Additional Figures

Functional brain network development during childhood

Figure S1. Replication in an alternate parcellation

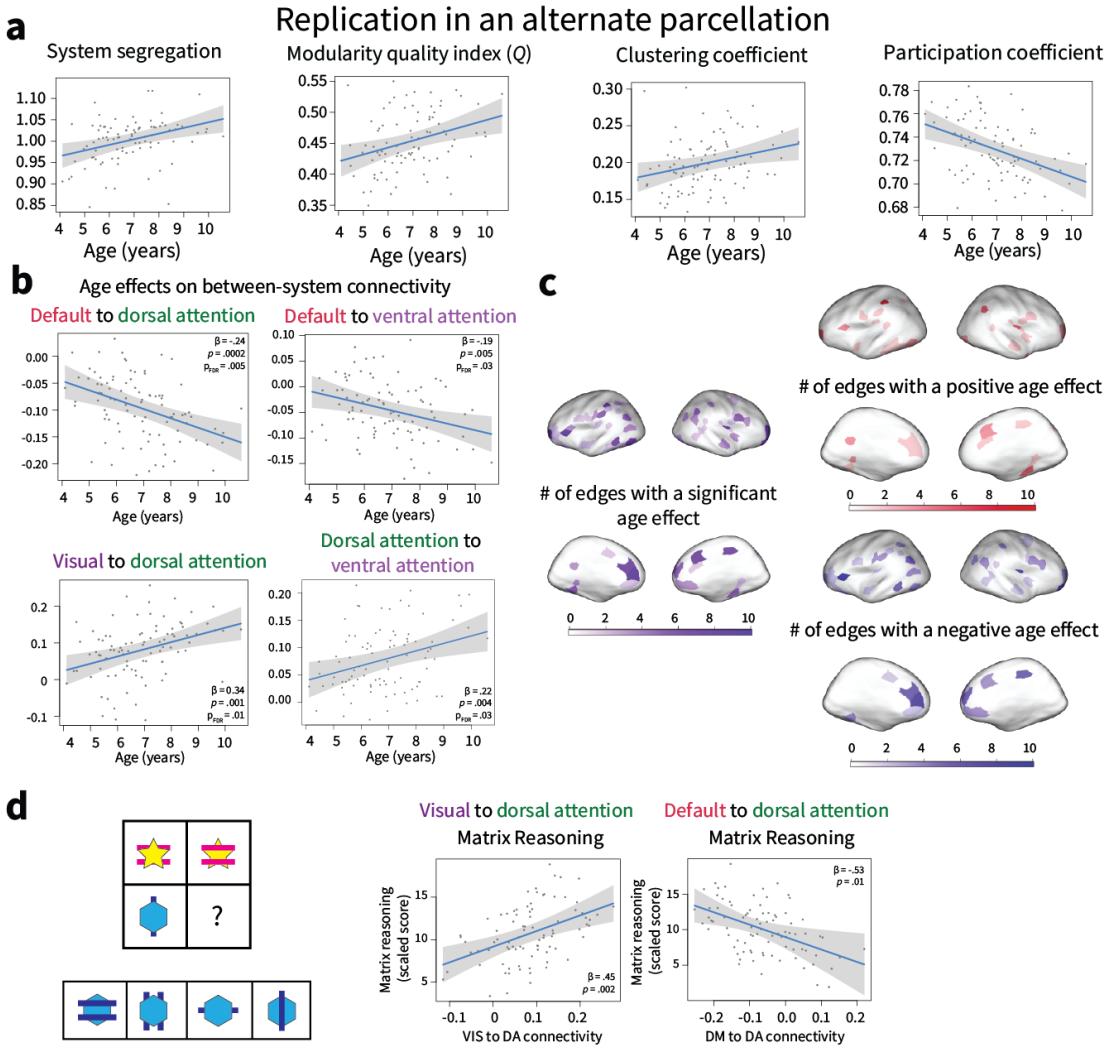

Figure S1. Replication in an alternate parcellation a. Whole-brain measures of functional network segregation (system segregation, modularity, and the clustering coefficient) are positively associated with age. The participation coefficient is a measure of functional network integration and is negatively associated with age. b. Age effects on between-system connectivity. c. Number of edges from each parcel showing a significant positive age association, thresholded at $p_{unc} < 0.001$. d. Number of edges from each parcel showing a significant negative age association,

