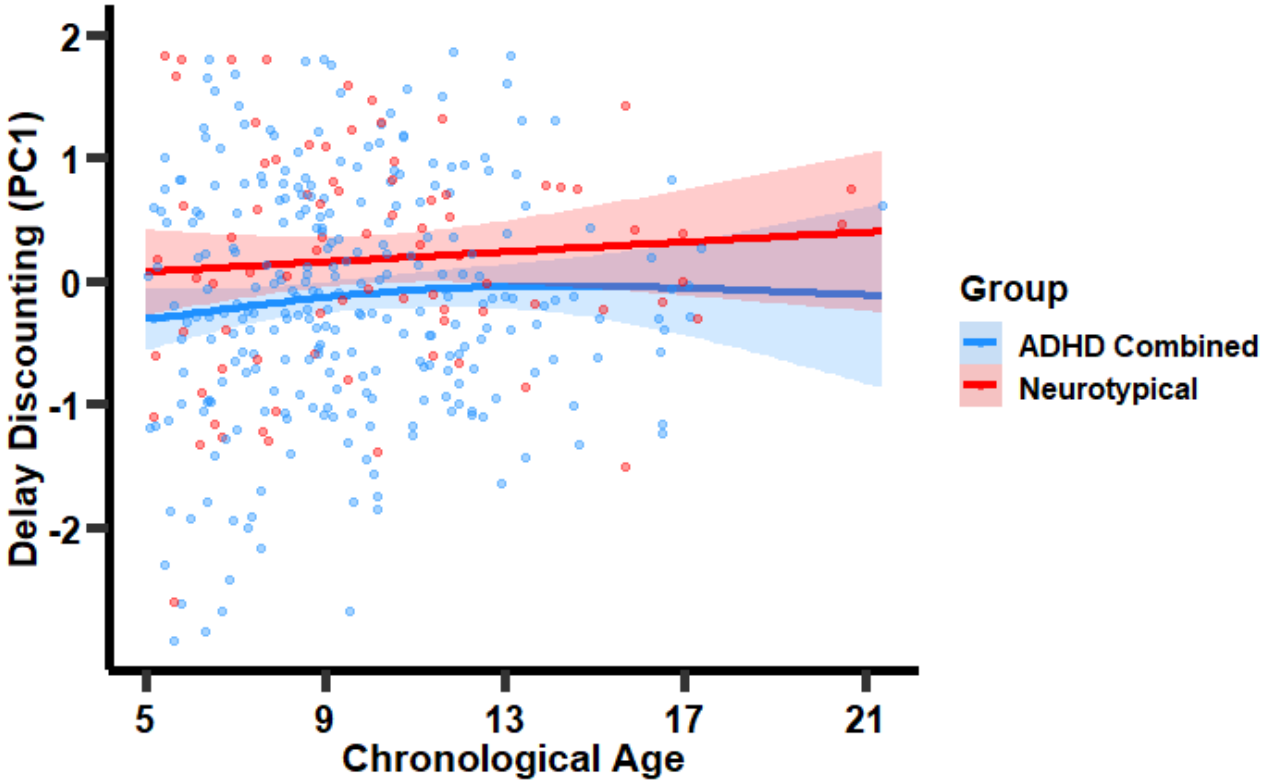
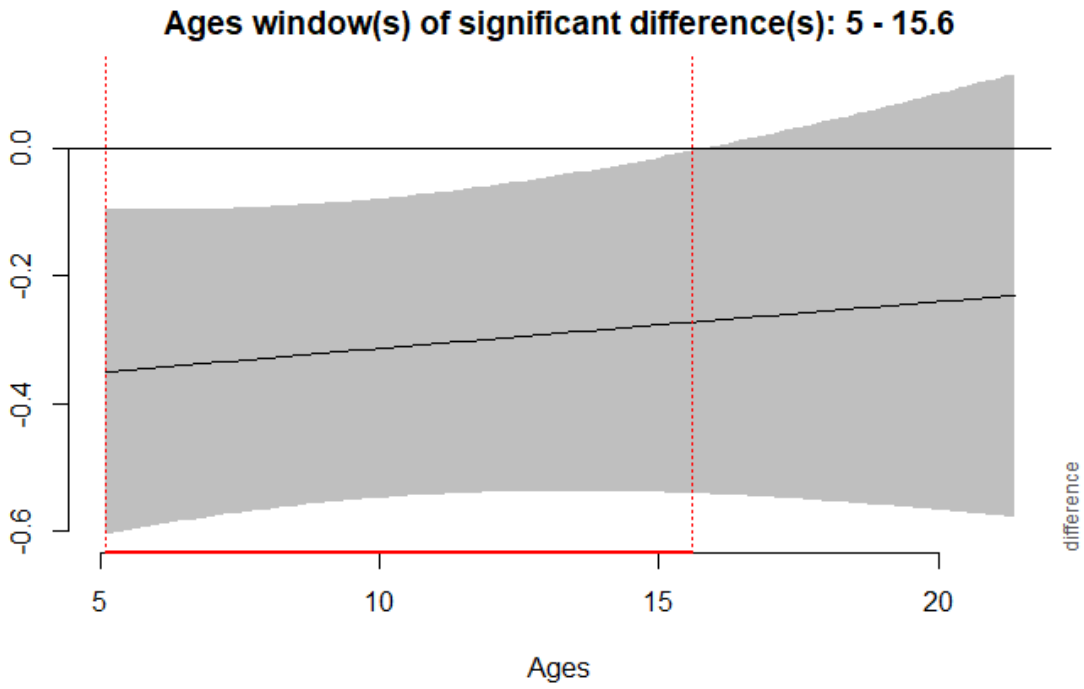
Delay Discounting: Gam Analysis

Best Model Fit

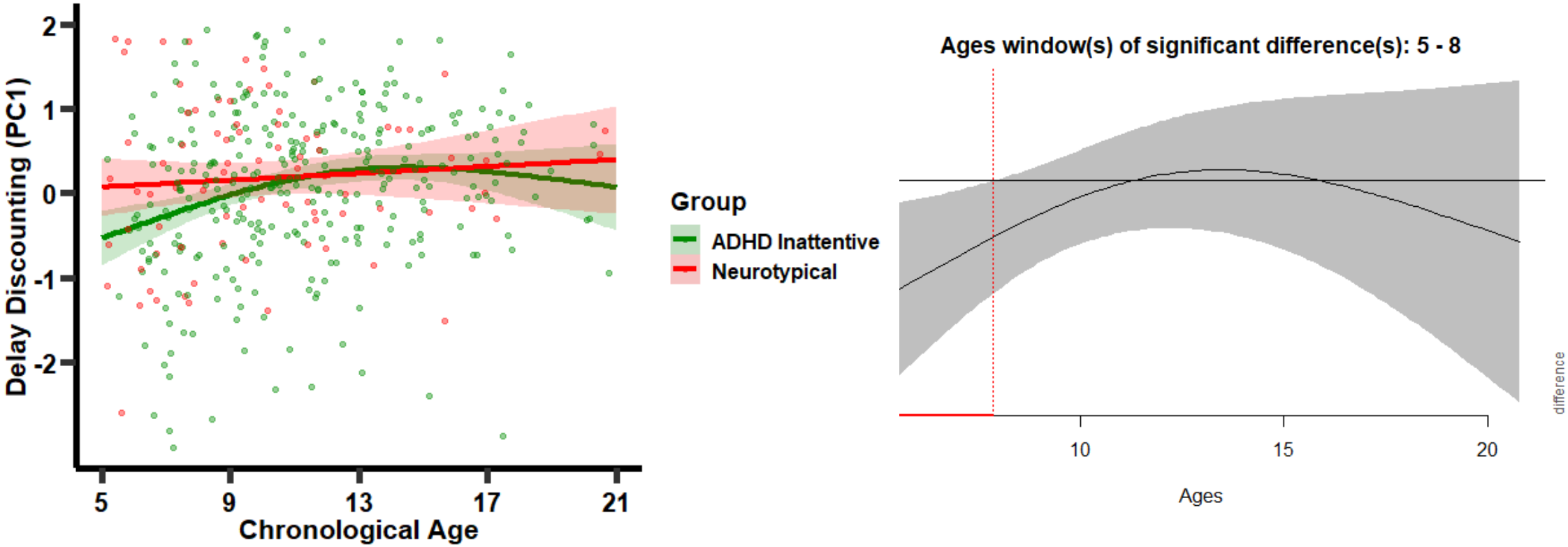
- Null, Linear, and Gam models were tested to determine best fit.
- ANOVA and F test revealed GAM model to be the best model fit.
- $p < .00001$

