**Analysis 1: Long behavioral dataset: calculate percentages and chi-square**

DATASET ACTIVATE 1.behavior\_long\_format.sav

USE ALL.  
COMPUTE filter\_$=(Interaction\_time = 4).  
VARIABLE LABELS filter\_$ 'Interaction\_time = 4 (FILTER)'.  
VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.  
FORMATS filter\_$ (f1.0).  
FILTER BY filter\_$.  
EXECUTE.

NPAR TESTS  
  /CHISQUARE=**Accuracy\_Binominal**  
  /EXPECTED=EQUAL  
  /STATISTICS DESCRIPTIVES  
  /MISSING ANALYSIS.

**Analysis 2: Regressions between partner’s attraction and impression of being liked/being really liked.**

DATASET ACTIVATE 1.behavior\_long\_format.sav

USE ALL.  
COMPUTE filter\_$=(Interaction\_time ~= 1).  
VARIABLE LABELS filter\_$ 'Interaction\_time ~= 1 (FILTER)'.  
VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.  
FORMATS filter\_$ (f1.0).  
FILTER BY filter\_$.  
EXECUTE.  
\*Generalized Linear Mixed Models.  
GENLINMIXED  
  /DATA\_STRUCTURE SUBJECTS=Dyad\*PPN\*Interaction\_time  
  /FIELDS TARGET=Partner\_likes\_me TRIALS=NONE OFFSET=NONE  
  /TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY  
  /FIXED  EFFECTS=Attractive Gender Gender\*Attractive USE\_INTERCEPT=TRUE  
  /RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS  
  /RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad\*PPN COVARIANCE\_TYPE=VARIANCE\_COMPONENTS  
  /BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL  
  /EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE  
  /EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

**Analysis 3: MANOVA assessed for statistical differences in expressions, gaze fixations and physiology between genders.**

#Restructuring for repeated measures Multilevel GLM to wide format

DATASET ACTIVATE DataSet1.

SAVE OUTFILE='/Users/eliskaprochazkova/Documents/Lowlands/Dataverse/Data/Wide.sav'

/COMPRESSED.

GLM Eyes.2 Eyes.3 Eyes.4 Face.2 Face.3 Face.4 Head.2 Head.3 Head.4 Body.2 Body.3 Body.4 Smile.2 Smile.3 Smile.4 Laugh.2 Laugh.3 Laugh.4 Head\_Shake.2 Head\_Shake.3 Head\_Shake.4 Hand\_Shake.2 Hand\_Shake.3 Hand\_Shake.4 Touch\_Face.2 Touch\_Face.3 Touch\_Face.4

ZMean\_IHR\_response.2 ZMean\_IHR\_response.3 ZMean\_IHR\_response.4 ZMean\_EDA\_response.2 ZMean\_EDA\_response.3 ZMean\_EDA\_response.4 BY Gender

/WSFACTOR=Time 3 Polynomial

/MEASURE=Eyes Face Head Body Smile Laugh Head\_nod Hand\_gesture Touch\_face Zscore\_IHR Zscore\_EDA

/METHOD=SSTYPE(3)

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(Gender)

/EMMEANS=TABLES(Time)

/EMMEANS=TABLES(Gender\*Time)

/PRINT=DESCRIPTIVE ETASQ

/CRITERIA=ALPHA(.05)

/WSDESIGN=Time

/DESIGN=Gender.  
  /WSDESIGN=inter\_type  
  /DESIGN=Gender.

**Additional Control Analysis:**

DATASET Control\_AOI\_Analysis

\*Generalized Linear Mixed Models.  
GENLINMIXED  
  /DATA\_STRUCTURE SUBJECTS=Participant  
  /FIELDS TARGET=Backround TRIALS=NONE OFFSET=NONE  
  /TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY  
  /FIXED  EFFECTS=Gender Inter\_type\_1Verbal\_Nonver2 Gender\*Inter\_type\_1Verbal\_Nonver2 USE\_INTERCEPT=TRUE  
  /BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL  
  /EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE  
   /EMMEANS TABLES=Inter\_type\_1Verbal\_Nonver2 COMPARE=Inter\_type\_1Verbal\_Nonver2 CONTRAST=PAIRWISE  
   /EMMEANS TABLES=Gender\*Inter\_type\_1Verbal\_Nonver2 COMPARE=Gender CONTRAST=PAIRWISE  
  /EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

**Analysis 3: MANOVA assessed for statistical differences in awkwardness, mood grid, shyness, confidence between genders.**

DATASET ACTIVATE 2. Multilevel GLM

GLM Grid\_P Grid\_A Shy Awk SelfConf BY Gender  
  /METHOD=SSTYPE(3)  
  /INTERCEPT=INCLUDE  
  /EMMEANS=TABLES(OVERALL)  
  /EMMEANS=TABLES(Gender)  
  /PRINT=DESCRIPTIVE ETASQ OPOWER PARAMETER  
  /CRITERIA=ALPHA(.05)  
  /DESIGN= Gender.

