# Modelling Group and PhonologicalOverlap effects on target fixations for transparent possessives

**Models: Target ~ Group\*PhonologicalOverlap + (1|Participant) + (1|Item)**

* **Dependent variable: Looks to target (0/1)**
* **Fixed effects:**
  + **Group (ASI/HSS, reference level = ASI)**
  + **PhonologicalOverlap (alt/non-alt, reference level = alt)**
* **Random effects:** 
  + **Participant**
  + **Item**

## Window 1

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| **> summary(m1\_postrp)**  **Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']**  **Family: binomial ( logit )**  **Formula: Target ~ Grp \* Pho + (1 | Participant) + (1 | Item)**  **Data: filter(df\_allw, Window == 1, Det == "Possessive", Trp == "Transparent")**  **AIC BIC logLik deviance df.resid**  **12991.3 13035.3 -6489.6 12979.3 11330**  **Scaled residuals:**  **Min 1Q Median 3Q Max**  **-2.1325 -0.7099 -0.4400 0.8613 4.4443**  **Random effects:**  **Groups Name Variance Std.Dev.**  **Participant (Intercept) 0.6577 0.8110**  **Item (Intercept) 0.6183 0.7863**  **Number of obs: 11336, groups: Participant, 31; Item, 30**  **Fixed effects:**  **Estimate Std. Error z value Pr(>|z|)**  **(Intercept) -0.68132 0.30050 -2.267 0.0234 \***  **GrpHSS -0.43934 0.30043 -1.462 0.1436**  **Phonon-alt -0.21510 0.29396 -0.732 0.4643**  **GrpHSS:Phonon-alt 0.55331 0.08683 6.373 0.000000000186 \*\*\***  **---**  **Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1**  **Correlation of Fixed Effects:**  **(Intr) GrpHSS Phnn-l**  **GrpHSS -0.541**  **Phonon-alt -0.487 0.020**  **GrpHSS:Phn- 0.068 -0.144 -0.147** |
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## Window 2

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| **> summary(m2\_postrp)**  **Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']**  **Family: binomial ( logit )**  **Formula: Target ~ Grp \* Pho + (1 | Participant) + (1 | Item)**  **Data: filter(df\_allw, Window == 2, Det == "Possessive", Trp == "Transparent")**  **AIC BIC logLik deviance df.resid**  **21910.3 21957.1 -10949.2 21898.3 17941**  **Scaled residuals:**  **Min 1Q Median 3Q Max**  **-2.4508 -0.7389 -0.4983 0.9527 3.8077**  **Random effects:**  **Groups Name Variance Std.Dev.**  **Participant (Intercept) 0.1648 0.4059**  **Item (Intercept) 0.5128 0.7161**  **Number of obs: 17947, groups: Participant, 31; Item, 30**  **Fixed effects:**  **Estimate Std. Error z value Pr(>|z|)**  **(Intercept) -0.53338 0.21797 -2.447 0.01440 \***  **GrpHSS -0.20063 0.15474 -1.297 0.19477**  **Phonon-alt -0.01782 0.26644 -0.067 0.94669**  **GrpHSS:Phonon-alt 0.20993 0.06626 3.168 0.00153 \*\***  **---**  **Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1**  **Correlation of Fixed Effects:**  **(Intr) GrpHSS Phnn-l**  **GrpHSS -0.388**  **Phonon-alt -0.615 0.032**  **GrpHSS:Phn- 0.089 -0.235 -0.134** |
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## Window 3

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| **> summary(m3\_postrp)**  **Generalized linear mixed model fit by maximum likelihood (Laplace Approximation) ['glmerMod']**  **Family: binomial ( logit )**  **Formula: Target ~ Grp \* Pho + (1 | Participant) + (1 | Item)**  **Data: filter(df\_allw, Window == 3, Det == "Possessive", Trp == "Transparent")**  **AIC BIC logLik deviance df.resid**  **16702.4 16748.0 -8345.2 16690.4 14819**  **Scaled residuals:**  **Min 1Q Median 3Q Max**  **-4.2414 -0.8491 0.4240 0.6966 2.4233**  **Random effects:**  **Groups Name Variance Std.Dev.**  **Participant (Intercept) 0.471 0.6863**  **Item (Intercept) 1.016 1.0079**  **Number of obs: 14825, groups: Participant, 31; Item, 30**  **Fixed effects:**  **Estimate Std. Error z value Pr(>|z|)**  **(Intercept) 0.58286 0.32190 1.811 0.0702 .**  **GrpHSS -0.20909 0.25405 -0.823 0.4105**  **Phonon-alt 0.54943 0.37475 1.466 0.1426**  **GrpHSS:Phonon-alt 0.46108 0.07724 5.969 0.00000000238 \*\*\***  **---**  **Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1**  **Correlation of Fixed Effects:**  **(Intr) GrpHSS Phnn-l**  **GrpHSS -0.433**  **Phonon-alt -0.579 0.018**  **GrpHSS:Phn- 0.065 -0.141 -0.116** |
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