ADHD Combined

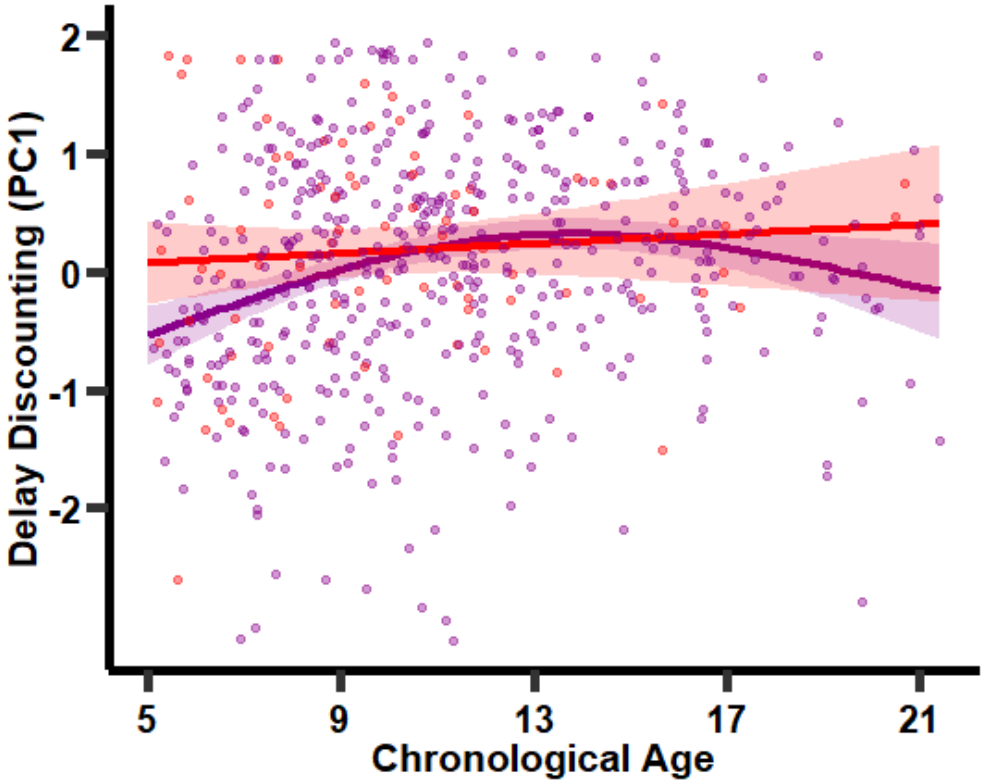


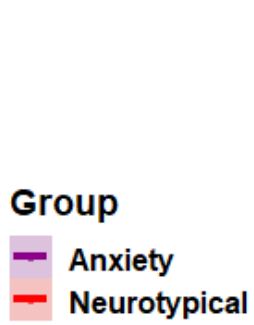


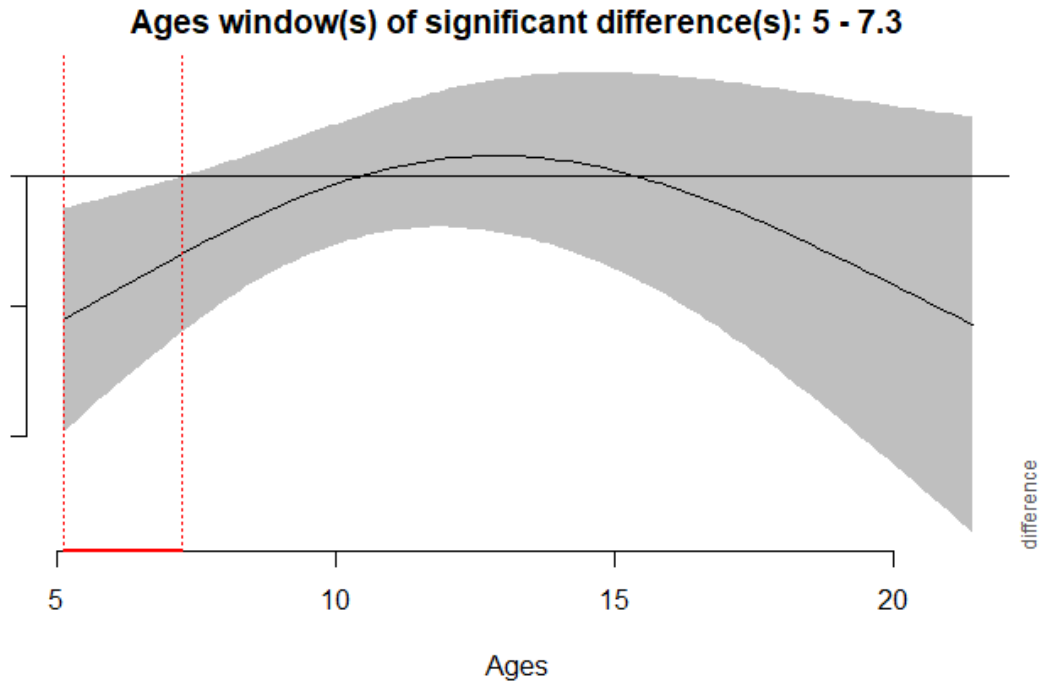
ADHD Inattentive



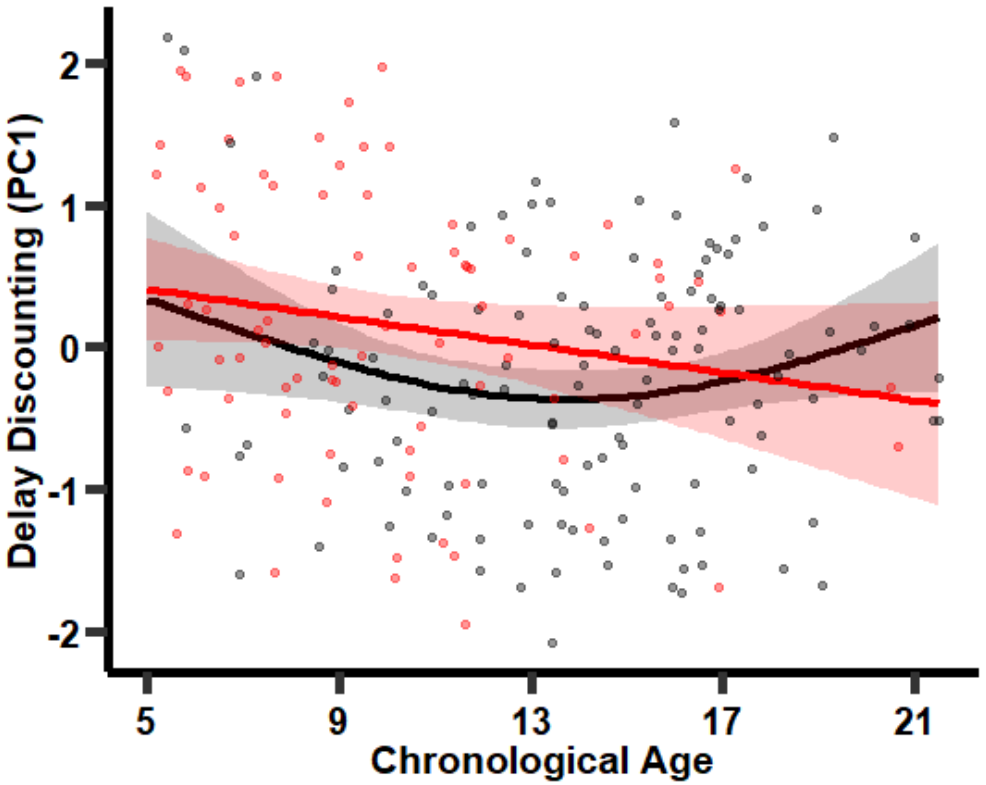
Anxiety

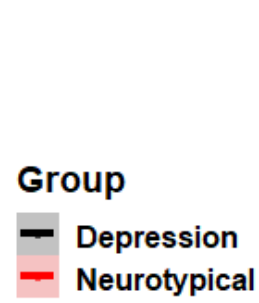

Delay Discounting (PC1)
2
1
0
-1
-2
5
9
13
17
21
Chronological Age

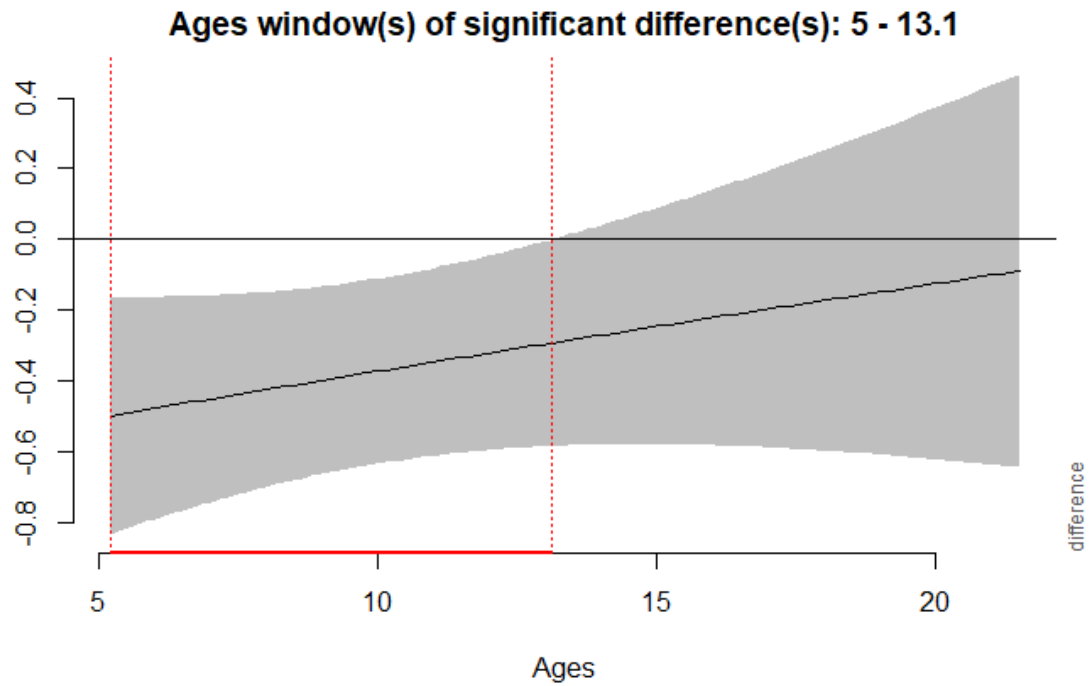

Group
Anxiety
Neurotypical


Ages window(s) of significant difference(s): 5 - 7.3
