A.5.1  Preposition placement in simple relative clauses

A.5.1.1 Sample material set

material set 1

reference sentence: I would like to meet people who love to party.

01.01: I know the man on whom Jane relied.

01.02: Sally fancies the guy who Steve talked about.

01.03: You wouldn't believe the things at that Bill laughs.

01.04: Brad did something that he apologised for.

01.05: Jennifer never calls the groupies she sleeps with.

01.06: Sarah never achieved the fame of she dreamt.

02.01: Poiret inspected the room in that the murder had taken place.

02.02: I forgot the day that James arrived on.

02.03: Matt retired to an island on he found gold.

02.04: They stopped at a bar they enjoyed a few cocktails at.

02.05: He was born in the year in which Elvis died.

02.06: She asked for the time which the party started at.

03.01: Bill told us about the frequency earthquakes occurred with.

03.02: I am not concerned with the way in he achieved his goal.

03.03: There have been several occasions which Kelly fainted on.

03.04: They attended a service during which they were not allowed to sit.

03.05: Jack was surprised by the precision that Ben worked with.

03.06: His competitors couldn't believe the ease with that he'd won.

Fillers

1. I enjoyed the time ~~that~~ which was I given <ICE-GB:S1A-001 #032>
2. It is a form of dance ~~which~~ already exists <ICE-GB:S1A-002 #149>
3. There was lots of activity ~~that~~ goes on there <ICE-GB:S1A-004 #067>
4. I was the one who’s seen it <ICE-GB:S1A-006 #071>
5. They **~~have~~ has** a conventional cooker as well which they were using <ICE-GB:S1A-009 #190>
6. I had a whole list of things ~~that~~ I wanted to buy <ICE-GB:S1A-013 #109>
7. She writes some wonderful other books that I like <ICE-GB:S1A-016 #271>
8. I don’t know anyone else who could do**es** it <ICE-GB:S1A-021 #013>
9. John’s the one ~~that~~ who the does training
10. I presume it’s something again ~~that~~ which we haven’t done <ICE-GB:S1A-029 #208>
11. That’s a tape I sent them that done I’ve myself <ICE-GB:S1A-033 074>
12. I only know of a few, a handful of people that actually got jobs <ICE-GB:S1A-034 #165>
13. you need something that you’re going to enjoy <ICE-GB:S1A-035 #187>
14. Is her mother the one ~~that~~ had the stroke <ICE-GB:S1A-036 #104>
15. He didn’t have to describe the woman who was sitting there <ICE-GB:S1A-037 #024>
16. Some women describe men as bitchy which ~~is~~ are interesting <ICE-GB:S1A-037 #207>
17. We’re having not the cottage that had we before <ICE-GB:S1A-040 #201>
18. There’s a bone in my nose that’s slightly bent <ICE-GB:S1A-051 #097>
19. They call anything a burger that slap you into a roll <ICE-GB:S1A-055 #201>
20. They all tell me all the things that the books tell me <ICE-GB:S1A-057 #142>
21. I had to meet **~~this~~ these** girl who I haven’t seen for ten years <ICE-GB:S1A-062 #193>
22. It’s a story ~~that~~ goes round <ICE-GB:S1A-065 #027>
23. I expect my mummy and daddy to be exceptional which they never are
<ICE-GB:S1A-065 #128>
24. You’re father actually is up to just about every trick ~~that’~~ is in the book
<ICE-GB:S1A-65 #137>
25. I have to be more honest about the way that I work
26. He’s totally uncompromising tough in the way he approaches towards other people
<ICE-GB:S1A-052 #172>
27. That would be the place I’d love to work <ICE-GB:S1A-066 #073>
28. There are so many people who need**s** physiotherapy <ICE-GB:S1A-003 #027>
29. We did meet this wom**~~a~~e**n who was an English teacher <ICE-GB:S1A-014 #122>
30. He played the chap who didn’t him want there <ICE-GB:S1A-025 #079>
31. So far we haven’t really got very far which is a bit sad <ICE-GB:S1A-008 #009>
32. There’s a bug which has caused major problems <ICE-GB:S1A-029 #335>
33. We visited a wood in the morning ~~which~~ was an oak wood <ICE-GB:S1A-036 #213>
34. They quickly become stories which become part of the folklore <ICE-GB:S1A-063 #171>
35. I’ve got a job as a course director which is a sort of step up <ICE-GB:S1A-097 070>
36. I’ve got a friend who’s an atheist <ICE-GB:S1A-084 #161>

A.5.1.2 SPSS results of British English speakers

**1. BY-SUBJECT:**

**Mauchly-Test auf Sphärizität(b)**

Maß: MASS\_1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Innersubjekteffekt | Mauchly-W | Approximiertes Chi-Quadrat | df | Signifikanz | Epsilon(a) |
| Greenhouse-Geisser | Huynh-Feldt | Untergrenze |
| p\_s | 1,000 | ,000 | 0 | . | 1,000 | 1,000 | 1,000 |
| rel | ,927 | 2,430 | 2 | ,297 | ,932 | 1,000 | ,500 |
| pp | ,909 | 3,047 | 2 | ,218 | ,917 | 1,000 | ,500 |
| p\_s \* rel | ,922 | 2,614 | 2 | ,271 | ,927 | 1,000 | ,500 |
| p\_s \* pp | ,863 | 4,727 | 2 | ,094 | ,879 | ,981 | ,500 |
| rel \* pp | ,458 | 24,499 | 9 | ,004 | ,808 | ,961 | ,250 |
| p\_s \* rel \* pp | ,674 | 12,410 | 9 | ,192 | ,845 | 1,000 | ,250 |

