### dataClass

covariateProbeVals covariateSupplied groupTable nParticipants observedData participantFilenames participantLevel saveName totalTrials

+dataClass ( saveName ) +addData (thisTrialData) +getParticipantData ( participant ) +loadDataFiles ( fnames ) +quickAnalysis () +setCovariateProbeValues ( CovariateProbeValues ) +setCovariateValues ( covariateValues )

## modelSimple

analyses initial\_param JAGSmodel memeparams modelType monitorparams observed range sampler samples stanFit

**STAN**model

stats

+modelSimple ( toolboxPath ) #doAnalysis ()

#figParticipant ( samples, data ) #invokeJAGS ( )

#invokeSTAN (data)

#processSTANoutput ( fit ) #samplePlots ()

#stackedForestPlot ( uni )

+conductInference (data)

+plot (data)

+setBurnIn ( nburnin )

+setMCMCnumberOfChains (nchains)

+setMCMCtotalSamples (totalSamples)

+setSampler ( sampler )

## modelSeperate

+modelSeperate ( toolboxPath ) #doAnalysis ()

#figParticipantLevelWRAPPER ( data )
#getParticipantSamples ( participant )
#processSTANoutput ( fit )
#setInitialParamValues ( data )
#setObservedMonitoredValues ( data )
+MCMCdiagnostics ( data )
+myHDIboxplotWrapper ( data )
+plot ( data )

modelHierarchical

#setObservedMonitoredValues ( data ) +HTgroupSlopeLessThanZero (data)

modelHierarchicalNOMAG +modelHierarchicalNOMAG ( toolboxPath )

+modelHierarchical (toolboxPath)

#setInitialParamValues ( data )

+MCMCdiagnostics (data)

#doAnalysis ()

+plot (data)

#doAnalysis ()

+plot (data)

#figGroupLevel ( data )

#stackedForestPlot ( uni ) +MCMCdiagnostics (data)

#figParticipant ( samples, data )
#setInitialParamValues ( data )

#setObservedMonitoredValues ( data )

+plotPriorPost ()

#figGroupLevel (data)

# modelLINEAR

+modelLINEAR ( toolboxPath )

#doAnalysis () #figGroupLevel (data)

#setInitialParamValues ( data )

#setObservedMonitoredValues ( data )

+figGroupedForestPlot ( uni ) +MCMCdiagnostics (data)

+plot (data)

+plotCovariates (data)

# nSamples params +posteriorPredictionPlot (fh, x, params) +evaluateFunction (ExamplesToPlot) +plotCI ( ci ) +plotData ( xdata, ydata ) +plotExamples ( nExamples ) +plotPointEstimate ( params ) +plotProbMass (yi) #setInitialParamValues ( data ) #setMCMCparams ( ) #setObservedMonitoredValues ( data )

posteriorPredictionPlot

## psychometric

axisHandle dataX dataY figureHandle Ncurves saveDir

+psychometric ( x, y, T ) +addData ( x, N, trials ) +export ( saveName ) +makeAxis () +plotData()

+plotInferredCurves ( samples ) +plotTrueCurves ()