5
10
15
20
Ages
difference

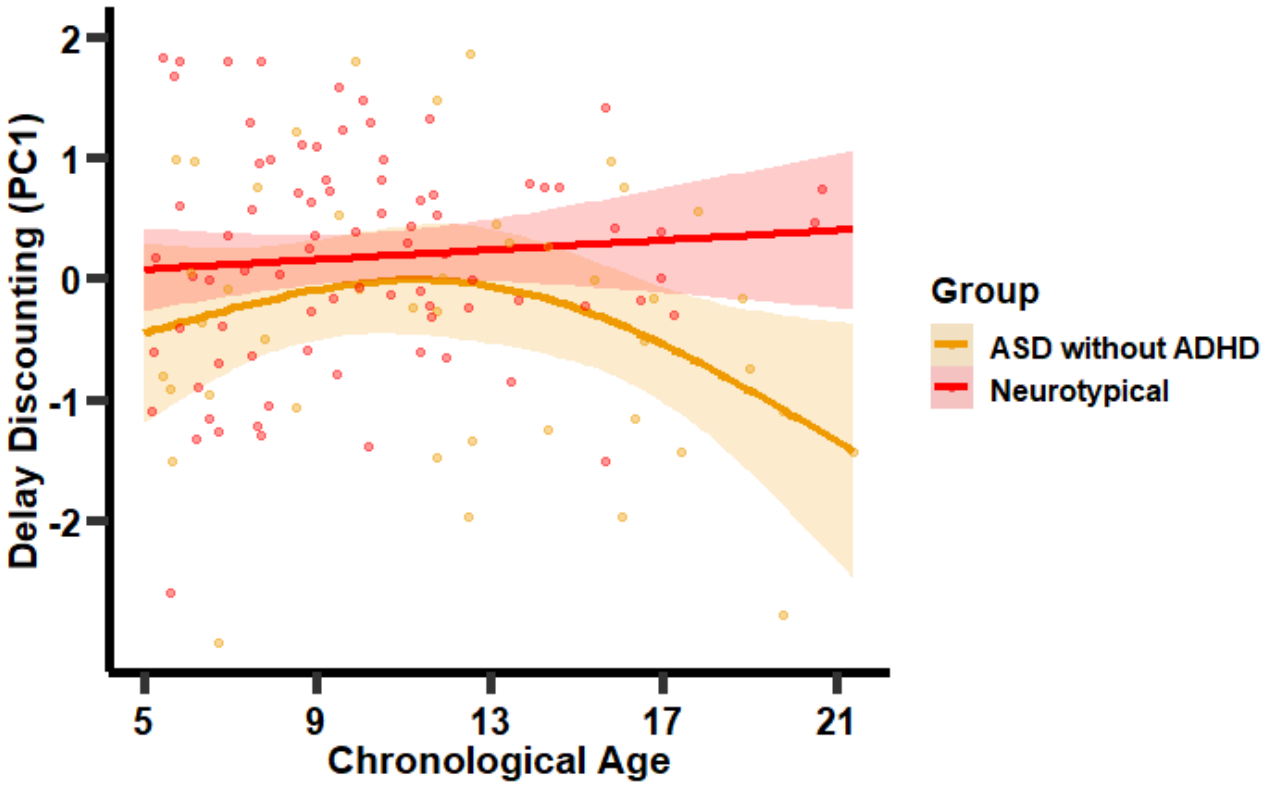
Depression

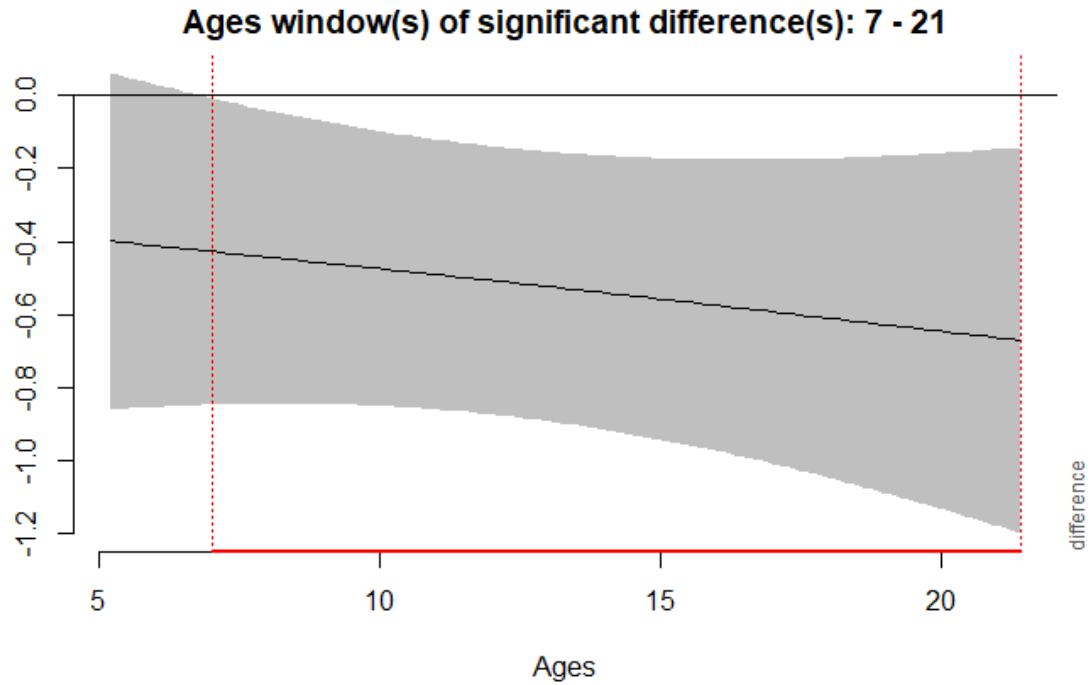

Delay Discounting (PC1)
2
1
0
-1
-2
5
9
13
17
21
Chronological Age


Group
Depression
Neurotypical

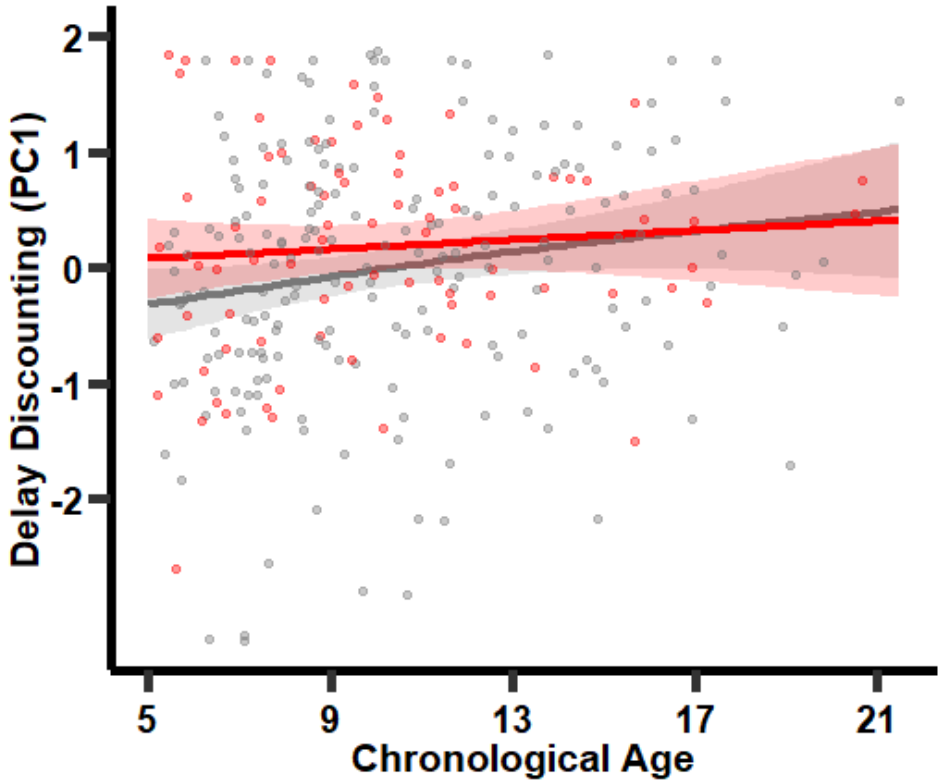

Ages window(s) of significant difference(s): 5 - 13.1
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
5
10
15
20
Ages
difference