Prüft die Nullhypothese, daß sich die Fehlerkovarianz-Matrix der orthonormalisierten transformierten abhängigen Variablen proportional zur Einheitsmatrix verhält.

a Kann zum Korrigieren der Freiheitsgrade für die gemittelten Signifikanztests verwendet werden. In der Tabelle mit den Tests der Effekte innerhalb der Subjekte werden korrigierte Tests angezeigt.

b Design: Intercept+Age+Sex

 Innersubjekt-Design: p\_s+rel+pp+p\_s\*rel+p\_s\*pp+rel\*pp+p\_s\*rel\*pp

 **Tests der Innersubjekteffekte**

Maß: MASS\_1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Quelle |   | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| p\_s | Sphärizität angenommen | 4,773 | 1 | 4,773 | 4,536 | ,041 |
|   | Greenhouse-Geisser | 4,773 | 1,000 | 4,773 | 4,536 | ,041 |
|   | Huynh-Feldt | 4,773 | 1,000 | 4,773 | 4,536 | ,041 |
|   | Untergrenze | 4,773 | 1,000 | 4,773 | 4,536 | ,041 |
| p\_s \* Age | Sphärizität angenommen | ,007 | 1 | ,007 | ,007 | ,936 |
|   | Greenhouse-Geisser | ,007 | 1,000 | ,007 | ,007 | ,936 |
|   | Huynh-Feldt | ,007 | 1,000 | ,007 | ,007 | ,936 |
|   | Untergrenze | ,007 | 1,000 | ,007 | ,007 | ,936 |
| p\_s \* Sex | Sphärizität angenommen | ,879 | 1 | ,879 | ,835 | ,367 |
|   | Greenhouse-Geisser | ,879 | 1,000 | ,879 | ,835 | ,367 |
|   | Huynh-Feldt | ,879 | 1,000 | ,879 | ,835 | ,367 |
|   | Untergrenze | ,879 | 1,000 | ,879 | ,835 | ,367 |
| Fehler(p\_s) | Sphärizität angenommen | 34,721 | 33 | 1,052 |   |   |
|   | Greenhouse-Geisser | 34,721 | 33,000 | 1,052 |   |   |
|   | Huynh-Feldt | 34,721 | 33,000 | 1,052 |   |   |
|   | Untergrenze | 34,721 | 33,000 | 1,052 |   |   |
| rel | Sphärizität angenommen | 16,806 | 2 | 8,403 | 17,149 | ,000 |
|   | Greenhouse-Geisser | 16,806 | 1,864 | 9,018 | 17,149 | ,000 |
|   | Huynh-Feldt | 16,806 | 2,000 | 8,403 | 17,149 | ,000 |
|   | Untergrenze | 16,806 | 1,000 | 16,806 | 17,149 | ,000 |
| rel \* Age | Sphärizität angenommen | ,171 | 2 | ,086 | ,175 | ,840 |
|   | Greenhouse-Geisser | ,171 | 1,864 | ,092 | ,175 | ,825 |
|   | Huynh-Feldt | ,171 | 2,000 | ,086 | ,175 | ,840 |
|   | Untergrenze | ,171 | 1,000 | ,171 | ,175 | ,678 |
| rel \* Sex | Sphärizität angenommen | 1,811 | 2 | ,906 | 1,848 | ,166 |
|   | Greenhouse-Geisser | 1,811 | 1,864 | ,972 | 1,848 | ,169 |
|   | Huynh-Feldt | 1,811 | 2,000 | ,906 | 1,848 | ,166 |
|   | Untergrenze | 1,811 | 1,000 | 1,811 | 1,848 | ,183 |
| Fehler(rel) | Sphärizität angenommen | 32,340 | 66 | ,490 |   |   |
|   | Greenhouse-Geisser | 32,340 | 61,502 | ,526 |   |   |
|   | Huynh-Feldt | 32,340 | 66,000 | ,490 |   |   |
|   | Untergrenze | 32,340 | 33,000 | ,980 |   |   |
| pp | Sphärizität angenommen | ,703 | 2 | ,352 | ,997 | ,375 |
|   | Greenhouse-Geisser | ,703 | 1,833 | ,384 | ,997 | ,369 |
|   | Huynh-Feldt | ,703 | 2,000 | ,352 | ,997 | ,375 |
|   | Untergrenze | ,703 | 1,000 | ,703 | ,997 | ,325 |
| pp \* Age | Sphärizität angenommen | 2,039 | 2 | 1,020 | 2,890 | ,063 |
|   | Greenhouse-Geisser | 2,039 | 1,833 | 1,112 | 2,890 | ,068 |
|   | Huynh-Feldt | 2,039 | 2,000 | 1,020 | 2,890 | ,063 |
|   | Untergrenze | 2,039 | 1,000 | 2,039 | 2,890 | ,099 |
| pp \* Sex | Sphärizität angenommen | 1,052 | 2 | ,526 | 1,490 | ,233 |
|   | Greenhouse-Geisser | 1,052 | 1,833 | ,574 | 1,490 | ,234 |
|   | Huynh-Feldt | 1,052 | 2,000 | ,526 | 1,490 | ,233 |
|   | Untergrenze | 1,052 | 1,000 | 1,052 | 1,490 | ,231 |
| Fehler(pp) | Sphärizität angenommen | 23,284 | 66 | ,353 |   |   |
|   | Greenhouse-Geisser | 23,284 | 60,505 | ,385 |   |   |
|   | Huynh-Feldt | 23,284 | 66,000 | ,353 |   |   |
|   | Untergrenze | 23,284 | 33,000 | ,706 |   |   |
| p\_s \* rel | Sphärizität angenommen | 12,425 | 2 | 6,213 | 9,740 | ,000 |
|   | Greenhouse-Geisser | 12,425 | 1,855 | 6,700 | 9,740 | ,000 |
|   | Huynh-Feldt | 12,425 | 2,000 | 6,213 | 9,740 | ,000 |
|   | Untergrenze | 12,425 | 1,000 | 12,425 | 9,740 | ,004 |
