I. Sub-analysis: controlling for Epilepsy syndrome (ILRE/IGE)

1. Adjacency matrices
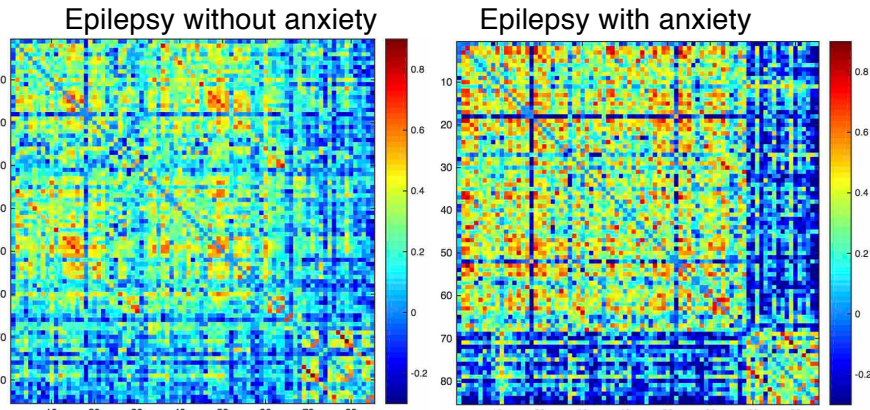
Epilepsy without anxiety   Epilepsy with anxiety

Figure 1a: Unthresholded matrices for epilepsy without anxiety (left), and epilepsy with anxiety (right) after controlling for epilepsy syndrome.
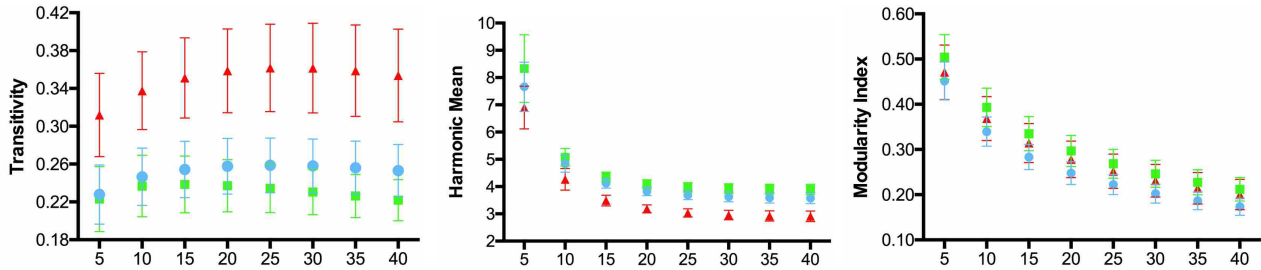
2. Global measures

Figure 1b: Transitivity (left), harmonic mean (middle), and modularity index (right) in controls (blue), children with epilepsy without anxiety (green), and children with epilepsy and anxiety (red), while controlling for epilepsy syndrome.