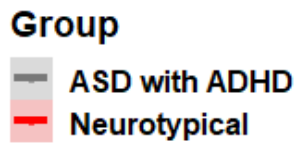
Autism Without ADHD

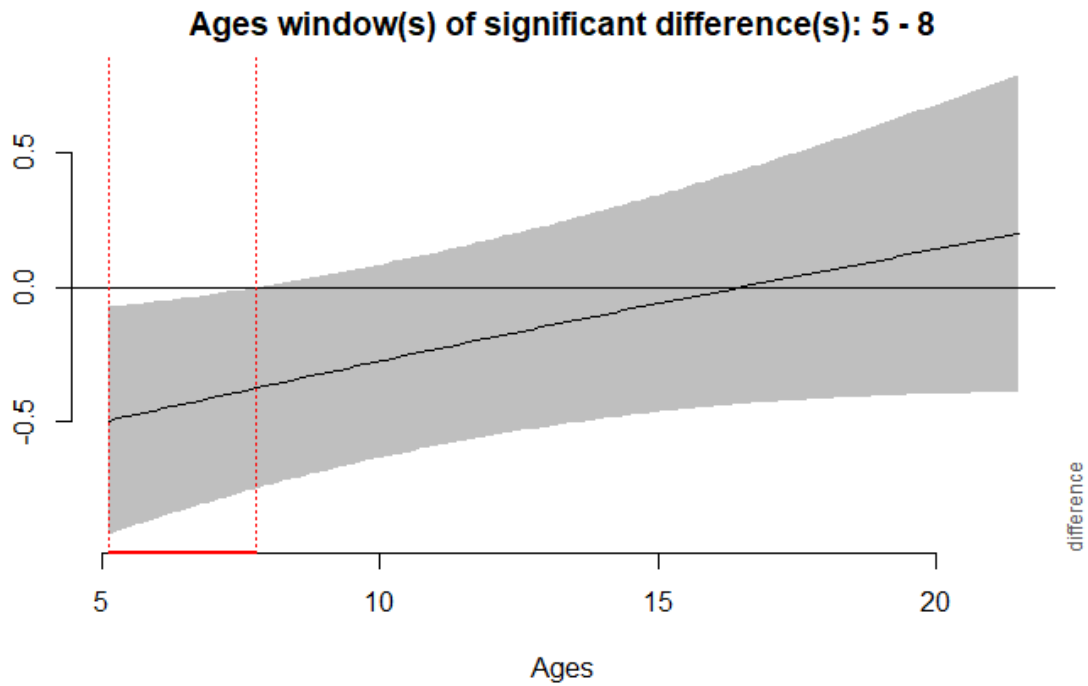




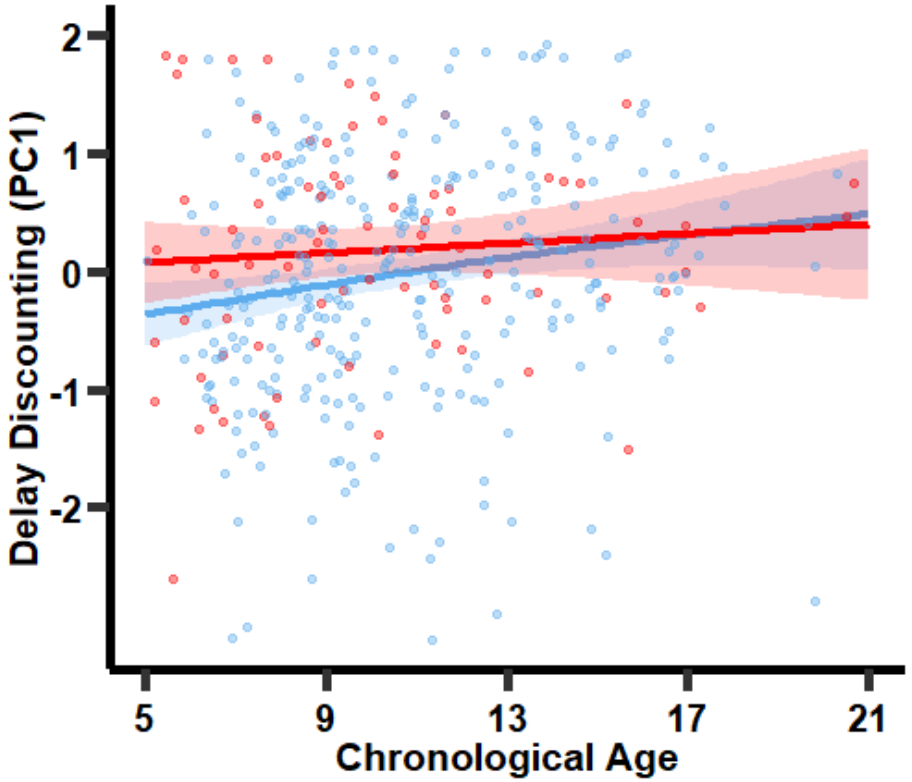
Autism with ADHD

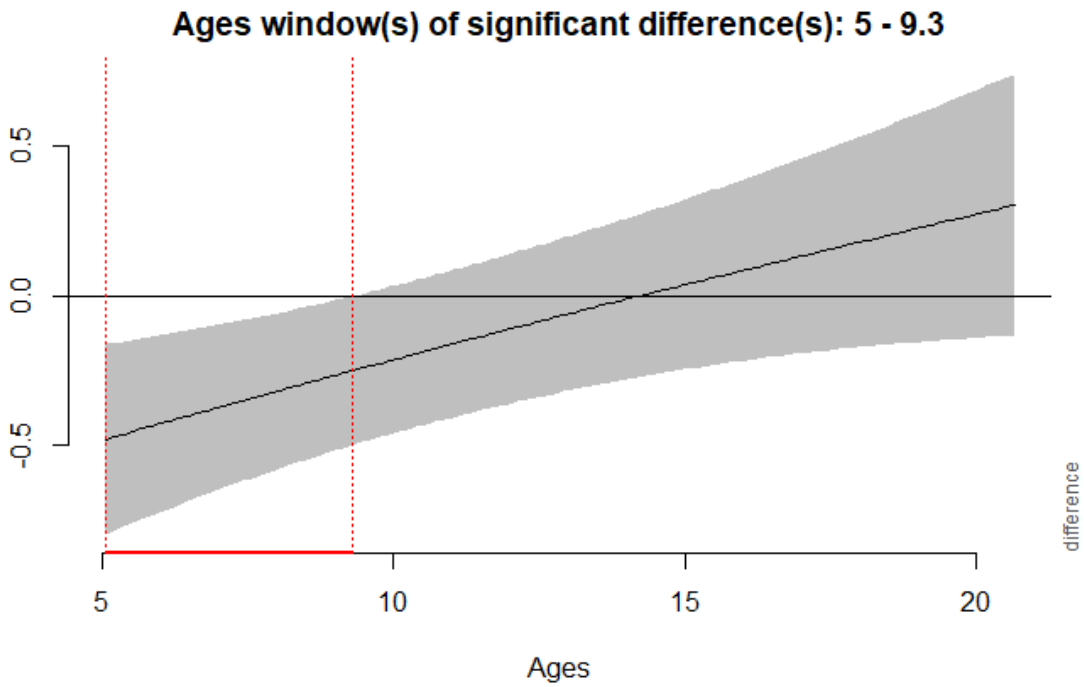






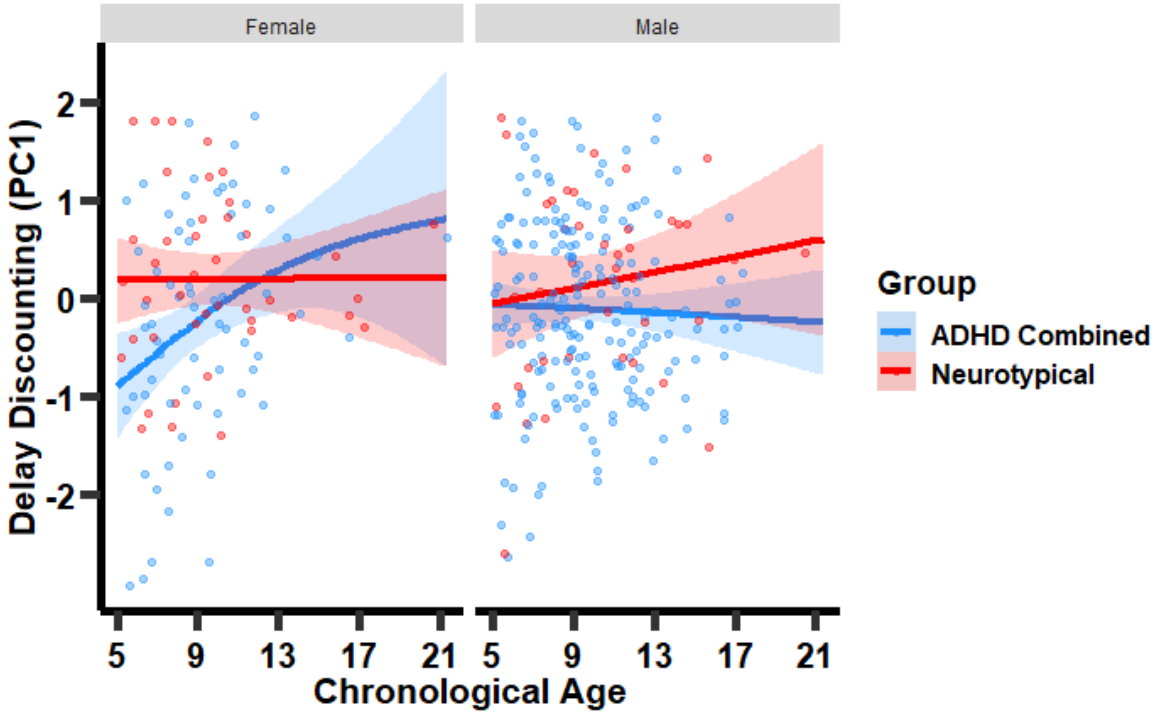
Learning Disorders

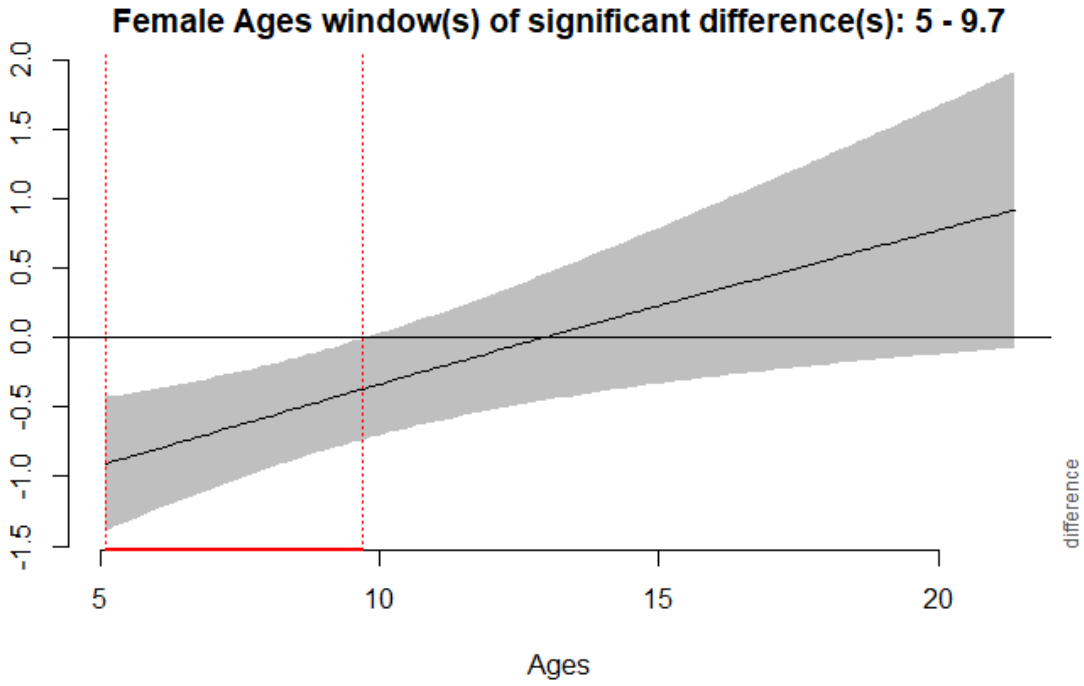




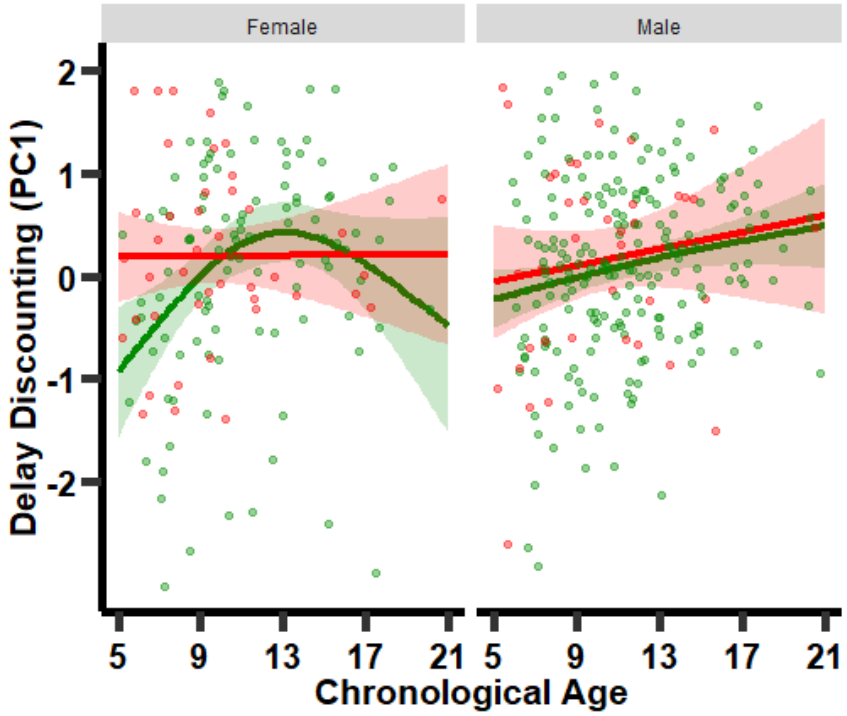
Diagnosis Sex Differences vs Neurotypicals