| p\_s \* rel \* Age | Sphärizität angenommen | ,063 | 2 | ,032 | ,049 | ,952 |
|   | Greenhouse-Geisser | ,063 | 1,855 | ,034 | ,049 | ,942 |
|   | Huynh-Feldt | ,063 | 2,000 | ,032 | ,049 | ,952 |
|   | Untergrenze | ,063 | 1,000 | ,063 | ,049 | ,825 |
| p\_s \* rel \* Sex | Sphärizität angenommen | 1,438 | 2 | ,719 | 1,128 | ,330 |
|   | Greenhouse-Geisser | 1,438 | 1,855 | ,776 | 1,128 | ,327 |
|   | Huynh-Feldt | 1,438 | 2,000 | ,719 | 1,128 | ,330 |
|   | Untergrenze | 1,438 | 1,000 | 1,438 | 1,128 | ,296 |
| Fehler(p\_s\*rel) | Sphärizität angenommen | 42,097 | 66 | ,638 |   |   |
|   | Greenhouse-Geisser | 42,097 | 61,199 | ,688 |   |   |
|   | Huynh-Feldt | 42,097 | 66,000 | ,638 |   |   |
|   | Untergrenze | 42,097 | 33,000 | 1,276 |   |   |
| p\_s \* pp | Sphärizität angenommen | 4,567 | 2 | 2,284 | 4,217 | ,019 |
|   | Greenhouse-Geisser | 4,567 | 1,758 | 2,597 | 4,217 | ,024 |
|   | Huynh-Feldt | 4,567 | 1,962 | 2,327 | 4,217 | ,020 |
|   | Untergrenze | 4,567 | 1,000 | 4,567 | 4,217 | ,048 |
| p\_s \* pp \* Age | Sphärizität angenommen | ,047 | 2 | ,024 | ,043 | ,957 |
|   | Greenhouse-Geisser | ,047 | 1,758 | ,027 | ,043 | ,942 |
|   | Huynh-Feldt | ,047 | 1,962 | ,024 | ,043 | ,955 |
|   | Untergrenze | ,047 | 1,000 | ,047 | ,043 | ,836 |
| p\_s \* pp \* Sex | Sphärizität angenommen | ,908 | 2 | ,454 | ,839 | ,437 |
|   | Greenhouse-Geisser | ,908 | 1,758 | ,516 | ,839 | ,424 |
|   | Huynh-Feldt | ,908 | 1,962 | ,463 | ,839 | ,435 |
|   | Untergrenze | ,908 | 1,000 | ,908 | ,839 | ,366 |
| Fehler(p\_s\*pp) | Sphärizität angenommen | 35,737 | 66 | ,541 |   |   |
|   | Greenhouse-Geisser | 35,737 | 58,030 | ,616 |   |   |
|   | Huynh-Feldt | 35,737 | 64,757 | ,552 |   |   |
|   | Untergrenze | 35,737 | 33,000 | 1,083 |   |   |
| rel \* pp | Sphärizität angenommen | 1,210 | 4 | ,303 | ,854 | ,493 |
|   | Greenhouse-Geisser | 1,210 | 3,233 | ,374 | ,854 | ,474 |
|   | Huynh-Feldt | 1,210 | 3,842 | ,315 | ,854 | ,490 |
|   | Untergrenze | 1,210 | 1,000 | 1,210 | ,854 | ,362 |
| rel \* pp \* Age | Sphärizität angenommen | 2,136 | 4 | ,534 | 1,508 | ,204 |
|   | Greenhouse-Geisser | 2,136 | 3,233 | ,661 | 1,508 | ,214 |
|   | Huynh-Feldt | 2,136 | 3,842 | ,556 | 1,508 | ,206 |
|   | Untergrenze | 2,136 | 1,000 | 2,136 | 1,508 | ,228 |
| rel \* pp \* Sex | Sphärizität angenommen | 1,414 | 4 | ,353 | ,998 | ,411 |
|   | Greenhouse-Geisser | 1,414 | 3,233 | ,437 | ,998 | ,401 |
|   | Huynh-Feldt | 1,414 | 3,842 | ,368 | ,998 | ,409 |
|   | Untergrenze | 1,414 | 1,000 | 1,414 | ,998 | ,325 |
| Fehler(rel\*pp) | Sphärizität angenommen | 46,747 | 132 | ,354 |   |   |
|   | Greenhouse-Geisser | 46,747 | 106,674 | ,438 |   |   |
|   | Huynh-Feldt | 46,747 | 126,791 | ,369 |   |   |
|   | Untergrenze | 46,747 | 33,000 | 1,417 |   |   |
| p\_s \* rel \* pp | Sphärizität angenommen | ,969 | 4 | ,242 | ,687 | ,602 |
|   | Greenhouse-Geisser | ,969 | 3,382 | ,286 | ,687 | ,579 |
|   | Huynh-Feldt | ,969 | 4,000 | ,242 | ,687 | ,602 |
|   | Untergrenze | ,969 | 1,000 | ,969 | ,687 | ,413 |
| p\_s \* rel \* pp \* Age | Sphärizität angenommen | ,998 | 4 | ,249 | ,707 | ,588 |
|   | Greenhouse-Geisser | ,998 | 3,382 | ,295 | ,707 | ,566 |
|   | Huynh-Feldt | ,998 | 4,000 | ,249 | ,707 | ,588 |
|   | Untergrenze | ,998 | 1,000 | ,998 | ,707 | ,406 |
| p\_s \* rel \* pp \* Sex | Sphärizität angenommen | 1,048 | 4 | ,262 | ,743 | ,564 |
|   | Greenhouse-Geisser | 1,048 | 3,382 | ,310 | ,743 | ,543 |
|   | Huynh-Feldt | 1,048 | 4,000 | ,262 | ,743 | ,564 |
|   | Untergrenze | 1,048 | 1,000 | 1,048 | ,743 | ,395 |
| Fehler(p\_s\*rel\*pp) | Sphärizität angenommen | 46,541 | 132 | ,353 |   |   |
|   | Greenhouse-Geisser | 46,541 | 111,594 | ,417 |   |   |
|   | Huynh-Feldt | 46,541 | 132,000 | ,353 |   |   |
|   | Untergrenze | 46,541 | 33,000 | 1,410 |   |   |

