/Kayla} told {Kayla/Tyler/David} that he would need a food processor to make that recipe.
- iv. {Robert/Lauren} informed {Lauren/Robert/Justin} that he has to attend Sunday morning mass this week.
- v. {Kyle/Anna} reminded {Anna/Kyle/Cole} that he couldn't eat that lasagna because it wasn't vegetarian.
- vi. {Emily/Jacob} told {Jacob/Emily/Sarah} that she should recruit a new intern for the senate campaign.
- vii. {Brittany/Nicholas} showed {Nicholas/Brittany/Samantha} that she could create high quality designs for even the pickiest clients.
- viii. {Amanda/Daniel} warned {Daniel/Amanda/Hannah} that she couldn't work the morning shift because of her shoulder injury.
- ix. {Olivia/Nathan} warned {Nathan/Olivia/Shelby} that she didn't have all the documents for the immigration official.
- x. {Jennifer/Jonathan} convinced {Jonathan/Jennifer/Victoria} that she was perfect for that position in the foreign services.
- xi. {Tiffany/Cameron} warned {Cameron/Tiffany/Chelsea} that she was unprepared to give a speech at the graduation ceremony.
- xii. {Michelle/Benjamin} told {Benjamin/Michelle/Kaitlyn} that she would need to hire more repairmen.
- xiii. {The Pope/The nun} promised {the nun/the Pope/the Priest} that he would get funding for human rights campaigns.

- xiv. {The little boy/The unhappy old lady} told {the unhappy old lady/the little boy/the unhappy old man} that he shouldn't complain about the weather at the dinner table.
- xv. {The young prince/the revered queen} showed {the revered queen/the young prince/the revered king} that he would be a fine leader of the Tharassian empire.
- xvi. {The policeman/The female cadet} notified {the female cadet/the policeman/the male cadet} that he had received a medal of honor for his ethical conduct.
- xvii. {The elderly gentleman/The young lady} warned {the young lady/the elderly gentleman/the young man} that he was unlikely to be hired by the advertising firm.
- xviii. {The frat brother/The sorority sister} said to {the sorority sister/the frat brother/the teenage boy} that he would get very sick because of the bad wine.
- xix. {The bridesmaid/The groom} warned {the groom/the bridesmaid/the bride} that she might receive an important call during the ceremony.
- xx. {The duchess/The duke} mentioned to {the duke/the duchess/the housemaid} that she needed to send out the invitations for the ball.
- xxi. {The saleswoman/The young man} suggested to {the young man/the saleswoman/the young woman} that she would need to completely redo the most recent inventory.
- xxii. {The waitress/The fireman} told {the fireman/the waitress/the young lady} that she would enjoy any movie that starred Winona Ryder.
- xxiii. {The actress/The spokesman} complained to {the spokesman/the actress/the spokeswoman} that she was perceived as unfriendly and not very charitable.
- xxiv. {The schoolgirl/The headmaster} revealed to {the headmaster/the schoolgirl/the headmistress} that she had won the school raffle for a new snowmobile.