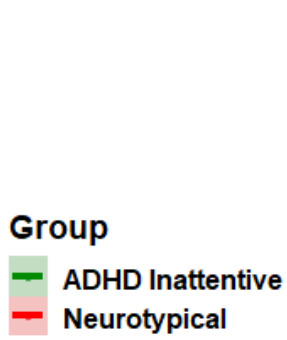
ADHD Combined - Females



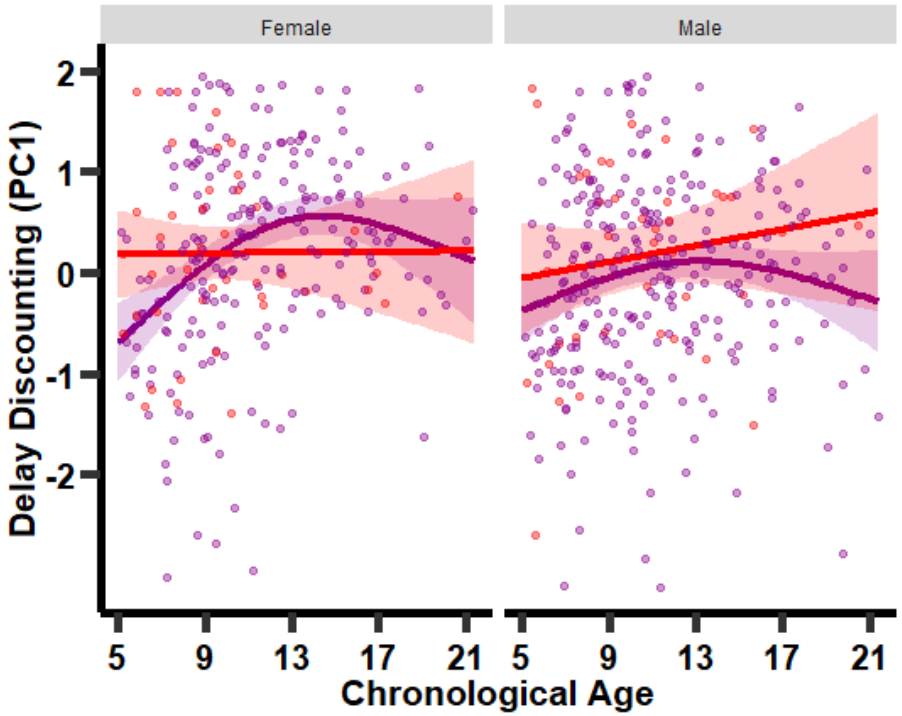


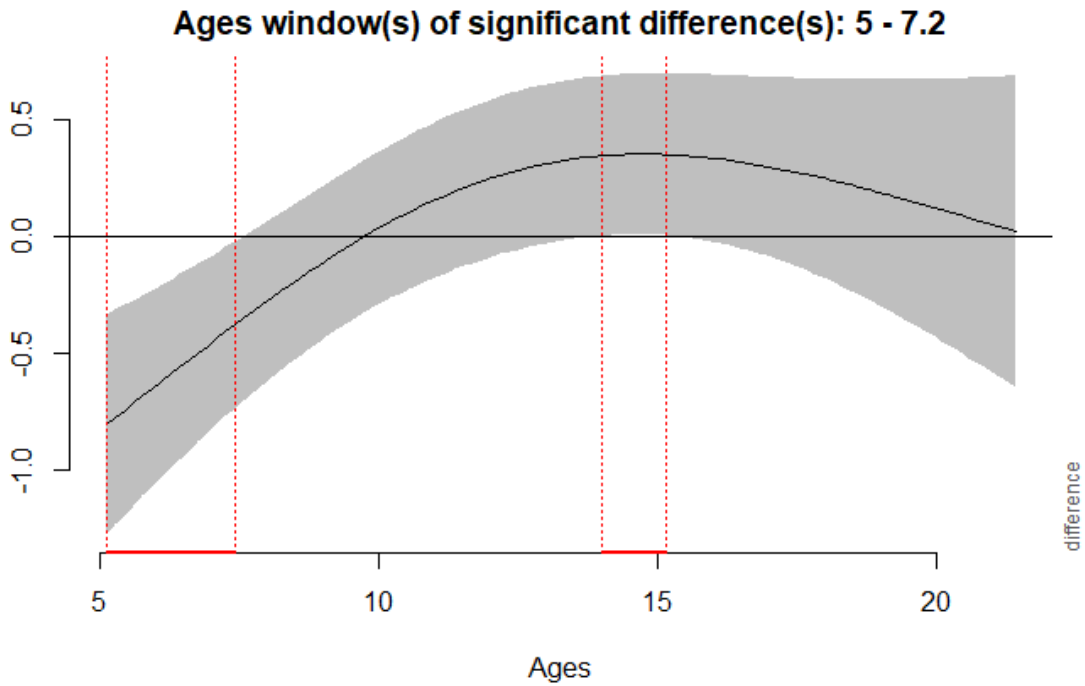
ADHD Inattentive - Female



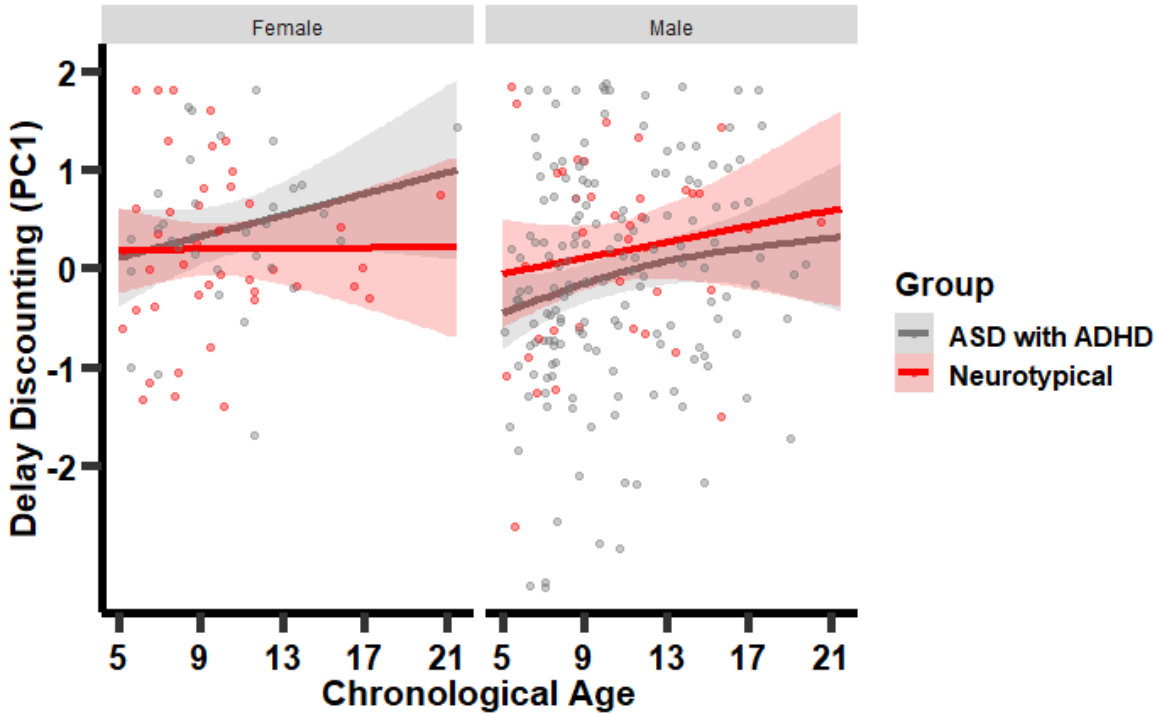


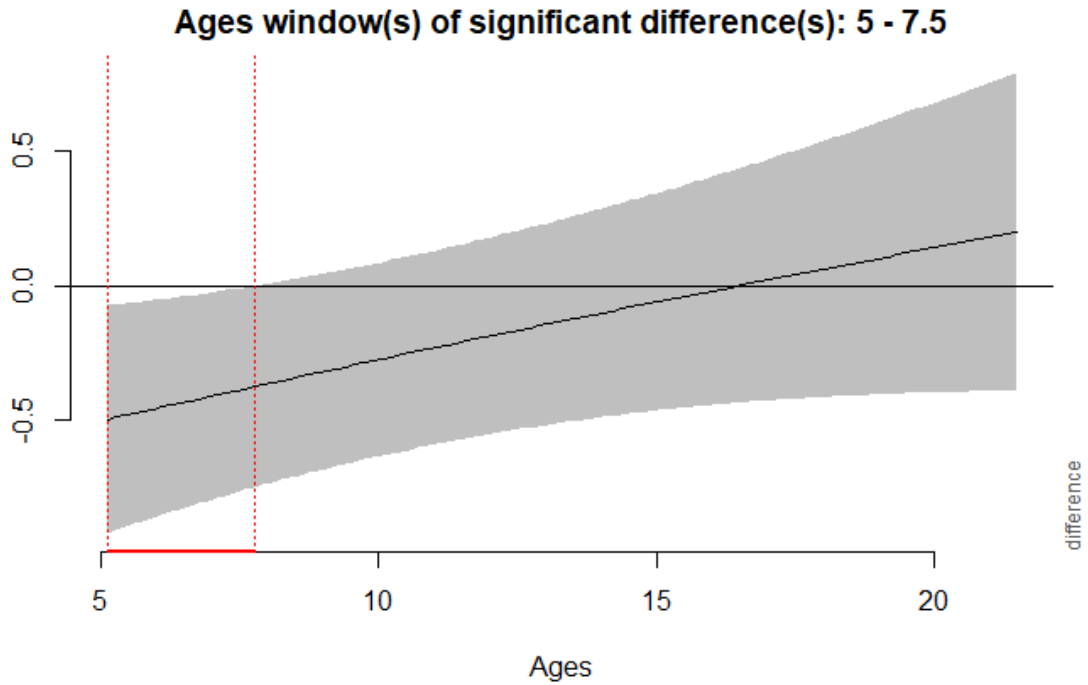
Anxiety - Females



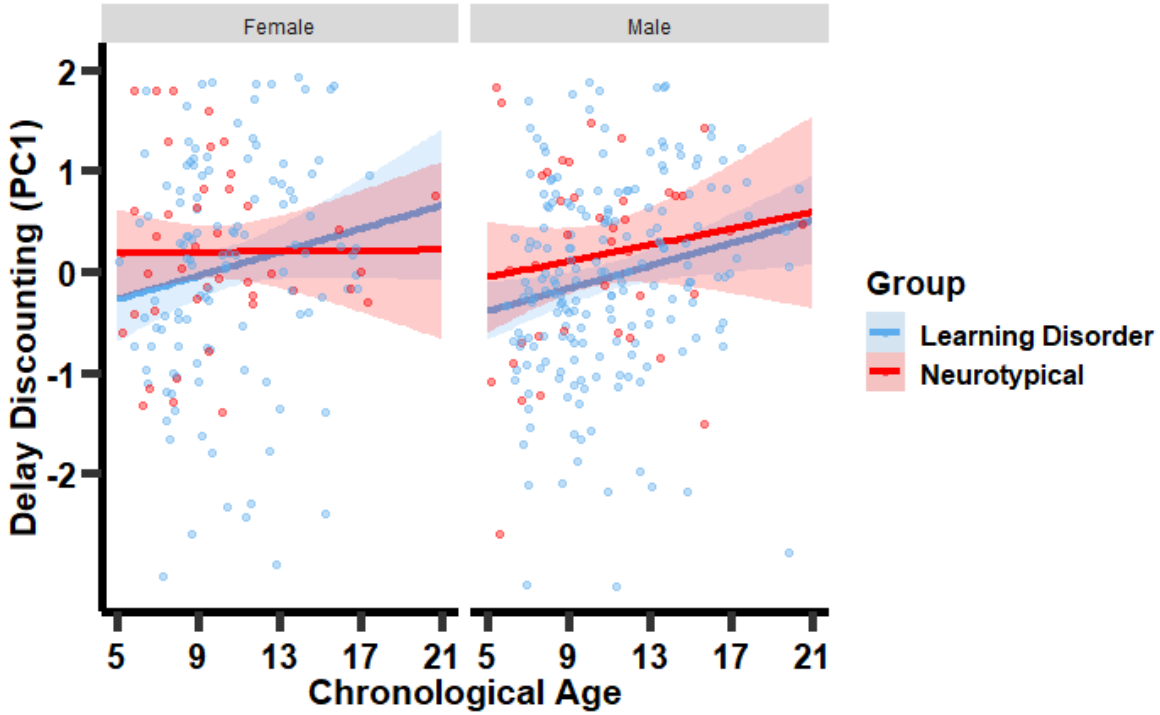


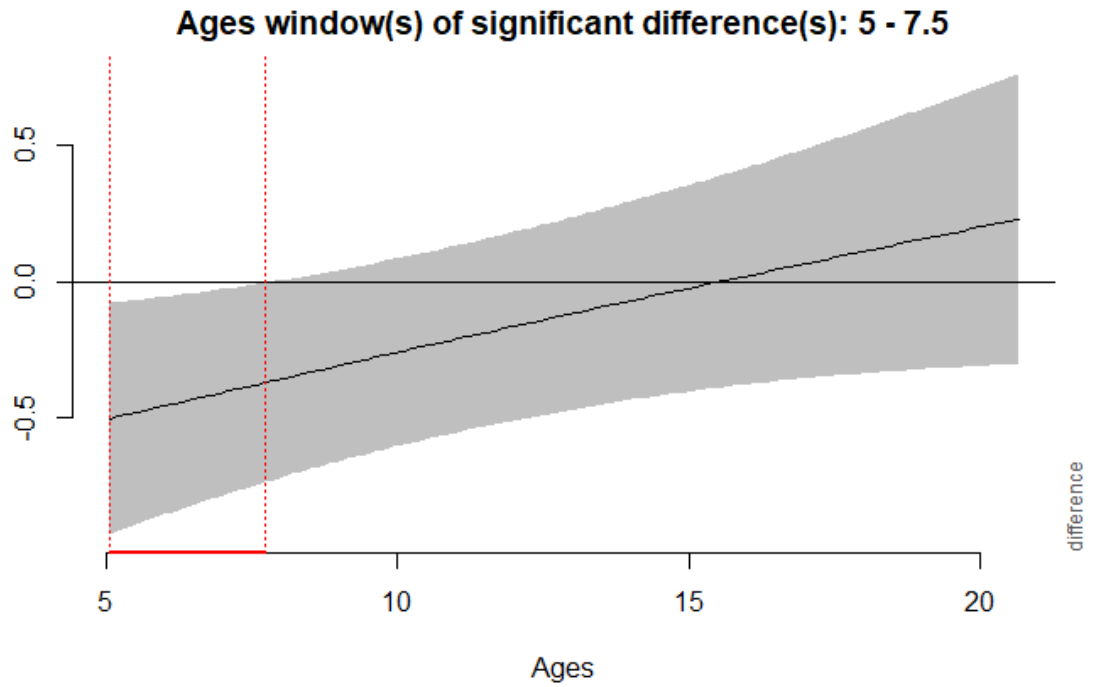