 **Tests der Zwischensubjekteffekte**

Maß: MASS\_1

Transformierte Variable: Mittel

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Quelle | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| Konstanter Term | 4,010 | 1 | 4,010 | 23,794 | ,000 |
| Age | ,465 | 1 | ,465 | 2,760 | ,106 |
| Sex | ,252 | 1 | ,252 | 1,495 | ,230 |
| Fehler | 5,561 | 33 | ,169 |   |   |

**2. BY-ITEM**

**Mauchly-Test auf Sphärizität(b)**

Maß: MASS\_1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Innersubjekteffekt | Mauchly-W | Approximiertes Chi-Quadrat | df | Signifikanz | Epsilon(a) |
| Greenhouse-Geisser | Huynh-Feldt | Untergrenze |
| p\_s | 1,000 | ,000 | 0 | . | 1,000 | 1,000 | 1,000 |
| rel | ,859 | ,610 | 2 | ,737 | ,876 | 1,000 | ,500 |
| pp | ,251 | 5,536 | 2 | ,063 | ,572 | ,630 | ,500 |
| p\_s \* rel | ,982 | ,073 | 2 | ,964 | ,982 | 1,000 | ,500 |
| p\_s \* pp | ,881 | ,506 | 2 | ,776 | ,894 | 1,000 | ,500 |
| rel \* pp | ,029 | 12,070 | 9 | ,259 | ,649 | 1,000 | ,250 |
| p\_s \* rel \* pp | ,130 | 6,975 | 9 | ,682 | ,536 | ,951 | ,250 |

Prüft die Nullhypothese, daß sich die Fehlerkovarianz-Matrix der orthonormalisierten transformierten abhängigen Variablen proportional zur Einheitsmatrix verhält.

a Kann zum Korrigieren der Freiheitsgrade für die gemittelten Signifikanztests verwendet werden. In der Tabelle mit den Tests der Effekte innerhalb der Subjekte werden korrigierte Tests angezeigt.

