Appendix/Supplementary Materials

Experiment 1

*Experimental sentences (from Hopp, 2014)*

*The same lexical items were used to create the items, as illustrated in (1) below.*

1. a. When the girl was playing, the boy made some funny noises. (Control)

 b. When the girl was playing he made some funny noises. (Pronoun)

 c. When the girl was playing the boy made some funny noises. (Implausible)

 d. When the girl was playing the piano made some funny noises. (Plausible)

1. When the girl drove the mouse/he/the car moved away from the cat.
2. While the audience was applauding the theatre/they/the actor shook and trembled.
3. When the boy drank the girl/she/the milk got angry in the kitchen.
4. While the students sang the teacher/he/the tune forced them to pay attention.
5. When the girl called the phone/he/the boy fell onto the floor.
6. As the man asked the truck/she/the woman made some weird noise/phone calls.
7. When the baby ate the nurse/she/the pie started getting cold.
8. When the girl walked the mother/he/the dog found some coins.
9. When Sue dressed the music/she/the girl stopped all of a sudden.
10. When the doctor read the woman/she/the book lay in his lap.
11. When the cat was climbing the bird/they/the tree lost some feathers/leaves.
12. Because the robber was hiding the customers/they/the jewels disappeared from the store.
13. Before the pilot landed the woman/she/the plane read some magazines/lost some speed.
14. As the dog was fighting the carrot/she/the parrot moved on the counter.
15. When the customer parked the salesman/they/the limousine left for the hotel.
16. When the plane was leaving the woman/she/the airport closed the gate.
17. As the boy was racing the girl/she/the bike smashed into a car.
18. While the children were humming the adults/they/the song stopped playing.
19. Because the woman was baking the man/he/the cake needed some ice cream/icing.
20. After the girl cleaned the woman/he/the kitchen looked more beautiful.
21. When the captain sailed the crew/they/the boat made some turns to the coast.
22. When the horses were running the cow/she/the race became more agitated.
23. While the woman was spinning the crowd/they/the yarn formed a long line.
24. As the teacher advised the lesson/they/the students became more interesting/interested.
25. When the dog was chasing the television/they/the children showed signs of distress.
26. As the lion was hunting the rain/they/the zebra became more violent.
27. When the woman phoned the train/he/the man broke down with an engine failure/with a heart failure.

*Newly created sentences*

1. While the boy was playing the girl/she/the guitar amazed the audience.
2. As the man drove the cat/she/the car sped away at high speed.
3. When the spectators were applauding the stage/they/the singer remained in the spotlight.
4. As the girl drank the boy/he/the tea got served in the restaurant.
5. As the choir sang the conductor/he/the hymn made them lean forward.
6. As the boy called the tea/she/the girl gave him a stir.
7. When the woman asked the radio/he/the man played a commercial.
8. As the child ate the brother/he/the cake remained in the kitchen.
9. As the father walked the daughter/she/the dog ran far ahead.
10. As Molly dressed the lamp/he/the child dropped to the floor.
11. As the woman read the doctor/he/the novel picked up some pace.
12. While the tourist was climbing the goat/they/the mountain glowed in the sunlight.
13. Since the hunter was hiding the hikers/they/the rifle got lost in the woods.
14. When the man landed the stewardess/she/the helicopter took off on the runway.
15. When the cat was fighting the weather/she/the disease began to get worse.
16. As the salesman parked the chauffeur/he/the car continued to run.
17. While the train was leaving the traveller/he/the station declared an emergency.
18. When the driver was racing the passenger/they/the speedboat began a chase.
19. When the singer was humming the lover/he/the melody softened rather quickly.
20. As the wife was baking the husband/he/the bread stayed in the basement.
21. While the child cleaned the weapon/he/the doll sat on the table.
22. As the discoverer sailed the pirate/they/the ship aimed for the harbor.
23. While the rock star was running the fans/they/the show seemed to get bored.
24. When the girl was spinning the tide/they/the wheel began to turn.
25. When the specialist advised the machine/they/the staff misinterpreted the message.
26. While the cat was chasing the house/she/the mouse began to shake and tremble.
27. While the ranger was hunting the trees/they/the animals stood in the forest.
28. As the patient phoned the computer/they/the hospital alerted the security guard.