Autism With ADHD - Males



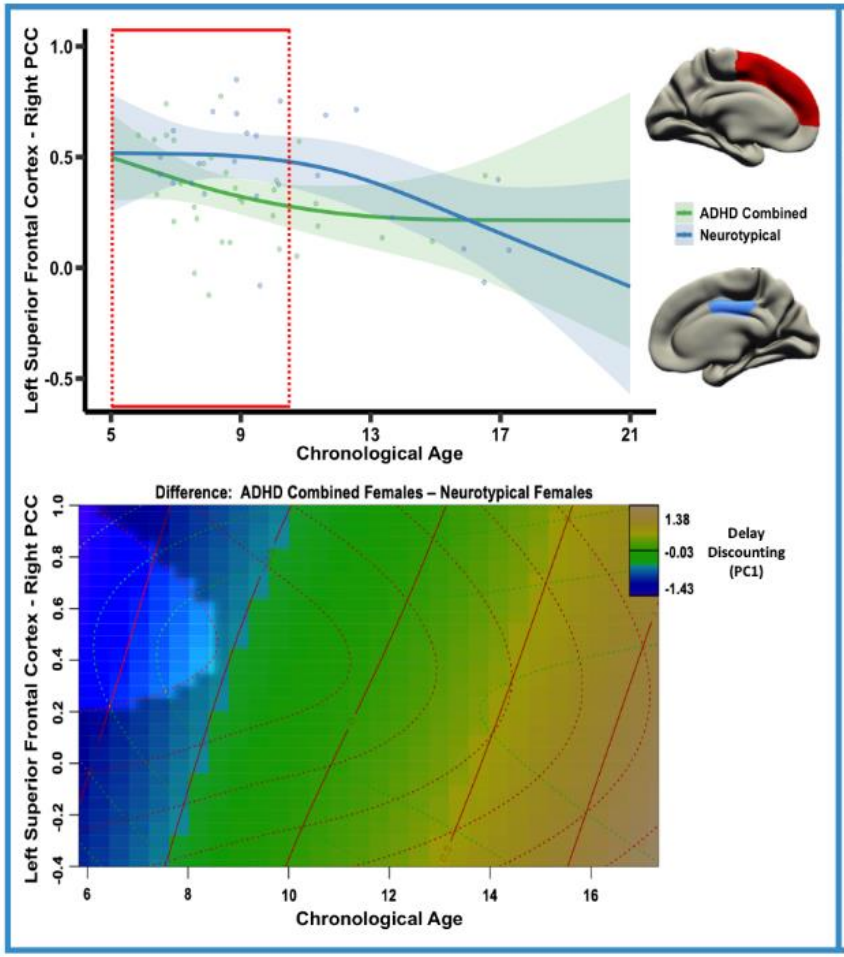


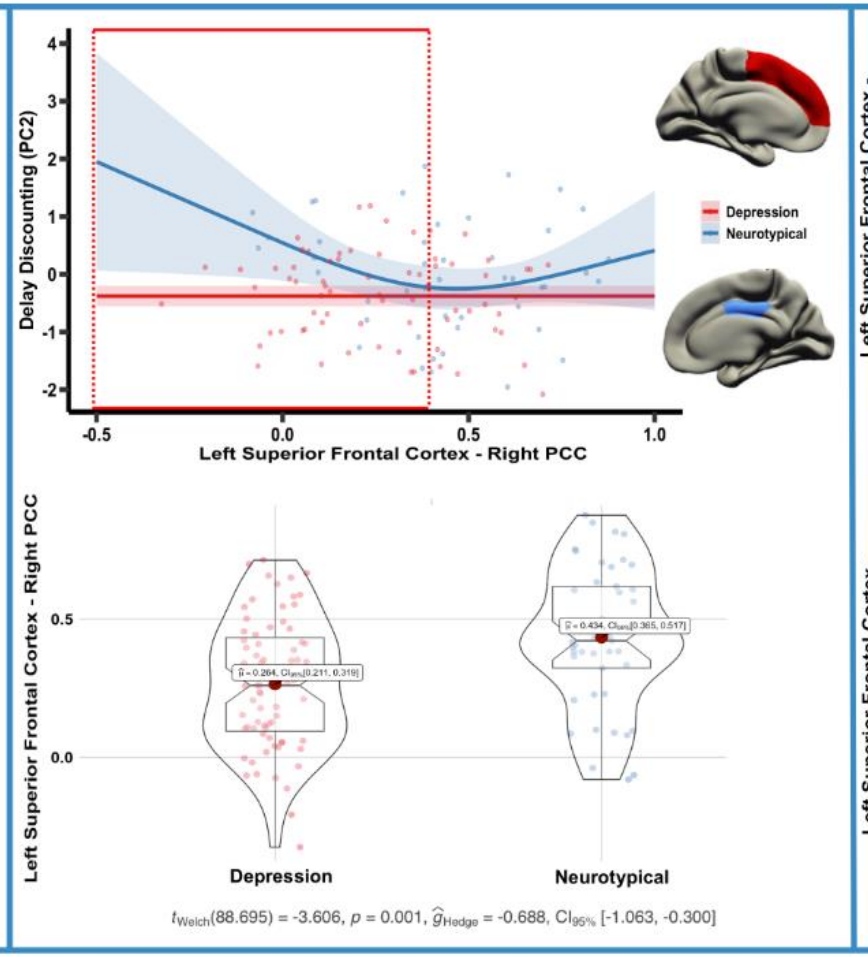
Learning Disorder – Male

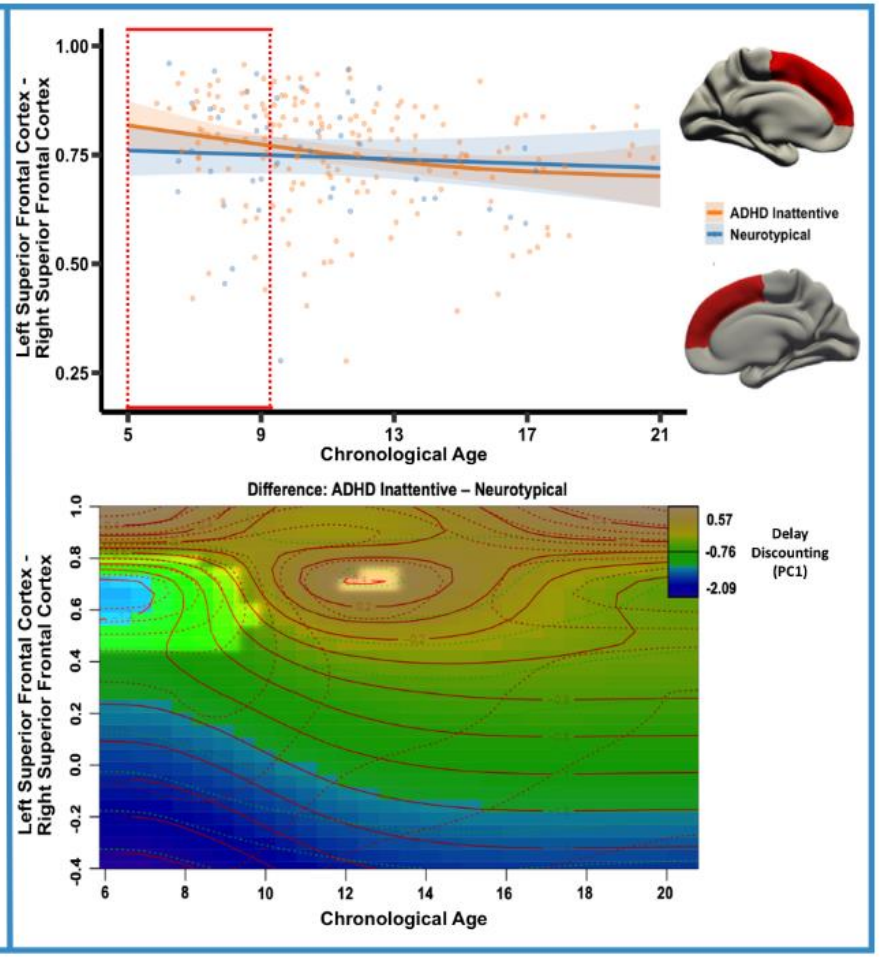




Functional Connectivity Results



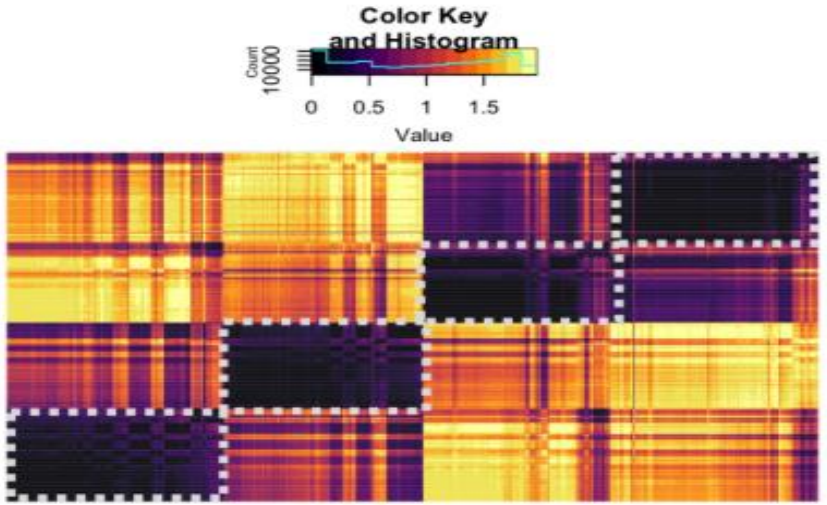


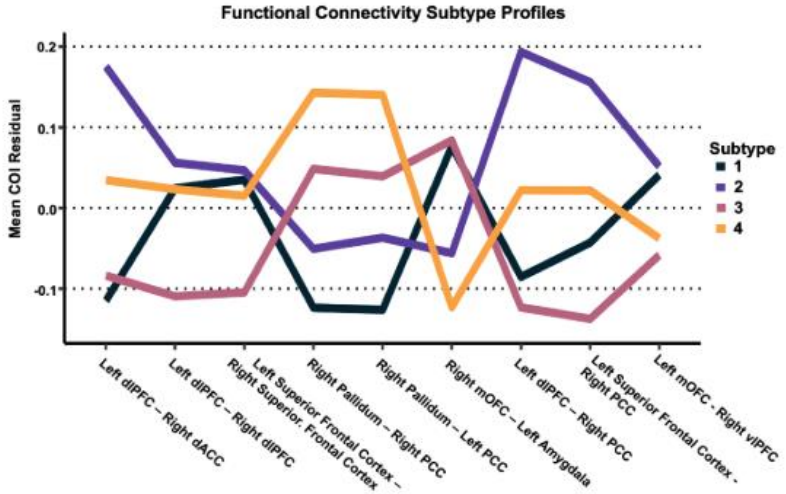


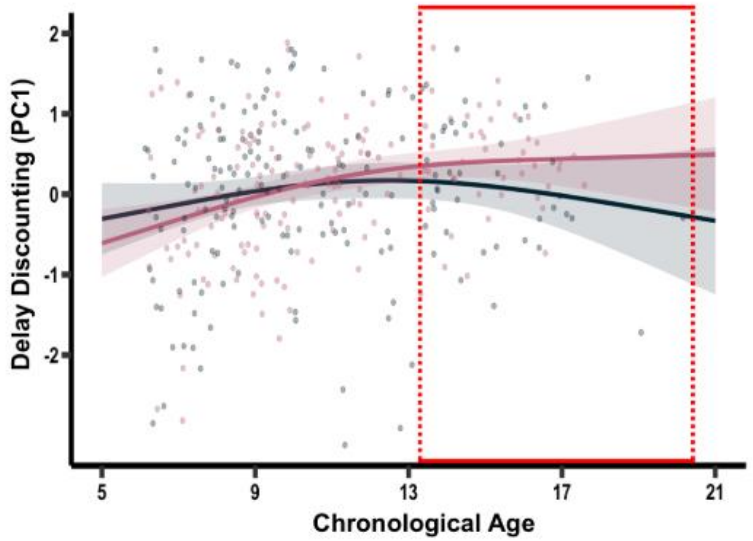
Subtypes