3. Local measures

Strength   **Eigenvector centrality**   **Subgraph centrality**
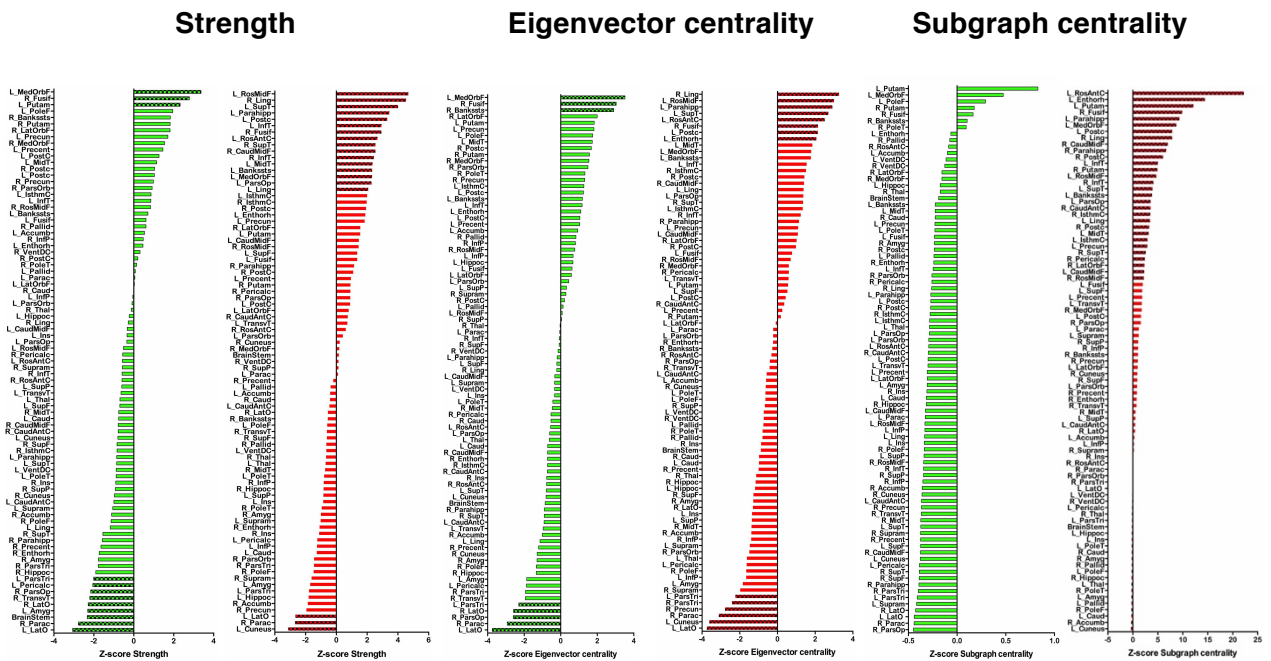

Figure 1c: Ranked Z-score distribution for the strength (left), eigenvector centrality (middle), and subgraph centrality (right) on children with epilepsy without anxiety (green), and children with epilepsy and anxiety disorder (red).

II. Sub-analysis: controlling for AED

1. Adjacency matrices

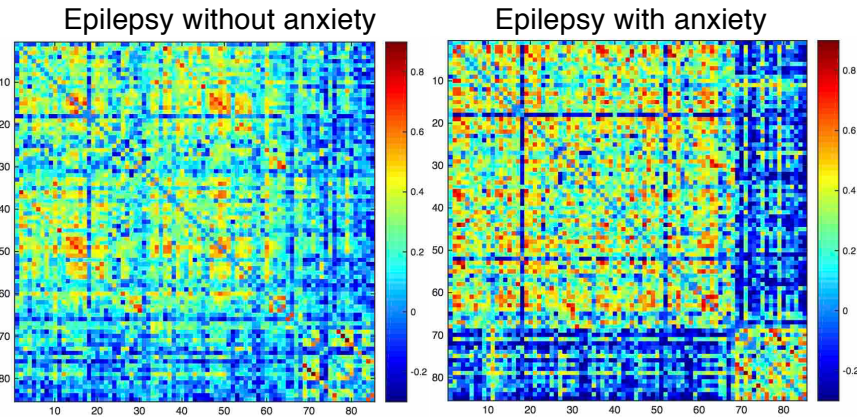Epilepsy without anxiety   Epilepsy with anxiety