*Exposure sentences*

*Experimental group*

1. The boy played and he pleased the parents with the music.
2. The girl drove and she entertained the family in the car.
3. The director applauded and he congratulated the orchestra on the performance.
4. The woman drank and she finished the meal with some juice.
5. The actor sang and he ended the show with new songs.
6. The man called and he requested the code number for the account.
7. The officer asked and he wanted a support team for the mission.
8. The sister ate and she scattered many breadcrumbs on the table after dinner.
9. The brother walked and he saw many people with dogs in the street.
10. The nurse dressed and she prepared breakfast for the child.
11. The professor read and he wrote a review of the book in class.
12. The daughter climbed and she reached the summit of the mountain at noon.
13. The thief hid and he hoped the tenants would not miss the jewelry.
14. The president landed and he needed some attention right on the runway.
15. The girlfriend fought and she fended off the assault by the attacker.
16. The bellboy parked and he called the emergency services from the car.
17. The reporter left and he never returned to the building according to the fire brigade.
18. The driver raced and he crashed into a tree near the village.
19. The teenagers hummed and they seemed to be rather loud and out of tune.
20. The cook baked and he served the guests an appetizer.
21. The new maid cleaned and she also did the washing up in the kitchen.
22. The sportsman sailed and he came first in the regatta with his yacht.
23. The athlete ran and he reached the watering station after a mile.
24. The secretary spun and she caught the pedestrian and the dog on the pavement.
25. The boss advised and he suggested to create new jobs for the workers.
26. The hunter chased and he fired a gunshot to warn everyone.
27. The duke hunted and he planned to kill all pheasants in the county.
28. The supplier phoned and he guaranteed the prices for the next 2 years.

*Control group*

1. The boy played the music and it pleased the parents.
2. The family drove the car and it entertained the girl.
3. The orchestra applauded the performance and it congratulated the director.
4. The baby drank the juice and it finished the meal.
5. The band sang new songs and it ended the show.
6. The bank called the man and it requested the code number for the account.
7. The office asked the team and it wanted support for the mission.
8. The infant ate dinner and it scattered many breadcrumbs on the table.
9. The group walked the dog and it saw many people in the street.
10. The nurse dressed the child and it prepared breakfast.
11. The class read the book and it wrote a review for the professor.
12. The dog climbed the mountain and it reached the summit at noon.
13. The rat hid the cheese and it hoped the tenants would not miss it.
14. The president landed the plane and it needed some attention right on the runway.
15. The cat fought the attacker and it fended off the assault.
16. The bellboy parked the car and it called the emergency services automatically.
17. The fire brigade left the building and it never returned to the building according to the reporter.
18. The driver raced the bike and it crashed into a tree near the village.
19. The teenagers hummed a tune and it seemed to be rather loud.
20. The cook baked the pie and it served the guests an appetizer.
21. The new robot cleaned the kitchen and it also did the washing up.
22. The sportsman sailed the yacht and it came first in the regatta.
23. The cow ran a mile and it reached the watering station.
24. The car spun the pedestrian and it caught the dog on the pavement.
25. The plan advised the workers and it suggested to create new jobs.
26. The police chased the hunter and it fired a gunshot to warn everyone.
27. The leopard hunted the pheasants and it planned to kill all in the county.
28. The company phoned the supplier and it guaranteed the prices for the next two years.

Experiment 2

*The same lexical items were used to create the past simple (match/mismatch) and present*

*perfect (match/mismatch) items, as illustrated in (1) below*.

*Experimental sentences*

*Sentences from Roberts and Liszka (2013)*

1. a. Past simple, match/\*mismatch:

 At first, Joe liked Mary’s old school-friends. He doesn’t think they’re boring.

Since he met them, Joe liked Mary’s old school-friends. He doesn’t think they’re

 boring.

 b. Present perfect, match/\*mismatch:

 Since he met them, Joe has liked Mary’s old school-friends. He doesn’t think they’re

 boring.

 \* At first, Joe has liked Mary’s old school-friends. He doesn’t think they’re boring.

2. Initially/Since last week, the cat ate/has eaten only fish. She now also eats meat.

3. Yesterday/Since he moved in, my old neighbour visited/has visited our house. He brought us a cake.

4. When he saw her/Since he first saw her, Sam thought/has thought Jenny was beautiful. However, he’s far too nervous to speak to her.

5. Last week/Since the summer, James went/has gone swimming every day. Now

 he’s getting bored of it.

6. When she was ten years old/Since she was ten years old, Brenda wanted/has wanted to be an actress. She now works in a hospital.

7. Last Friday/Since last Friday, Mark saw/has seen the same film three times. He really loved it.

8. A year ago/For a year now, William met has met his best friend after work every Friday. Now he spends every night with his girlfriend.

 9. Once many years ago/Since he was twenty, Matt was/has been a successful businessman. He now feels unsatisfied with his life.

10. Before her baby was born/Since her baby was born, Jenny wanted/has wanted to escape from her life. She was very stressed out.

11. Three days ago/For the last three days, Tom felt/has felt very unwell. He couldn’t even go to work.

12. Last year/Since last year, Kate studied/has studied French in her spare time. She now wants to learn German.

13. When she first started her job/Since she first started her job, Emma loved/has loved the work very much. It’s not very exciting now.