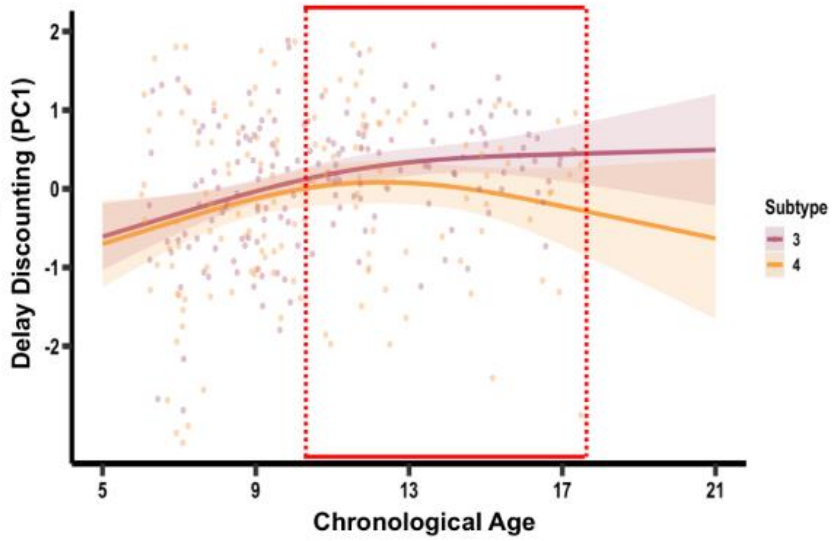
Functional Connectivity Subtypes

**Considering re-running this using the non age regressed correlations and splitting sample into bins.

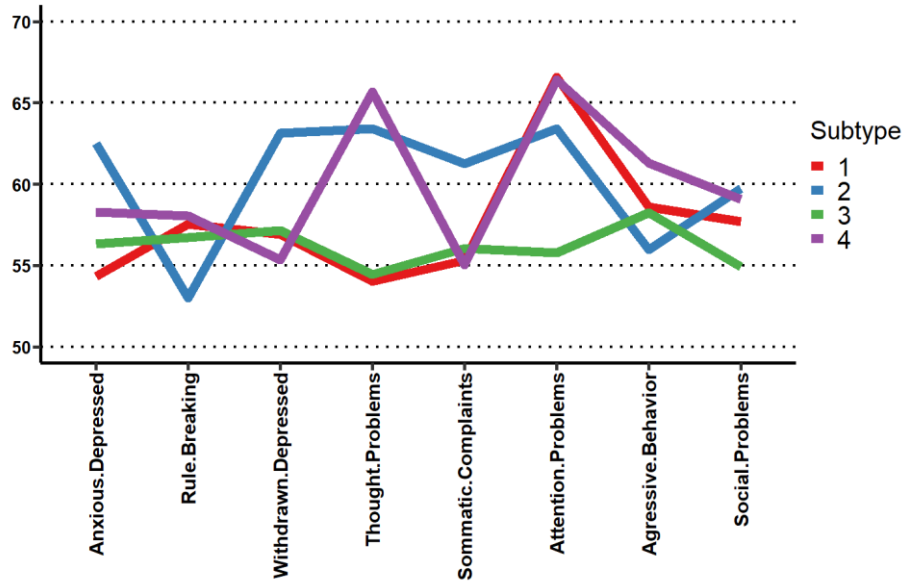


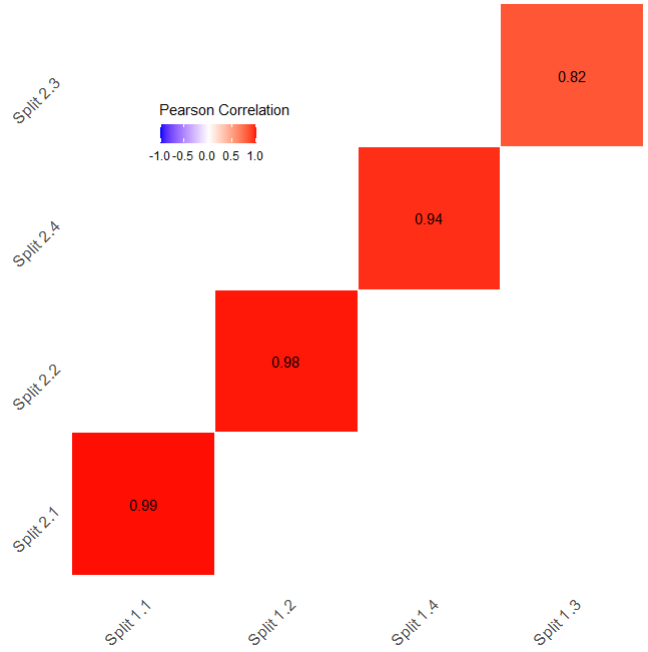




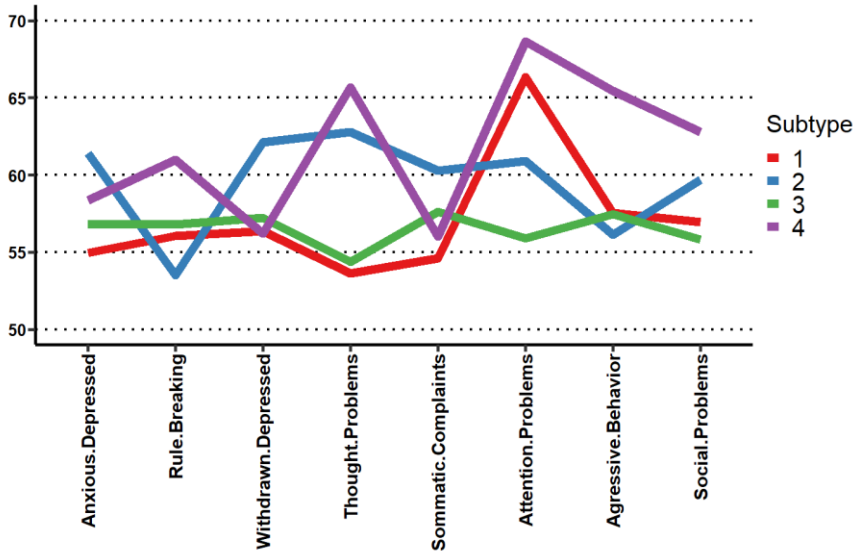


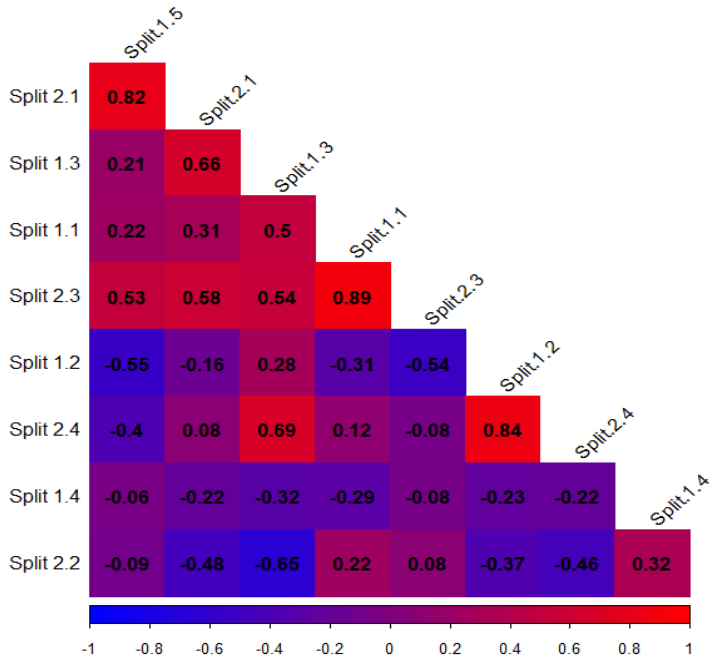
Split 1





Split 2





Next Steps:

- Bootstrapped Models
- Including covariates: SES, IQ, Symptomology
- Looking at Diagnosis discounting profiles within Subtypes?
- Adding Release 8 functional connectivity data?
- Bin FC for Subtyping?
- Do we stay with the Splits for the CBCL Subtypes or run the entire data bootstrapped?

Missing from Slides:

- SES Differences
- Symptomology Differences
- More FC Results