b Design: Intercept

 Innersubjekt-Design: p\_s+rel+pp+p\_s\*rel+p\_s\*pp+rel\*pp+p\_s\*rel\*pp

 **Tests der Innersubjekteffekte**

Maß: MASS\_1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Quelle |   | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| p\_s | Sphärizität angenommen | 5,731 | 1 | 5,731 | 32,261 | ,002 |
|   | Greenhouse-Geisser | 5,731 | 1,000 | 5,731 | 32,261 | ,002 |
|   | Huynh-Feldt | 5,731 | 1,000 | 5,731 | 32,261 | ,002 |
|   | Untergrenze | 5,731 | 1,000 | 5,731 | 32,261 | ,002 |
| Fehler(p\_s) | Sphärizität angenommen | ,888 | 5 | ,178 |   |   |
|   | Greenhouse-Geisser | ,888 | 5,000 | ,178 |   |   |
|   | Huynh-Feldt | ,888 | 5,000 | ,178 |   |   |
|   | Untergrenze | ,888 | 5,000 | ,178 |   |   |
| rel | Sphärizität angenommen | 15,500 | 2 | 7,750 | 38,783 | ,000 |
|   | Greenhouse-Geisser | 15,500 | 1,752 | 8,845 | 38,783 | ,000 |
|   | Huynh-Feldt | 15,500 | 2,000 | 7,750 | 38,783 | ,000 |
|   | Untergrenze | 15,500 | 1,000 | 15,500 | 38,783 | ,002 |
| Fehler(rel) | Sphärizität angenommen | 1,998 | 10 | ,200 |   |   |
|   | Greenhouse-Geisser | 1,998 | 8,762 | ,228 |   |   |
|   | Huynh-Feldt | 1,998 | 10,000 | ,200 |   |   |
|   | Untergrenze | 1,998 | 5,000 | ,400 |   |   |
| pp | Sphärizität angenommen | 1,578 | 2 | ,789 | 30,281 | ,000 |
|   | Greenhouse-Geisser | 1,578 | 1,143 | 1,380 | 30,281 | ,002 |
|   | Huynh-Feldt | 1,578 | 1,260 | 1,252 | 30,281 | ,001 |
|   | Untergrenze | 1,578 | 1,000 | 1,578 | 30,281 | ,003 |
| Fehler(pp) | Sphärizität angenommen | ,261 | 10 | ,026 |   |   |
|   | Greenhouse-Geisser | ,261 | 5,716 | ,046 |   |   |
|   | Huynh-Feldt | ,261 | 6,300 | ,041 |   |   |
|   | Untergrenze | ,261 | 5,000 | ,052 |   |   |
| p\_s \* rel | Sphärizität angenommen | 14,410 | 2 | 7,205 | 78,271 | ,000 |
|   | Greenhouse-Geisser | 14,410 | 1,964 | 7,335 | 78,271 | ,000 |
|   | Huynh-Feldt | 14,410 | 2,000 | 7,205 | 78,271 | ,000 |
|   | Untergrenze | 14,410 | 1,000 | 14,410 | 78,271 | ,000 |
| Fehler(p\_s\*rel) | Sphärizität angenommen | ,921 | 10 | ,092 |   |   |
|   | Greenhouse-Geisser | ,921 | 9,822 | ,094 |   |   |
|   | Huynh-Feldt | ,921 | 10,000 | ,092 |   |   |
|   | Untergrenze | ,921 | 5,000 | ,184 |   |   |
| p\_s \* pp | Sphärizität angenommen | 5,931 | 2 | 2,966 | 20,075 | ,000 |
|   | Greenhouse-Geisser | 5,931 | 1,788 | 3,318 | 20,075 | ,001 |
|   | Huynh-Feldt | 5,931 | 2,000 | 2,966 | 20,075 | ,000 |
|   | Untergrenze | 5,931 | 1,000 | 5,931 | 20,075 | ,007 |
| Fehler(p\_s\*pp) | Sphärizität angenommen | 1,477 | 10 | ,148 |   |   |
|   | Greenhouse-Geisser | 1,477 | 8,938 | ,165 |   |   |
|   | Huynh-Feldt | 1,477 | 10,000 | ,148 |   |   |
|   | Untergrenze | 1,477 | 5,000 | ,295 |   |   |
| rel \* pp | Sphärizität angenommen | ,303 | 4 | ,076 | ,844 | ,513 |
|   | Greenhouse-Geisser | ,303 | 2,597 | ,117 | ,844 | ,479 |
|   | Huynh-Feldt | ,303 | 4,000 | ,076 | ,844 | ,513 |
|   | Untergrenze | ,303 | 1,000 | ,303 | ,844 | ,400 |
| Fehler(rel\*pp) | Sphärizität angenommen | 1,795 | 20 | ,090 |   |   |
|   | Greenhouse-Geisser | 1,795 | 12,986 | ,138 |   |   |
|   | Huynh-Feldt | 1,795 | 20,000 | ,090 |   |   |
|   | Untergrenze | 1,795 | 5,000 | ,359 |   |   |
| p\_s \* rel \* pp | Sphärizität angenommen | ,127 | 4 | ,032 | ,295 | ,878 |
|   | Greenhouse-Geisser | ,127 | 2,144 | ,059 | ,295 | ,764 |
|   | Huynh-Feldt | ,127 | 3,805 | ,033 | ,295 | ,869 |
|   | Untergrenze | ,127 | 1,000 | ,127 | ,295 | ,610 |
| Fehler(p\_s\*rel\*pp) | Sphärizität angenommen | 2,145 | 20 | ,107 |   |   |
|   | Greenhouse-Geisser | 2,145 | 10,721 | ,200 |   |   |
|   | Huynh-Feldt | 2,145 | 19,024 | ,113 |   |   |
|   | Untergrenze | 2,145 | 5,000 | ,429 |   |   |