Figure 2a: Unthresholded matrices for epilepsy without anxiety (left), and epilepsy with anxiety (right) after controlling for AED.
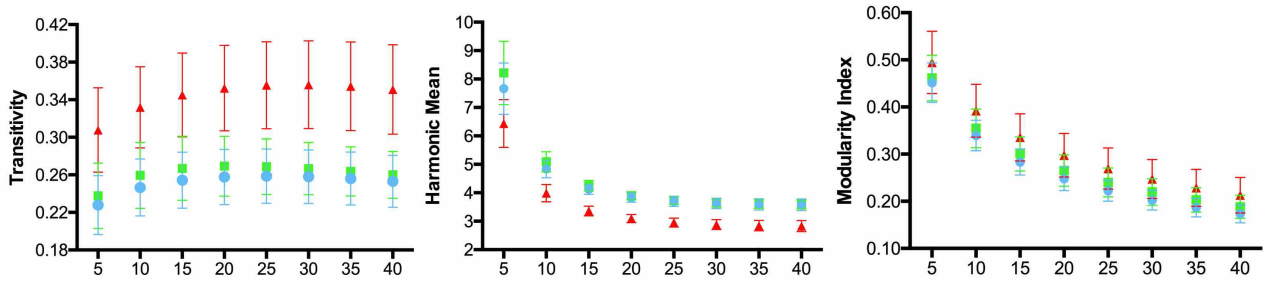
2. Global Measures

Figure 2b: Transitivity (left), harmonic mean (middle), and modularity index (right) in controls (blue), children with epilepsy without anxiety (green), and children with epilepsy and anxiety (red), while controlling for AED.

3. Local measures

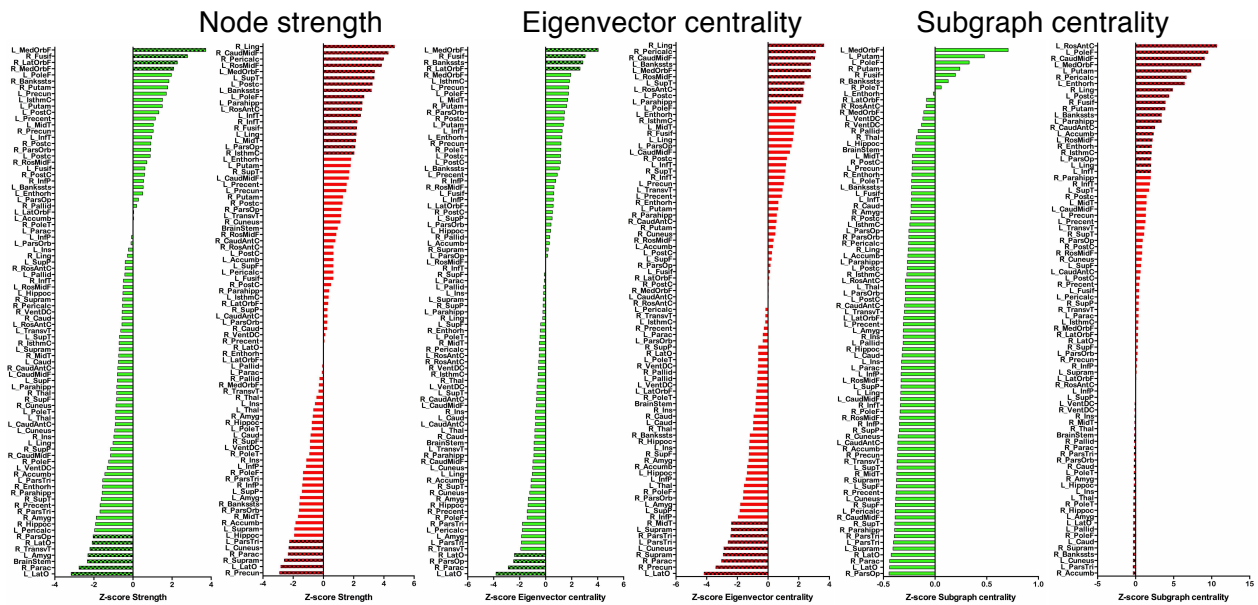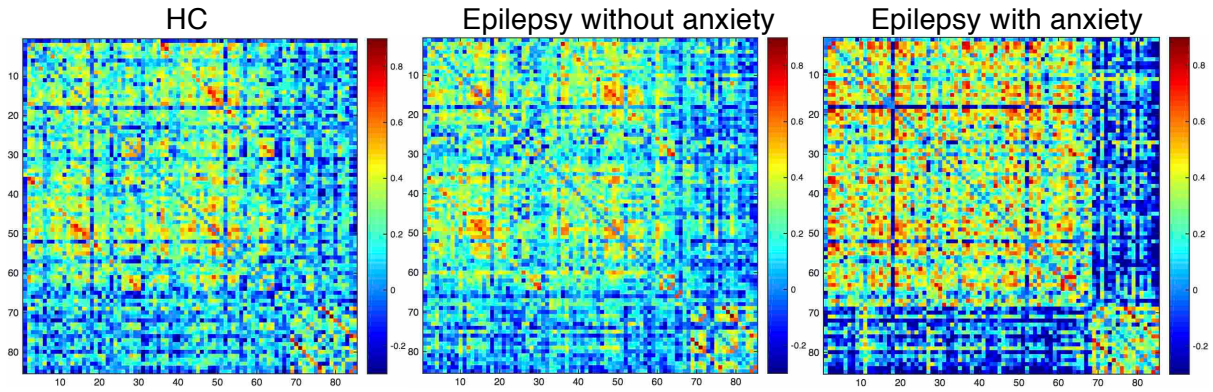Node strength   Eigenvector centrality   Subgraph centrality