**Analysis 4: Individual’s naturally occurring postural expansiveness as a predictor of the participants’ romantic attraction**

DATASET ACTIVATE 2. Multilevel GLM

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Smile Gender\*Smile USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Laugh Gender\*Laugh USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Hand\_Shake Gender\*Hand\_Shake USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Head\_Shake Gender\*Head\_Shake USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Touch\_Face Gender\*Touch\_Face USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

**Analysis 8: Individual’s naturally occurring gaze fixations as a predictor of the participants’ romantic attraction**

DATASET ACTIVATE 2. Multilevel GLM

USE ALL.

COMPUTE filter\_$=(EyeTrack\_Outlier ~= 1).

VARIABLE LABELS filter\_$ 'EyeTrack\_Outlier ~= 1 (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Head Gender\*Head USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Face Gender\*Face USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Body Gender\*Body USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Eyes Gender\*Eyes USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Physiology as a predictor of Attraction

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Mean\_IHR\_response Gender\*Mean\_IHR\_response USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

\*Generalized Linear Mixed Models.

GENLINMIXED

/DATA\_STRUCTURE SUBJECTS=Dyad\*ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1

/FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE

/TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY

/FIXED EFFECTS=Gender Mean\_EDA\_response Gender\*Mean\_EDA\_response USE\_INTERCEPT=TRUE

/RANDOM USE\_INTERCEPT=TRUE SUBJECTS=Dyad COVARIANCE\_TYPE=VARIANCE\_COMPONENTS

/BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL

/EMMEANS TABLES=Gender COMPARE=Gender CONTRAST=PAIRWISE

/EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

**Analysis 4: Correlation between males’ and females’ individual expressions**

USE ALL.

COMPUTE filter\_$=(Gender = 1).

VARIABLE LABELS filter\_$ 'Gender = 1 (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

NONPAR CORR

/VARIABLES=Smile Laugh Head\_shake Hand\_shake Touch\_face part\_smile part\_laugh part\_headshake part\_handshake part\_touchface

/PRINT=SPEARMAN ONETAIL NOSIG

/MISSING=PAIRWISE.

**Analysis 5: Correlation between females and males expressiveness (sum of all individual expressions)**

USE ALL.

COMPUTE filter\_$=(Gender = 1).

VARIABLE LABELS filter\_$ 'Gender = 1 (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

NONPAR CORR

/VARIABLES=Expressivness Partner\_expressivness

/PRINT=SPEARMAN ONETAIL NOSIG

/MISSING=PAIRWISE.

**Analysis 6: Final Model synchrony Analysis**

DATASET ACTIVATE. Centered

R analysis:

m4 <- GLMERSelect(modelData = data,responseVar = 'Attraction\_centered',

fitFamily = "gaussian",

fixedFactors= "dummyGender",

fixedTerms=list(dummynonverbal=1,dummyVerbFirst\_first=1,WCCmean\_SCL=1,WCCmean\_IHR=1 ,Both\_Smile\_mean=1 , Both\_Laugh\_mean=1,Both\_Head\_Shake\_mean=1,Both\_Hand\_Shake\_mean=1, Both\_Head\_Fix\_mean=1, Both\_Face\_Fix\_mean=1 ,Both\_Eye\_Fix\_mean=1),

fitInteractions=TRUE,

randomStruct= "(1|Epoch\_time)", verbose=FALSE)

summary(m4)

**Final Model SPSS:**

\*Generalized Linear Mixed Models.  
GENLINMIXED  
  /DATA\_STRUCTURE SUBJECTS=ID\_num REPEATED\_MEASURES=Epoch\_time COVARIANCE\_TYPE=AR1  
  /FIELDS TARGET=Attraction TRIALS=NONE OFFSET=NONE  
  /TARGET\_OPTIONS DISTRIBUTION=NORMAL LINK=IDENTITY  
  /FIXED  EFFECTS=dummynonverbal Gender dummyVerbFirst\_first WCCmean\_SCL WCCmean\_IHR Gender\*WCCmean\_IHR Gender\*WCCmean\_SCL dummynonverbal\*WCCmean\_IHR dummynonverbal\*WCCmean\_SCL USE\_INTERCEPT=TRUE  
  /BUILD\_OPTIONS TARGET\_CATEGORY\_ORDER=ASCENDING INPUTS\_CATEGORY\_ORDER=ASCENDING MAX\_ITERATIONS=100 CONFIDENCE\_LEVEL=95 DF\_METHOD=RESIDUAL COVB=MODEL  
  /EMMEANS\_OPTIONS SCALE=ORIGINAL PADJUST=LSD.

Extra control Analysis:

See Cor\_table\_FDR