thresholded at $p_{unc} < 0.001$. d. System-level associations with reasoning. Reasoning is associated with visual to dorsal attention system connectivity and default to dorsal attention system connectivity.

Fig S2. Parcel level age effects: Multiple significance thresholds

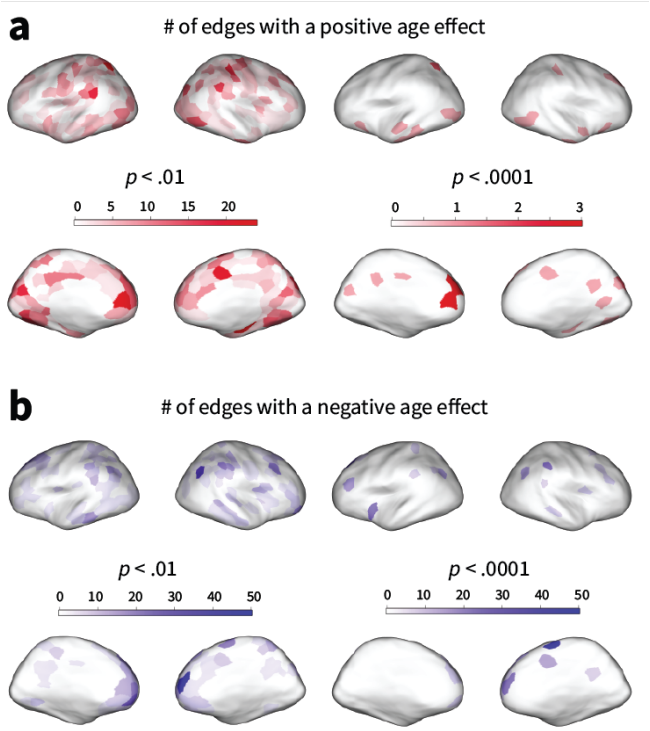

Fig S2. Parcel-level age effects: Multiple significance thresholds. a. Number of edges from each parcel showing a significant positive age association, thresholded at $p < 0.01$ and $p < 0.0001$. b. Number of edges from each parcel showing a significant negative age association, thresholded at $p < 0.01$ and $p < 0.0001$. c. We did not observe significant nonlinear relationships between age and whole-brain or system-level measures of network structure. 7.9% of edges showed significant non-linear effects of age, as compared to 12.5% of edges that showed only linear effects. Number of edges from each parcel showing a significant non-linear effect of age association, thresholded at $p < 0.001$.

Fig S3. Parcel level age effects: Non-linear effects

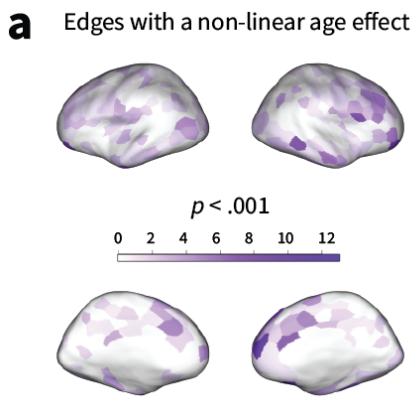

Fig S3. Parcel-level age effects: Non-linear effects. a. We did not observe significant nonlinear relationships between age and whole-brain or system-level measures of network structure. 7.9% of edges showed significant non-linear effects of age, as compared to 12.5% of edges that showed only linear effects. Number of edges from each parcel showing a significant non-linear effect of age association, thresholded at $p_{unc} < 0.001$.