Title: **Detecting an effect of group size on individual responses to neighboring groups in grey-cheeked mangabeys (*Lophocebus albigena*)**

Author: Michelle Brown

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STATA commands for data analysis

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/\* create standardized variables \*/

summ IGDr

gen IGDrS=(IGD-r(mean))/(2\*r(sd))

summ gsAM

gen gsAMs=(gsAM-r(mean))/(2\*r(sd))

gen gsAMr=gsAM-gsAMc

summ gsAMr

gen gsAMrS=(gsAMr-r(mean))/(2\*r(sd))

summ gsAF

gen gsAFs=(gsAF-r(mean))/(2\*r(sd))

gen gsAFr=gsAF-gsAFc

summ gsAFr

gen gsAFrS=(gsAFr-r(mean))/(2\*r(sd))

summ gsAS

gen gsASs=(gsAS-r(mean))/(2\*r(sd))

gen gsASr=gsAS-gsASc

summ gsASr

gen gsASrS=(gsASr-r(mean))/(2\*r(sd))

/\* 2 preliminary models to test the effect of potential confounds \*/

xtmixed fTravel i.ReproN if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

xtmixed fTravel i.ReproN IGDrS WG if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

/\* models for NATURALLY OCCURRING CALLS \*/

xtmixed fTravel Male IGDrS if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nASblank

xtmixed fTravel Male IGDrS gsAMs if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nAMa

xtmixed fTravel Male IGDrS gsAMrS if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nAMr

xtmixed fTravel Male IGDrS gsAFs if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nAFa

xtmixed fTravel Male IGDrS gsAFrS if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nAFr

xtmixed fTravel Male IGDrS gsASs if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nASa

xtmixed fTravel Male IGDrS gsASrS if PBE==0 || \_all:R.Dyad || Stimulus: , nolog

estimates store nASr

/\* models for SIMULATED CALLS \*/

xtmixed fTravel Male otherSSappr if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pAMblank

xtmixed fTravel Male otherSSappr gsAMs if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pAMa

xtmixed fTravel Male otherSSappr gsAMrS if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pAMr

xtmixed fTravel Male otherSSappr gsAFs if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pAFa

xtmixed fTravel Male otherSSappr gsAFrS if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pAFr

xtmixed fTravel Male otherSSappr gsASs if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pASa

xtmixed fTravel Male otherSSappr gsASrS if PBE==1 || \_all:R.Dyad || Stimulus: , nolog

estimates store pASr

estimates stats \_all

/\* models to test for social contagion in approaches \*/

xtmixed fTravel Male gsAMs if PBE==1 & fTravel<50 || \_all:R.Focal || Stimulus: , nolog

estat ic

xtmixed fTravel Male gsAMs otherSSappr if PBE==1 & fTravel<50 || \_all:R.Focal || Stimulus: , nolog

estat ic