Updated December 18th, 2020
Related to Stage 2 Report at Cortex,
Ecological stress, amygdala reactivity, and internalizing problems…

Table of Contents for Analyses Folders

All analyses are housed within the "Stage2_Analyses" folder. They are broken into two subcategories, a) "Main" and "Sensitivity" folders (which are compressed files). The "Main" folder contains the subfolders "R" and "Mplus". In *Main → R* folder, you will find the .Rmd file which compiles/extracts the data to build the study specific .csv, generates exclusion criteria, filters sample, and describes data via in figures/tables (these comprise flowcharts/supplemental figures). The .html file contains the output of each step, when relevant. The .Rmd file, at the end, creates the final .dat file that is imported into Mplus for the SEM analyses. The Mplus folder contains the necessary .output files to rerun our analyses in Mplus for models that are in-text and in supplemental materials.

- Questions pertaining to the .Rmd/.html files may be directed to:
  - Michael Demidenko, demidenm@umich.edu
- Questions pertaining to the .out files may be directed to:
  - Dr. Ka Ip, ka.ip@yale.edu

The branch of folders and their content are expanded below:

1. **Main**
   a. R
      i. **R-markdown (.Rmd):** for Full-sample, exclusion criteria, descriptives, correlations and .dat creations
      ii. **.html:** for Full-Sample, quick view with floating table of contents of code/output for sensitivity sample: exclusion, descriptives, correlations, etc.
   b. Mplus
      i. **Data File:** Mplus_wide_final.dat
      ii. **Model testing if bilateral amygdala reactivity mediates association between ecological stress and internalizing symptoms**
         1. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification.out
      iii. **Multigroup models testing if bilateral amygdala reactivity mediates association between ecological stress and internalizing symptoms differs across gender**
         1. SEM_EcologicalRisk_BiAmygdala_CBCLY1_MultiGroup_complex.out
         2. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupConstraintedFreeER.out
         3. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_ER.out
         4. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_ERtoAmygdala.out

5. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_amygdalatoCBCL.out
6. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_Parent.out
7. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_ParentoAmygdala.out

iv. Model testing moderating effect of parental acceptance on association between ecological stress and internalizing symptoms

1. SEM_EcologicalRisk_BiAmygdala_CBCLY1_ParentModeration1Path_Random.out
2. SEM_EcologicalRisk_BiAmygdala_CBCLY1_ParentModeration2_Random.out

v. Post Hoc model testing whether parental acceptance mediates the association between ecological stress and internalizing symptoms

1. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_MediationModel.out

vi. Post Hoc multigroup model testing whether parental acceptance mediates the association between ecological stress and internalizing symptoms and if that differs by gender

1. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_MediationModel_multigroup.out
2. SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupConstraintedFreeER_mediationTesting.out

vii. Model testing if left hemisphere amygdala reactivity mediates association between ecological stress and internalizing symptoms

1. SEM_EcologicalRisk_leftAmygdala_CBCLY1_complex_stratification.out

viii. Model testing if right hemisphere amygdala reactivity mediates association between ecological stress and internalizing symptoms

1. SEM_EcologicalRisk_RightAmygdala_CBCLY1_complex_stratification.out

2. <u>Sensitivity</u>

a. <u>R</u>

i. **R-markdown (.Rmd):** for <u>Sensitivity subsample</u>, exclusion, descriptives, correlations and .dat creations

ii. .html: for <u>Sensitivity subsample</u>, quick view with floating table of contents of code/output for sensitivity sample: exclusion, descriptives, correlations, etc.

b. <u>Mplus models done in the sensitivity subsample with stricter QC thresholds</u>

i. **Data File:** Mplus_wide_final_SENSITIVITY.dat

ii. **Model testing if bilateral amygdala reactivity mediates association between ecological stress and internalizing symptoms in sensitivity subsample**

1. Sensitivty_SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification.out

iii. Multigroup model testing if bilateral amygdala reactivity mediates association between ecological stress and internalizing symptoms differs across gender in sensitivity subsample

1. Sensitvity_SEM_EcologicalRisk_BiAmygdala_CBCLY1_MultiGroup_complex.out
2. Sensitivity_SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupConstraintedFreeER.out
3. Sensitivty_SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_ER.out
4. Sensitivity_SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_multigroupModelTest_Parent.out

iv. Model testing if left hemisphere amygdala reactivity mediates association between ecological stress and internalizing symptoms in sensitivity subsample

1. Sensitivity_SEM_EcologicalRisk_leftAmygdala_CBCLY1_complex_stratification.out

v. Model testing if right hemisphere amygdala reactivity mediates association between ecological stress and internalizing symptoms in sensitivity subsample

1. Sensitivity_SEM_EcologicalRisk_RightAmygdala_CBCLY1_complex_stratification.out

vi. Model testing moderating effect of parental acceptance on association between ecological stress and internalizing symptoms in sensitivity subsample

1. Sensitivity_SEM_EcologicalRisk_BiAmygdala_CBCLY1_ParentModeration2_Random.out

vii. Post Hoc model testing whether parental acceptance mediates the association between ecological stress and internalizing symptoms in sensitivity subsample

1. Sensitivity_SEM_EcologicalRisk_BiAmygdala_CBCLY1_complex_stratification_MediationModel.out