A.5.1.3 SPSS results of Kenyan English speakers

**BY-SUBJECT**

**Mauchly-Test auf Sphärizität(b)**

Maß: MASS\_1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Innersubjekteffekt | Mauchly-W | Approximiertes Chi-Quadrat | df | Signifikanz | Epsilon(a) |
| Greenhouse-Geisser | Huynh-Feldt | Untergrenze |
| ps | 1,000 | ,000 | 0 | . | 1,000 | 1,000 | 1,000 |
| rel | ,955 | 1,567 | 2 | ,457 | ,957 | 1,000 | ,500 |
| pp | ,862 | 5,045 | 2 | ,080 | ,879 | ,922 | ,500 |
| ps \* rel | ,913 | 3,088 | 2 | ,214 | ,920 | ,969 | ,500 |
| ps \* pp | ,981 | ,666 | 2 | ,717 | ,981 | 1,000 | ,500 |
| rel \* pp | ,877 | 4,367 | 9 | ,886 | ,943 | 1,000 | ,250 |
| ps \* rel \* pp | ,849 | 5,457 | 9 | ,793 | ,935 | 1,000 | ,250 |

Prüft die Nullhypothese, daß sich die Fehlerkovarianz-Matrix der orthonormalisierten transformierten abhängigen Variablen proportional zur Einheitsmatrix verhält.

a Kann zum Korrigieren der Freiheitsgrade für die gemittelten Signifikanztests verwendet werden. In der Tabelle mit den Tests der Effekte innerhalb der Subjekte werden korrigierte Tests angezeigt.

b Design: Intercept

 Innersubjekt-Design: ps+rel+pp+ps\*rel+ps\*pp+rel\*pp+ps\*rel\*pp

 **Tests der Innersubjekteffekte**

Maß: MASS\_1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Quelle |   | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| ps | Sphärizität angenommen | 36,917 | 1 | 36,917 | 40,916 | ,000 |
|   | Greenhouse-Geisser | 36,917 | 1,000 | 36,917 | 40,916 | ,000 |
|   | Huynh-Feldt | 36,917 | 1,000 | 36,917 | 40,916 | ,000 |
|   | Untergrenze | 36,917 | 1,000 | 36,917 | 40,916 | ,000 |
| Fehler(ps) | Sphärizität angenommen | 31,579 | 35 | ,902 |   |   |
|   | Greenhouse-Geisser | 31,579 | 35,000 | ,902 |   |   |
|   | Huynh-Feldt | 31,579 | 35,000 | ,902 |   |   |
|   | Untergrenze | 31,579 | 35,000 | ,902 |   |   |
| rel | Sphärizität angenommen | 26,397 | 2 | 13,198 | 17,413 | ,000 |
|   | Greenhouse-Geisser | 26,397 | 1,914 | 13,793 | 17,413 | ,000 |
|   | Huynh-Feldt | 26,397 | 2,000 | 13,198 | 17,413 | ,000 |
|   | Untergrenze | 26,397 | 1,000 | 26,397 | 17,413 | ,000 |
| Fehler(rel) | Sphärizität angenommen | 53,059 | 70 | ,758 |   |   |
|   | Greenhouse-Geisser | 53,059 | 66,983 | ,792 |   |   |
|   | Huynh-Feldt | 53,059 | 70,000 | ,758 |   |   |
|   | Untergrenze | 53,059 | 35,000 | 1,516 |   |   |
| pp | Sphärizität angenommen | 5,722 | 2 | 2,861 | 4,086 | ,021 |
|   | Greenhouse-Geisser | 5,722 | 1,758 | 3,256 | 4,086 | ,026 |
|   | Huynh-Feldt | 5,722 | 1,843 | 3,104 | 4,086 | ,024 |
|   | Untergrenze | 5,722 | 1,000 | 5,722 | 4,086 | ,051 |
| Fehler(pp) | Sphärizität angenommen | 49,017 | 70 | ,700 |   |   |
|   | Greenhouse-Geisser | 49,017 | 61,516 | ,797 |   |   |
|   | Huynh-Feldt | 49,017 | 64,514 | ,760 |   |   |
|   | Untergrenze | 49,017 | 35,000 | 1,400 |   |   |
| ps \* rel | Sphärizität angenommen | 40,671 | 2 | 20,335 | 28,163 | ,000 |
|   | Greenhouse-Geisser | 40,671 | 1,840 | 22,101 | 28,163 | ,000 |
|   | Huynh-Feldt | 40,671 | 1,938 | 20,991 | 28,163 | ,000 |
|   | Untergrenze | 40,671 | 1,000 | 40,671 | 28,163 | ,000 |
| Fehler(ps\*rel) | Sphärizität angenommen | 50,545 | 70 | ,722 |   |   |
|   | Greenhouse-Geisser | 50,545 | 64,409 | ,785 |   |   |
|   | Huynh-Feldt | 50,545 | 67,814 | ,745 |   |   |
|   | Untergrenze | 50,545 | 35,000 | 1,444 |   |   |
| ps \* pp | Sphärizität angenommen | 21,216 | 2 | 10,608 | 14,213 | ,000 |
|   | Greenhouse-Geisser | 21,216 | 1,962 | 10,814 | 14,213 | ,000 |
|   | Huynh-Feldt | 21,216 | 2,000 | 10,608 | 14,213 | ,000 |
|   | Untergrenze | 21,216 | 1,000 | 21,216 | 14,213 | ,001 |
| Fehler(ps\*pp) | Sphärizität angenommen | 52,248 | 70 | ,746 |   |   |
|   | Greenhouse-Geisser | 52,248 | 68,668 | ,761 |   |   |
|   | Huynh-Feldt | 52,248 | 70,000 | ,746 |   |   |
|   | Untergrenze | 52,248 | 35,000 | 1,493 |   |   |
| rel \* pp | Sphärizität angenommen | 1,346 | 4 | ,336 | ,590 | ,671 |
|   | Greenhouse-Geisser | 1,346 | 3,770 | ,357 | ,590 | ,661 |
|   | Huynh-Feldt | 1,346 | 4,000 | ,336 | ,590 | ,671 |
|   | Untergrenze | 1,346 | 1,000 | 1,346 | ,590 | ,448 |
| Fehler(rel\*pp) | Sphärizität angenommen | 79,860 | 140 | ,570 |   |   |
|   | Greenhouse-Geisser | 79,860 | 131,966 | ,605 |   |   |
|   | Huynh-Feldt | 79,860 | 140,000 | ,570 |   |   |
|   | Untergrenze | 79,860 | 35,000 | 2,282 |   |   |
| ps \* rel \* pp | Sphärizität angenommen | 1,221 | 4 | ,305 | ,362 | ,836 |
|   | Greenhouse-Geisser | 1,221 | 3,739 | ,327 | ,362 | ,823 |
|   | Huynh-Feldt | 1,221 | 4,000 | ,305 | ,362 | ,836 |
|   | Untergrenze | 1,221 | 1,000 | 1,221 | ,362 | ,552 |
| Fehler(ps\*rel\*pp) | Sphärizität angenommen | 118,235 | 140 | ,845 |   |   |
|   | Greenhouse-Geisser | 118,235 | 130,859 | ,904 |   |   |
|   | Huynh-Feldt | 118,235 | 140,000 | ,845 |   |   |
|   | Untergrenze | 118,235 | 35,000 | 3,378 |   |   |

