**Supplementary file 1: Appendices**

**Appendix A**

Test and filler sentences in Experiment 1: 8 test sentences including 4 conditional donkey sentences (1-4) and 4 relative-clause donkey sentences (5-8); 8 filler sentences including 4 sentences (9-12) under the conditional donkey sentence condition and 4 sentences (13-16) under the relative-clause donkey sentence condition.

1. Ruguo nongfu yang-le gou, ta jiu dai ta qu gongyuan.

if farmer raise-ASP dog he then take it go-ASP park

‘If a farmer owned a dog, he took it to the park.’

1. Ruguo huluwa jian-le taozi, ta jiu ba ta songgei-le

if Cucurbita doll pick-ASP peach he then BA it give-to-ASP

yeye.

Grandpa

‘If a Cucurbita doll picked up a peach, he gave it to Grandpa.’

1. Ruguo haidao qiang-le jinbi, ta jiu ba ta cangdao-le

if pirate snatch-ASP golden coin he then BA it hide-to-ASP

wuding shang.

roof above

‘If a pirate snatched a golden coin, he hid it above the roof.’

1. Ruguo yingxiong zhuadao huaidan, ta jiu ba ta songdao-le jingchaju.

if hero catch bad guy he then BA him take-to-ASP police station

‘If a hero caught a bad guy, he took him to the police station.’

1. Mei-ge jian-le tangguo de yang dou ba ta huangei-le huitailang.

every-CL pick-ASP Candy DE goat all BA it return-ASP Wolffy

‘Every goat who picked up a candy returned it to Wolffy.’

1. Mei-ge zuo-le binggan de meirenyu dou ba ta songgei-le xiaoyu.

every-CL make-ASP biscuit DE mermaid all BA it give-to-ASP Little Fish

‘Every mermaid who made a biscuit gave it to Little Fish.’

1. Mei-ge de-le jiangpai de xiongmao dou ba ta songgei-le mama.

every-CL win-ASP medal DE panda all BA it give-to-ASP Mom

‘Every panda who won a medal gave it to Mom.’

1. Mei-ge mai-le pingguo de maomaochong dou ba ta songgei-le yaojing.

every-CL buy-ASP apple DE caterpillar all BA it give-to-ASP Spirit

‘Every caterpillar who bought an apple gave it to Spirit.’

1. a. Wangbobo yang-le liang-tiao gou. (T)

Wang uncle raise-ASP two-CL dog

‘Uncle Wang raised two dogs.’

b. Sunbobo yang-le yi-tiao gou. (F)

Sun uncle raise-ASP one-CL dog

‘Uncle Sun raised one dog.’

1. a. Dawa zai guoyuan li jian-le liang-ge taozi. (T)

Dawa LOC orchard in pick-ASP two-CL peach

‘Dawa picked up two peaches in the orchard.’

b. Siwa zai guoyuan li jian-le yi-ge taozi. (F)

 Siwa LOC orchard in pick-ASP one-CL peach

 ‘Siwa picked up one peach in the orchard.’

1. a. Jiekechuanzhang qiang-le liang-ge jinbi. (T)

Captain Jack snatch-ASP two-CL golden coin

‘Captain Jack snatched two golden coins.’

b. heihaidao qiang-le yi-ge jinbi. (F)

 Black Pirate snatch-ASP one-CL golden coin

 ‘Black Pirate snatched one golden coin.’

1. a. Zhizhuxia zhuadao-le liang-ge huaidan. (T)

Spiderman catch-ASP two-CL bad guy

‘Spiderman caught two bad guys.’

b. Meiguoduizhang zhuadao-le yi-ge huaidan. (F)

 Captain America catch-ASP one-CL bad guy

 ‘Captain America caught one bad guy.’

