**­Preliminary Results, Mario's Master Thesis, 15.09.2025**

Independent variables

- Probe-to-Target Similarity (PTS; Nachfolgende Analysen beziehen sich vorerst ausschließlich auf PTS=Same-Trials)

- Queried Item Position (QIP: "P **=** T**1**?" vs. "P = T**2**?", visual probe, comparison; Gerne auch eine andere Bezeichnung; Analysen beziehen sich nur auf die zwei genannten question prompts, die Analysen zu den beiden anderen, "P!=T1?" vs. "P!=T2?", stehen noch aus.)

- Target Position (TP: 1 vs. 2; tactile stimulus, encoding)

- Accessory Stimulus Position (ASP: 1 vs. 2; auditory stimulus, encoding)

- Target-to-Nontarget Similarity (TNS: low vs. high; tactile stimulus, encoding)

Dependent variable

- *p*(c) = *p*(*correct*) - *p*(*error*).

**Table 1. Results of the repeated-measures ANOVA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *Parameters* | | | |
| *Model* | *df* | *F* | *MSE* | *p* |
| *TP* | 1,22 | 4.084 | .693 | .056\* |
| *ASP* | 1,22 | 0.041 | .001 | .841 |
| *TNS* | 1,22 | 49.07 | 2.826 | .009\*\* |
| *QIP* | 1,176 | 1.901 | .110 | .169 |
| *TP × ASP* | 1,22 | 3.938 | .112 | .060~ |
| *TP ×TNS* | 1,22 | 6.225 | .152 | .021\* |
| *ASP × TNS* | 1,22 | 0.451 | .019 | .509 |
| *TP × QIP* | 1,176 | 49.910 | 2.875 | .000\*\*\* |
| *ASP × QIP* | 1,176 | 0.000 | 0.000 | .995 |
| *QIP × TNS* | 1,176 | 0.004 | .000 | .947 |
| *TP × QIP × TNS* | 1,176 | 15.903 | .916 | .000\*\*\* |
| *TP × QIP × ASP* | 1,176 | 0.102 | .006 | .750 |
| *ASP × QIP × TNS* | 1,176 | 0.027 | .002 | .871 |
| *TP × ASP × QIP × TNS* | 1,176 | 0.035 | .002 | .852 |

*Note*. *TP* = *Target Position*, *ASP* = *Accessory Stimulus Position*, *TNS = Target-to-Nontarget Similarity*, *QIP = Queried Item Position*; *MSE* = *Mean Sum of Squared Errors; p = Level of significance.*

*R* comment for running regression model*: p*\_*c* ~ *TP*\**ASP*\**TNS*\**QIP* + *Error*(*participant* / (*TP*\**ASP*\**TNS*\**QIP*))

**Table 1. Means (and *SD*s) for (error-corrected) percent correct, p(c), under *Target Position* = 1 vs. 2:**

.63 (.38), .72 (.31)

**Table 2. Means (and *SD*s) for (error-corrected) percent correct, p(c), under *TNS* = low vs. high:**

.76 (.28), .59 (.39)

**Table 3. Means (and *SD*s) for (error-corrected) percent correct, p(c), when cross-tabulating *Target Position* and *Accessory Stimulus Position*:**

|  |  |  |
| --- | --- | --- |
|  | *Accessory Stimulus Position* | |
| *Target Position* | 1 | 2 |
| 1 | .62 (.38) | .65 (.34) |
| 2 | .74 (.29) | .70 (.33) |

***Note*. *p*(*c*) = *p*(*correct*)-*p*(*error*)**

**Table 1. Means (and *SD*s) for (error-corrected) percent correct, p(c), underlying the significant 2-way interaction between *Target Position* and *Queried Item Position*:**

|  |  |  |
| --- | --- | --- |
|  | *Queried Item Position* | |
| *Target Position* | 1 | 2 |
| 1 | .70 (.29) | .56 (.44) |
| 2 | .61(.36) | .83 (.19) |

*Note*. *p*(*c*) = *p*(*correct*)-*p*(*error*)

**Table 2. Descriptives on the significant 3-way interaction between Target Position (TP), Queried Item Position and Target-to-Nontarget Similarity (TNS) with respect to *p*(c) = *p*(*correct*) - *p*(*error*)**

|  |  |  |  |
| --- | --- | --- | --- |
| *Means* (and *SD*s) |  |  |  |
|  |  | QIP | |
|  | TP | 1 | 2 |
| TNS=low | 1 | .76 (.27) | .72 (.35) |
|  | 2 | .73 (.28) | .84 (.16) |
|  |  |  |  |
| TNS=high | 1 | .64 (.30) | .40 (.46) |
|  | 2 | .50 (.40) | .81 (.22) |

**Table 3. *p*(c) under all *TP* (*Target Position*) × *ASP* (*Accessory Stimulus Position*) × *QIP* (*Queried Item Position*) × *TNS* (*Target-to-Nontarget Similarity*) experimental conditions / combinations**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***TP*** | **ASP** | **QIP** | **TNS** | ***Mean p(c)*** | ***SD p(c)*** |
| 1 | 1 | 1 | high | .62 | .30 |
| 2 | 1 | 1 | high | .53 | .35 |
| 1 | 2 | 1 | high | .67 | .30 |
| 2 | 2 | 1 | high | .46 | .45 |
| 1 | 1 | 2 | high | .40 | .46 |
| 2 | 1 | 2 | high | .84 | .20 |
| 1 | 2 | 2 | high | .41 | .48 |
| 2 | 2 | 2 | high | .78 | .24 |
| 1 | 1 | 1 | low | .75 | .30 |
| 2 | 1 | 1 | low | .74 | .31 |
| 1 | 2 | 1 | low | .78 | .24 |
| 2 | 2 | 1 | low | .72 | .26 |
| 1 | 1 | 2 | low | .70 | .37 |
| 2 | 1 | 2 | low | .84 | .16 |
| 1 | 2 | 2 | low | .74 | .34 |
| 2 | 2 | 2 | low | .84 | .16 |