**Tests der Zwischensubjekteffekte**

Maß: MASS\_1

Transformierte Variable: Mittel

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Quelle | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| Konstanter Term | 1,003 | 1 | 1,003 | 2,146 | ,154 |
| Age | ,752 | 1 | ,752 | 1,610 | ,215 |
| Sex | ,783 | 1 | ,783 | 1,676 | ,206 |
| Fehler | 13,553 | 29 | ,467 |   |   |

**BY-ITEM**

**Mauchly-Test auf Sphärizität(b)**

Maß: MASS\_1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Innersubjekteffekt | Mauchly-W | Approximiertes Chi-Quadrat | df | Signifikanz | Epsilon(a) |
| Greenhouse-Geisser | Huynh-Feldt | Untergrenze |
| ps | 1,000 | ,000 | 0 | . | 1,000 | 1,000 | 1,000 |
| rel | ,924 | ,316 | 2 | ,854 | ,929 | 1,000 | ,500 |
| pp | ,809 | ,849 | 2 | ,654 | ,840 | 1,000 | ,500 |
| ps \* rel | ,541 | 2,454 | 2 | ,293 | ,686 | ,858 | ,500 |
| ps \* pp | ,985 | ,062 | 2 | ,969 | ,985 | 1,000 | ,500 |
| rel \* pp | ,344 | 3,647 | 9 | ,943 | ,670 | 1,000 | ,250 |
| ps \* rel \* pp | ,056 | 9,865 | 9 | ,416 | ,401 | ,562 | ,250 |

Prüft die Nullhypothese, daß sich die Fehlerkovarianz-Matrix der orthonormalisierten transformierten abhängigen Variablen proportional zur Einheitsmatrix verhält.

a Kann zum Korrigieren der Freiheitsgrade für die gemittelten Signifikanztests verwendet werden. In der Tabelle mit den Tests der Effekte innerhalb der Subjekte werden korrigierte Tests angezeigt.