1. a. Mei-ge meirenyu dou canjia-le bisai. (T)

every-CL mermaid all participate-in-ASP competition

‘Every mermaid participated in the competition.’

b. Mei-ge meirenyu dou zuo-le binggan. (F)

every-CL mermaid all make-ASP biscuit

‘Every mermaid made biscuits.’

1. a. Mei-zhi yang dou qu jiaoyou-le. (T)

every-CL goat all go outing-ASP

‘Every goat went for the outing.’

b. Mei-zhi yang dou jiandao-le tangguo. (F)

 every-CL goat all pick-ASP candy

 ‘Every goat picked up candies.’

1. a. Mei-ge xiongmao dou canjia-le yundonghui. (T)

every-CL panda all participate-in-ASP sports meeting

‘Every panda participated in the sports meeting.’

b. Mei-ge xiongmao dou de-le jiangpai. (F)

 every-CL panda all win-ASP medal

 ‘Every panda won medals.’

1. a. Mei-ge maomaochong dou qu-le jishi. (T)

every-CL caterpillar all go-ASP market

‘Every caterpillar went to the market.’

b. Mei-ge maomaochong dou mai-le pingguo. (F)

 every-CL caterpillar all buy-ASP apple

‘Every caterpillar bought apples.’

**Appendix B**

Test and filler sentences in Experiment 2: 8 test sentences including 4 donkey sentences (1-4) in Context A and 4 donkey sentences (5-8) in Context B; 8 filler sentences including 4 sentences (9-12) in the Context A condition and 4 sentences (13-16) in the Context B condition.

1. Meiyou renhe yi-ge yang-le gou de nongfu ba ta dai qu-le gongyuan.

no any one-CL raise-ASP dog DE farmer BA it take to-ASP park

‘No farmer who has raised a dog took it to the park.’

1. Meiyou renhe yi-ge jian-le taozi de huluwa ba ta songgei-le

no any one-CL pick-ASP peach DE Cucurbita doll BA it give-to-ASP

yeye.

Grandpa

‘No Cucurbita doll who has picked up a peach gave it to Grandpa.’

1. Meiyou renhe yi-ge qiang-le jinbi de haidao ba ta cangdao-le

no any one-CL snatch-ASP golden coin DE pirate BA it hide-to-ASP

wuding shang.

roof above

‘No pirate who has snatched a golden coin hid it above the roof.’

1. Meiyou renhe yi-ge zhua-le huaidan de yingxiong ba ta songdao-le

no any one-CL catch-ASP bad guy DE hero BA it send-to-ASP

jingchaju.

police station

‘No hero who has caught a bad guy sent it to the police station.’

1. Meiyou renhe yi-ge zuo-le binggan de meirenyu ba ta songgei-le

no any one-CL make-ASP biscuit DE mermaid BA it give-to-ASP

xiaoyu.

Little Fish

‘No mermaid who has made a biscuit gave it to Little Fish.’

1. Meiyou renhe yi-ge jian-le tangguo de yang ba ta huangei-le

no any one-CL pick-ASP candy DE goat BA it return-ASP

huitailang.

Wolffy

‘No goat who has picked up a candy returned it to Wolffy.’

1. Meiyou renhe yi-ge de-le jiangpai de xiongmao ba ta songgei-le

no any one-CL win-ASP medal DE panda BA it give-to-ASP

baba.

Dad

‘No panda who has won a medal gave it to Dad.’

1. Meiyou renhe yi-ge mai-le pingguo de maomaochong ba ta songgei-le

no any one-CL buy-ASP apple DE caterpillar BA it give-to-ASP

yaojing.

Spirit

‘No caterpillar who has bought an apple gave it to Spirit.’

1. a. Meiyou renhe yi-ge nongfu yang-le gou. (F)

no any one-CL farmer raise-ASP dog

‘No farmer raised any dog.’

b. Meiyou renhe yi-tiao gou shi Sunbobo de. (T)

no any one-CL dog be Uncle Sun DE-poss

‘No dog belongs to Uncle Sun.’