14. Initially/Since the beginning, the band was/has been very successful. They sold a million records.

15. Last spring/Since spring, Bert planted/has planted many roses in the garden. He wanted to enter into a gardening competition.

16. At Christmas/Since Christmas, Barbara spent/has spent too much money. Her credit card bill was enormous.

17. On his birthday/Since his birthday, Paul met/has met two lovely women. He wants to go out with both of them.

18. Many years ago/For many years now, Judith thought/has thought about joining the army. It’s a dangerous profession.

19. When he first started cooking/Since he first started cooking, Alan enjoyed/has enjoyed making pasta most of all. He now likes making desserts.

20. When he finished university/Since he finished university, Jerry thought/has thought about starting a business. He wanted to be a millionaire.

21. Last month/For the last month, Sandra felt/has felt unhappy at work. She even thought about leaving.

22. At first/For months now, Christine wanted/has wanted to marry Gary. Now she finds him unpleasant.

23. In February/Since February, Ben crashed/has crashed his car four times. He now pays a lot for his insurance.

24. Last year/Since the summer, Michael learnt/has learnt to play poker. He now wants to become a professional.

*Newly created sentences*

1. When Pete was a child/Since Pete was five, he did not like/has not liked spinach. He still thinks it does not taste good.

2. Last month/For the last month, Nadine ate/has eaten no bread. Currently, she eats only vegetables.

3. On their anniversary/Since their anniversary, Randall visited/has visited his parents often. He brought them presents.

4. A year ago/For a year, Gerald thought/has thought being a mechanic was his greatest desire. He is not so sure anymore.

5. When she had enough money/Ever since she had enough money, Amber went/has gone to the cinema regularly. She does not get tired of watching films.

6. When/Ever since he drove his friend's car, Edward wanted/has wanted a car for himself. Now he works hard to afford one.

7. Last Thursday/Since last Thursday, Molly saw/has seen a woman following her. She loves the thrill of being followed.

8. When/Since he was eighteen, David met/has met a girl on the weekends. Today he spends much time thinking about her.

9. Initially/Since the beginning, Jennifer was/has been happy about her new haircut. At the moment she feels really insecure, though.

10. Three years ago/For three years, Andrew wanted/has wanted to get a cat. Today he owns a dog.

11. When/Since she entered the room, Angie felt/has felt nervous about her presentation. She could not get out a word.

12. Before/Since Ray got the new computer, he studied/has studied its manual online. He wants to know how to use it.

13. When/Since Denise and her husband got married, she loved/has loved him with all her heart. They are the perfect couple.

14. When/Since the Millers bought their house, the prices were/have been very low for this area. They sold the house for the same amount yesterday.

15. Last summer/Since last summer, my father planted/has planted many herbs on our balcony. He wanted to watch them grow.

16. On/Since his birthday, the architect spent/has spent hours cleaning his flat. It was not recognizable afterwards.

17. At first/For months, Maureen met/has met a woman whom she became friends with. Now she does not want to see her anymore.

18. When/Ever since he sang his favorite song, Frank thought/has thought he had a great voice. It is not true, though.

19. When/Since she was a child, Karen enjoyed/has enjoyed car rides in the backseat. Today she likes riding a motorcycle better.

20. In/Since April, Malcolm thought/has thought about taking on a job during the holidays. He wanted to save money for a new bike.

21. Many years ago/For many years, Linda felt/has felt like she belonged somewhere else. She thinks she might be happier far from home.

22. Initially/Since he started university, Simon wanted/has wanted to learn Spanish. Still, he finds it pretty difficult.

23. Since last year/Last year, my sister crashed/has crashed her bike into a fence several times. She pays for the damage every month.

24. Since last Christmas/Last Christmas, my grandfather learnt/has learnt how to use a cell phone. He now wants to call me all the time.

*Exposure sentences*

*Experimental group*

1. Last week, Bruno liked the new classmate, but he has since then made other friends than him. Currently they do not even talk to each other.

2. Last month, the teacher taught the class on Friday, but he has since then been ill. Now the class has a new teacher.

3. Yesterday, my grandmother baked a cake, but she has since then not eaten any of it. She is still very hungry at the moment.

4. When she met him, Lucy found Greg appalling, but she has from then on noticed his good sides. They are a couple now.

5. Last week, Tom went hiking, but he has since then not exercised. At the moment he feels a bit chubby.

6. When he was at school, Ron wanted to be a pilot, but he has since then not pursued this idea. Now he is a plumber.

7. Last week, Gina listened to the song 10 times, but she has since then not heard it on the radio. Now she is humming it all the time.

8. A month ago, Herbert drank a pint in the pub every night, but he has since then stopped drinking. His cholesterol is much better today.