b Design: Intercept

 Innersubjekt-Design: ps+rel+pp+ps\*rel+ps\*pp+rel\*pp+ps\*rel\*pp

 **Tests der Innersubjekteffekte**

Maß: MASS\_1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Quelle |   | Quadratsumme vom Typ III | df | Mittel der Quadrate | F | Signifikanz |
| ps | Sphärizität angenommen | 6,153 | 1 | 6,153 | 27,738 | ,003 |
|   | Greenhouse-Geisser | 6,153 | 1,000 | 6,153 | 27,738 | ,003 |
|   | Huynh-Feldt | 6,153 | 1,000 | 6,153 | 27,738 | ,003 |
|   | Untergrenze | 6,153 | 1,000 | 6,153 | 27,738 | ,003 |
| Fehler(ps) | Sphärizität angenommen | 1,109 | 5 | ,222 |   |   |
|   | Greenhouse-Geisser | 1,109 | 5,000 | ,222 |   |   |
|   | Huynh-Feldt | 1,109 | 5,000 | ,222 |   |   |
|   | Untergrenze | 1,109 | 5,000 | ,222 |   |   |
| rel | Sphärizität angenommen | 4,399 | 2 | 2,200 | 10,939 | ,003 |
|   | Greenhouse-Geisser | 4,399 | 1,859 | 2,367 | 10,939 | ,004 |
|   | Huynh-Feldt | 4,399 | 2,000 | 2,200 | 10,939 | ,003 |
|   | Untergrenze | 4,399 | 1,000 | 4,399 | 10,939 | ,021 |
| Fehler(rel) | Sphärizität angenommen | 2,011 | 10 | ,201 |   |   |
|   | Greenhouse-Geisser | 2,011 | 9,294 | ,216 |   |   |
|   | Huynh-Feldt | 2,011 | 10,000 | ,201 |   |   |
|   | Untergrenze | 2,011 | 5,000 | ,402 |   |   |
| pp | Sphärizität angenommen | ,954 | 2 | ,477 | 4,900 | ,033 |
|   | Greenhouse-Geisser | ,954 | 1,679 | ,568 | 4,900 | ,043 |
|   | Huynh-Feldt | ,954 | 2,000 | ,477 | 4,900 | ,033 |
|   | Untergrenze | ,954 | 1,000 | ,954 | 4,900 | ,078 |
| Fehler(pp) | Sphärizität angenommen | ,973 | 10 | ,097 |   |   |
|   | Greenhouse-Geisser | ,973 | 8,395 | ,116 |   |   |
|   | Huynh-Feldt | ,973 | 10,000 | ,097 |   |   |
|   | Untergrenze | ,973 | 5,000 | ,195 |   |   |
| ps \* rel | Sphärizität angenommen | 6,778 | 2 | 3,389 | 28,350 | ,000 |
|   | Greenhouse-Geisser | 6,778 | 1,371 | 4,943 | 28,350 | ,001 |
|   | Huynh-Feldt | 6,778 | 1,716 | 3,950 | 28,350 | ,000 |
|   | Untergrenze | 6,778 | 1,000 | 6,778 | 28,350 | ,003 |
| Fehler(ps\*rel) | Sphärizität angenommen | 1,195 | 10 | ,120 |   |   |
|   | Greenhouse-Geisser | 1,195 | 6,856 | ,174 |   |   |
|   | Huynh-Feldt | 1,195 | 8,581 | ,139 |   |   |
|   | Untergrenze | 1,195 | 5,000 | ,239 |   |   |
| ps \* pp | Sphärizität angenommen | 3,536 | 2 | 1,768 | 6,344 | ,017 |
|   | Greenhouse-Geisser | 3,536 | 1,970 | 1,795 | 6,344 | ,017 |
|   | Huynh-Feldt | 3,536 | 2,000 | 1,768 | 6,344 | ,017 |
|   | Untergrenze | 3,536 | 1,000 | 3,536 | 6,344 | ,053 |
| Fehler(ps\*pp) | Sphärizität angenommen | 2,787 | 10 | ,279 |   |   |
|   | Greenhouse-Geisser | 2,787 | 9,848 | ,283 |   |   |
|   | Huynh-Feldt | 2,787 | 10,000 | ,279 |   |   |
|   | Untergrenze | 2,787 | 5,000 | ,557 |   |   |
| rel \* pp | Sphärizität angenommen | ,224 | 4 | ,056 | ,349 | ,842 |
|   | Greenhouse-Geisser | ,224 | 2,680 | ,084 | ,349 | ,770 |
|   | Huynh-Feldt | ,224 | 4,000 | ,056 | ,349 | ,842 |
|   | Untergrenze | ,224 | 1,000 | ,224 | ,349 | ,581 |
| Fehler(rel\*pp) | Sphärizität angenommen | 3,217 | 20 | ,161 |   |   |
|   | Greenhouse-Geisser | 3,217 | 13,400 | ,240 |   |   |
|   | Huynh-Feldt | 3,217 | 20,000 | ,161 |   |   |
|   | Untergrenze | 3,217 | 5,000 | ,643 |   |   |
| ps \* rel \* pp | Sphärizität angenommen | ,204 | 4 | ,051 | ,314 | ,865 |
|   | Greenhouse-Geisser | ,204 | 1,605 | ,127 | ,314 | ,694 |
|   | Huynh-Feldt | ,204 | 2,248 | ,091 | ,314 | ,760 |
|   | Untergrenze | ,204 | 1,000 | ,204 | ,314 | ,599 |
| Fehler(ps\*rel\*pp) | Sphärizität angenommen | 3,240 | 20 | ,162 |   |   |
|   | Greenhouse-Geisser | 3,240 | 8,026 | ,404 |   |   |
|   | Huynh-Feldt | 3,240 | 11,241 | ,288 |   |   |
|   | Untergrenze | 3,240 | 5,000 | ,648 |   |   |