



**Figure S1** The relationship between network metrics and cognitive scores in the AD LA1-LA3 and NC LA1-LA3 groups respectively. The scatter plots illustrate the significant associations between metrics and MMSE (or) MoCA score after Bonferroni corrections. The solid lines show the best-fitting linear regression between metrics and MMSE (or) MoCA score, and the shaded areas represent the 95% confidence intervals (CI). Left panel, AD LA1 vs. NC LA1; Middle panel, AD LA2 vs. NC LA2; Right panel, AD LA3 vs. NC LA3. MMSE, mini-mental state examination; MoCA, Montreal cognitive assessment scale.