Figure 2c: Ranked Z-score distribution for the strength (left), eigenvector centrality (middle), and subgraph centrality (right) on children with epilepsy without anxiety (green), and children with epilepsy and anxiety disorder (red).
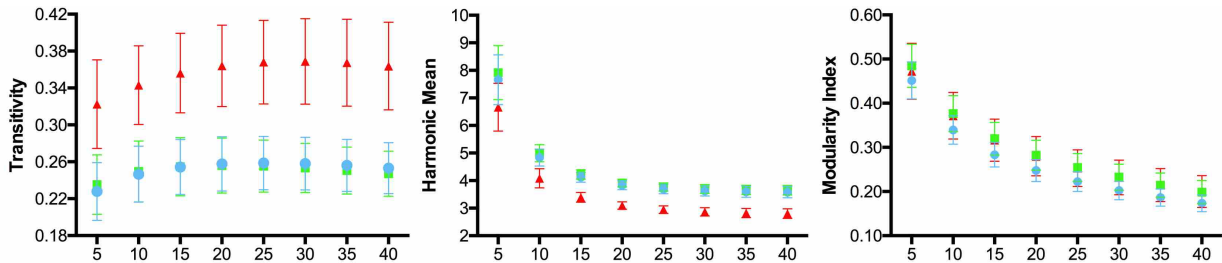
III. Sub-analysis: controlling for gender