1. a. Meiyou renhe yi-ge huluwa jian-le taozi. (F)

no any one-CL Cucurbita doll pick-ASP peach

‘No Cucurbita doll picked up any peach.’

b. Meiyou renhe yi-ge taozi shi Siwa de. (T)

no any one-CL peach be Siwa DE-poss

‘No peach belongs to Siwa.’

1. a. Meiyou renhe yi-ge haidao qiang-le jinbi. (F)

no any one-CL pirate snatch-ASP golden coin

‘No pirate snatched any golden coin.’

b. Meiyou renhe yi-ge jinbi shi Heihaidao de. (T)

no any one-CL golden coin be Black Pirate DE-poss

‘No golden coin belongs to Black Pirate.’

1. a. Meiyou renhe yi-ge yingxiong zhuadao-le huaidan. (F)

no any one-CL hero catch-ASP bad guy

‘No hero caught any bad guy.’

b. Meiyou renhe yi-ge huaidan zai silou zuo huai shi. (T)

no any one-CL bad guy LOC fourth floor do bad thing

‘No bad guy did bad things on the fourth floor.’

1. a. Meiyou renhe yi-ge meirenyu zuo-le binggan. (F)

no any one-CL mermaid make-ASP biscuit

‘No mermaid made any biscuit.’

b. Meiyou renhe yi-ge binggan shi zimeirenyu de. (T)

no any one-CL biscuit be Purple Mermaid DE-poss

‘No biscuit belongs to Purple Mermaid.’

1. a. Meiyou renhe yi-ge yang jiandao-le tangguo. (F)

no any one-CL goat pick-ASP candy

‘No goat picked up any candy.’

b. Meiyou renhe yi-ge tangguo bei lanyangyang jiandao-le. (T)

no any one-CL candy BEI Lazy Goat pick-ASP

‘No candy was picked up by Lazy Goat.’

1. a. Meiyou renhe yi-ge xiongmao de-le jiangpai. (F)

no any one-CL panda win-ASP medal

‘No panda won any medal.’

b. Meiyou renhe yi-ge jiangpai shi fenxiongmao de. (T)

 no any one-CL medal be Pink Panda DE-poss

 ‘No medal belongs to Pink Panda.’

1. a. Meiyou renhe yi-ge maomaochong mai-le pingguo. (F)

no any one-CL caterpillar buy-ASP apple

‘No caterpillar bought any apple.’

b. Meiyou renhe yi-ge pingguo shi fenmaomaochong de. (T)

 no any one-CL apple be Pink Caterpillar DE-poss

 ‘No apple belongs to Pink Caterpillar.’

**Supplementary file 2: Tables and figures**

**Table 1:** Two types of story contexts in Experiment 2

|  |  |  |  |
| --- | --- | --- | --- |
| Four goats | Number and distribution of candies among the goats | Number and distribution of candies that were returned to Wolffy by the goats | Number and distribution of candies that were not returned to Wolffy |
| A | 2 | 0 | 2 |
| B | 2 | 0 | 2 |
| C | 2 | 1 | 1 |
| D | 0 | 0 | 0 |
| Context A—Universal reading: T Existential reading: F |
| Four goats | Number and distribution of candies among the goats | Number and distribution of candies that were returned to Wolffy by the goats | Number and distribution of candies that were not returned to Wolffy |
| A | 2 | 1 | 1 |
| B | 2 | 1 | 1 |
| C | 2 | 1 | 1 |
| D | 0 | 0 | 0 |
| Context B—Universal reading: T Existential reading: F |

**Figure 1:** Final scene of the example story



**Figure 2:** Mean acceptance rates of the conditional and relative-clause donkey sentences by Mandarin-speaking children and adults in UE context; Error bars indicate SEs.

**Figure 3:** Mean rejection rates of the test sentences in the two types of contexts by Mandarin-speaking children and adults in DE context; Error bars indicate SEs.