9. Several months ago, Trudy was unemployed, but she has since then made a career in journalism. She is a famous writer these days.

10. When they moved into their new home, Helen wanted to stay, but she has since then changed her mind. Now she wants to move out again.

11. Last year, Jim bought tickets for a concert, but the drummer has for months not been able to move his left arm. Now the show is canceled.

12. When her book was published, the author thought it was a great story, but she has since then only sold 50 copies. Today she works as a waitress.

13. Last winter, Olivia received the news that her sister was pregnant, and Olivia has since then had no chance to visit her. Now Olivia is an aunt.

14. Three days ago, Kyle banged his head on a table, and he has ever since had a headache. Today he feels better.

15. Yesterday, Abigail robbed a bank, and she has since then avoided the police. Now she tries to flee to another country.

16. When he was 12, Bill cheated on a test, and he has for years felt bad about it. Today he wants to confess to his parents.

17. Four months ago, Charlotte decided to go on vacation, and she has since then booked a flight and a hotel. Now she is waiting for the summer.

18. Last week, Jack tried calling his friend, but he has since then not been able to reach him. Today he is writing him an e-mail.

19. Thirty years ago, Carol planted a tree in her garden, and she has ever since taken good care of it. Now it is quite tall.

20. A year ago, the janitor heard a strange noise in the cellar, and he has since then been too afraid to go down there. He works in a different place these days.

21. When Charlie dusted the mantlepiece, he found an odd ring, and he has for a while thought about selling it. Nowadays he carries it with him all the time.

22. Last year Joseph reduced the amount of chocolate he ate every day, and he has for the last month cut back on cookies as well. Nowadays he can wear his favorite pants again.

23. Two months ago, Tracy broke her leg in an accident, and she has since then needed

 crutches to walk. The doctors say she can now try without them.

24. The reporter lost his job when he spread lies about a politician, and the reporter has

 for weeks tried to find a new job. Now he considers apologizing.

*Control group*

1. Last week, Bruno liked the new classmate, but he did back then not make a new friend in him. Currently they do not even talk to each other.

2. Last month, the teacher taught the class on Friday, but he did back then not feel well. Now the class has a new teacher.

3. Yesterday, my grandmother baked a cake, but she did back then not eat any of it. She is still very hungry at the moment.

4. When she met him, Lucy found Greg appalling, but she did at the time not notice his good sides. They are a couple now.

5. Last week, Tom went hiking, but he did back then not exercise a lot. At the moment he feels a bit chubby.

6. When he was at school, Ron wanted to be a pilot, but he did back then not think this idea through. Now he is a plumber.

7. Last week, Gina listened to the song 10 times, but she did back then not hear it on the radio. Now she is humming it all the time.

8. A month ago, Herbert drank a pint in the pub every night, but he did back then realize this was too much. His cholesterol is much better today.

9. Several months ago, Trudy was unemployed, and she dreamed back then of a career in journalism. She is a famous writer these days.

10. When they moved into their new home, Helen wanted to stay, but she did at the time not know how annoying the neighbors were. Now she wants to move out again.

11. Last year, Jim bought tickets for a concert, but five months ago the drummer left the group. Now the show is cancelled.

12. When her book was published, the author thought it was a great story, but she had in those days no clue the public did not like it. Today she works as a waitress.

13. Last winter, Olivia received the news that her sister was pregnant, but Olivia had at that time no chance to visit her. Now Olivia is an aunt.

14. Three days ago, Kyle banged his head on a table, and yesterday he went to see a doctor. Today he feels better.

15. Yesterday, Abigail robbed a bank, and she thought at that moment it was a good idea. Now she tries to flee to another country.

16. When he was twelve, Bill cheated on a test, and he did back then not feel bad about it. Today he wants to confess to his parents.

17. Four months ago, Charlotte decided to go on vacation, and she booked at that time a flight and a hotel. Now she is waiting for the summer.

18. Last, week, Jack tried calling his friend, but he was at that moment not able to reach him. Today he is writing him an e-mail.

19. Thirty years ago, Carol planted a tree in her garden, and it was back then pretty small. Now it is quite tall.

20. A year ago, the janitor heard a strange noise in the cellar, and he was at the time too afraid to go down there. He works in a different place these days.

21. When Charlie dusted the mantlepiece, he found an odd ring, and he did back then not think much of it. Nowadays he carries it with him all the time.

22. Last year Joseph reduced the amount of chocolate he ate every day, and he decided at that moment to cut back on cookies as well. Nowadays he can wear his favorite pants again.

23. Two months ago, Tracy broke her leg in an accident, and at that time she needed crutches to walk. The doctors say she can now try without them.

24. The reporter lost his job when he spread lies about a politician, and the reporter did at that point not know it was so hard finding a new one. Now he considers apologizing.