1. Adjacency matrices

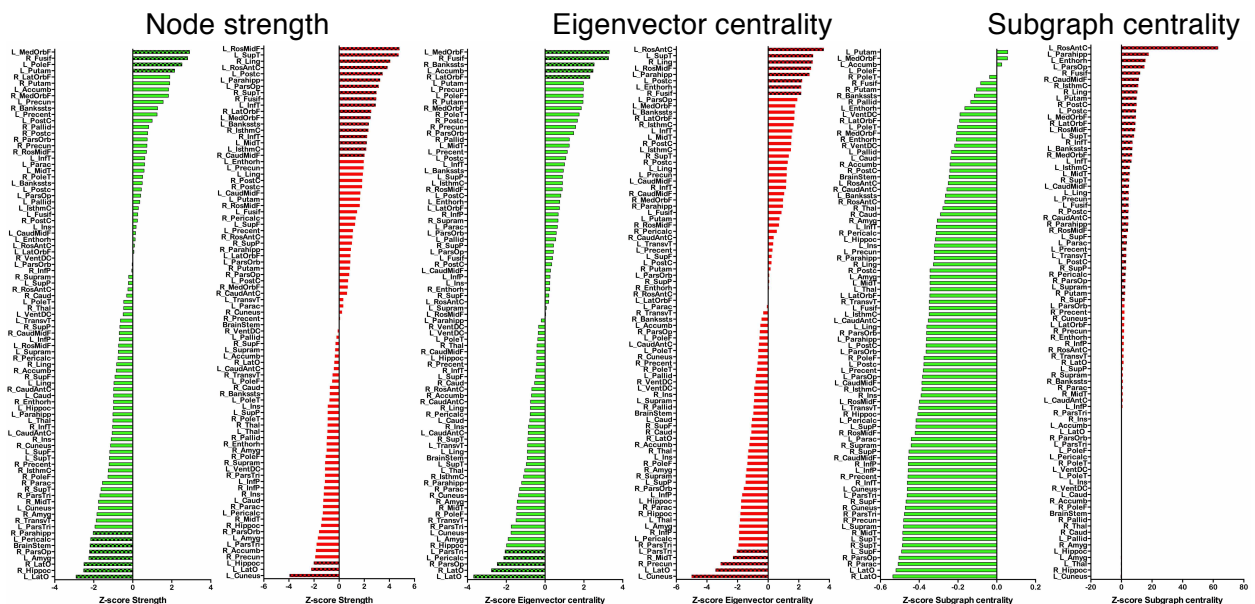HC   Epilepsy without anxiety   Epilepsy with anxiety

Figure 3a: Unthresholded matrices for controls (left), epilepsy without anxiety (middle), and epilepsy with anxiety (right) after controlling for gender.

2. Global measures

Figure 3b: Transitivity (left), harmonic mean (middle), and modularity index (right) in controls (blue), children with epilepsy without anxiety (green), and children with epilepsy and anxiety (red), while controlling for gender.
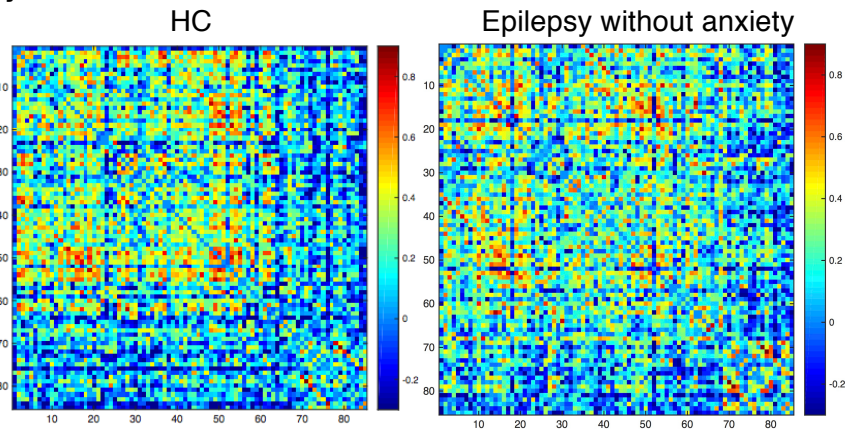
3. Local Measures

