1. **Experiment 1**

Model with Interactions

m1=glmer(Pstrike~IOVD\*Disparity+(1|Animal), family=binomial(link="logit"), data=iData)

summary(m1)

Model without interactions

m2=glmer(Pstrike~IOVD+Disparity+(1|Animal), family=binomial(link="logit"), data=iData)

summary(m2)

1. **Experiment 2**

midData=read.csv('./Data/Nityananda\_et\_al2018\_MotionInDepth\_Experiment2\_Data.csv')

midData$Disparity <- factor(midData$Disparity, levels = c("Near", "Far", "Changing Disparity"))

midData$Size <- factor(midData$Size, levels = c("Large", "Small", "Loom"))

Model with Interactions

m1=glmer(Pstrike~Size\*Disparity+(1|Animal), family=binomial(link="logit"),data=midData,REML = FALSE, control = glmerControl(optimizer ='optimx', optCtrl=list(method='L-BFGS-B')))

summary(m1)

Model without interactions

m2=glmer(Pstrike~Size+Disparity+(1|Animal), family=binomial(link="logit"),data=midData2)

summary(m2)

1. **Experiment 3**

Model with Interactions

m1=glmer(ProbStrike~Loom\*motionCondition\*Disparity+(1|Animal), family=binomial(link='logit'),data=lfData, control = glmerControl(optimizer ='optimx', optCtrl=list(method='nlminb')))

summary(m1)

Model without interactions

m2=glmer(ProbStrike~Loom+motionCondition+Disparity+(1|Animal), family=binomial(link='logit'),data=lfData, control = glmerControl(optimizer ='optimx', optCtrl=list(method='nlminb')))

summary(m2)