Node strength   Eigenvector centrality   Subgraph centrality

Figure 3c: Ranked Z-score distribution for the strength (left), eigenvector centrality (middle), and subgraph centrality (right) on children with epilepsy without anxiety (green), and children with epilepsy and anxiety disorder (red).
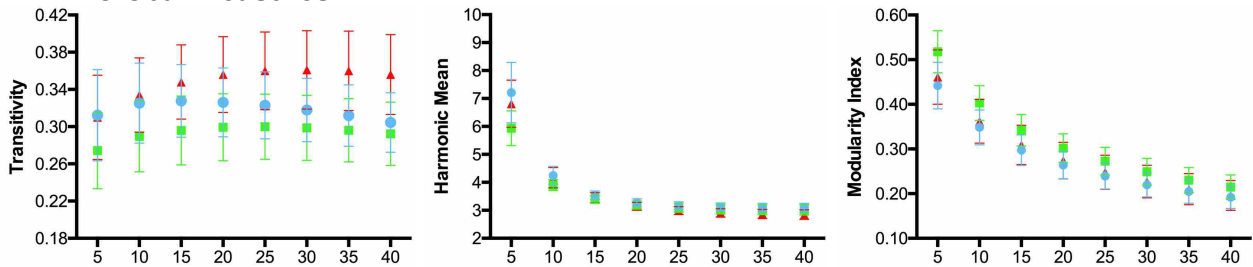
IV. Sub-analysis: each group with 24 individuals
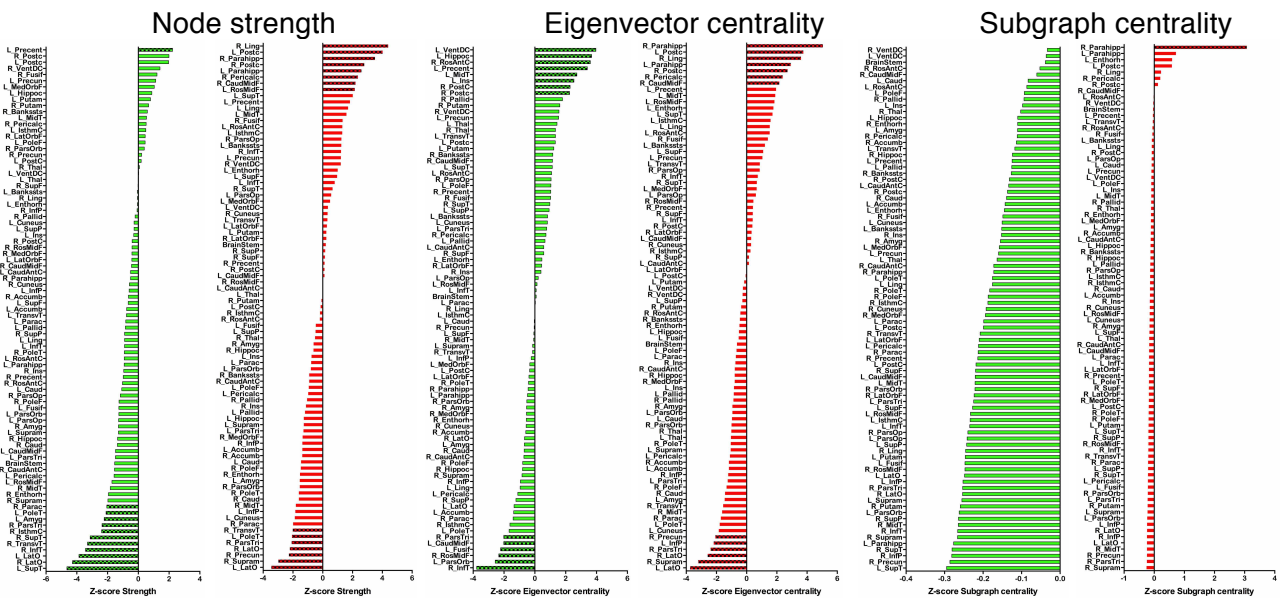
1. Adjacency matrices

Figure 4a: Unthresholded matrices for HC (left), and epilepsy without anxiety (right) after reducing the number of individuals to 24 per group.

2. Global measures

Figure 4b: Transitivity (left), harmonic mean (middle), and modularity index (right) in controls (blue), children with epilepsy without anxiety (green), and children with epilepsy and anxiety (red), after reducing the number of individuals to 24 per group.

3. Local measures

Figure 4c: Ranked Z-score distribution for the strength (left), eigenvector centrality (middle), and subgraph centrality (right) on children with epilepsy without anxiety (green), and children with epilepsy and anxiety disorder (red).