1. Split Subjects Evenly To Training & Testing

# 2. Training Stage

2.1 Map normalized gray matter to a matrix

$$X =$$

SCCAN

$$Y =$$

Map PBAC to a matrix

social comportment · empathy · apathy · ritual · disinhibition · agitation

2.2 Maximize SCCAN correlation with respect to the Sparseness Parameter

SCCAN Parameter Selection: Thickness & vs

SCCAN Correlation vs Sparseness
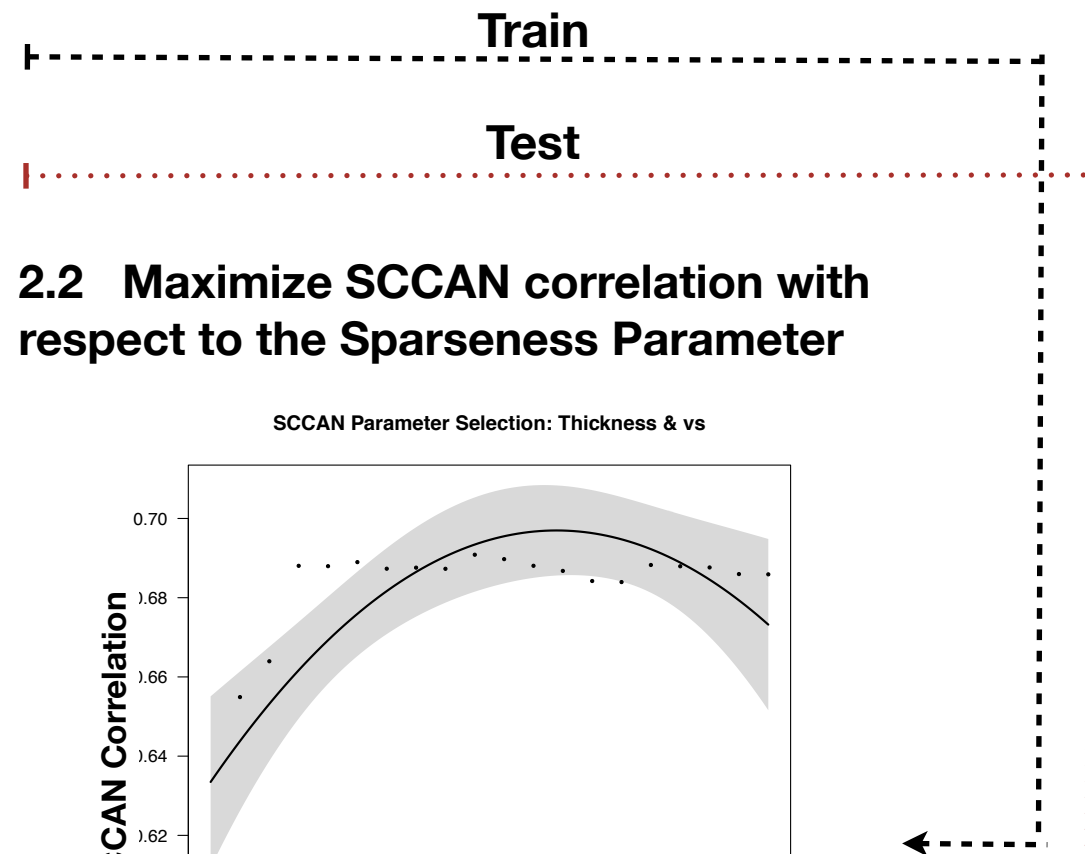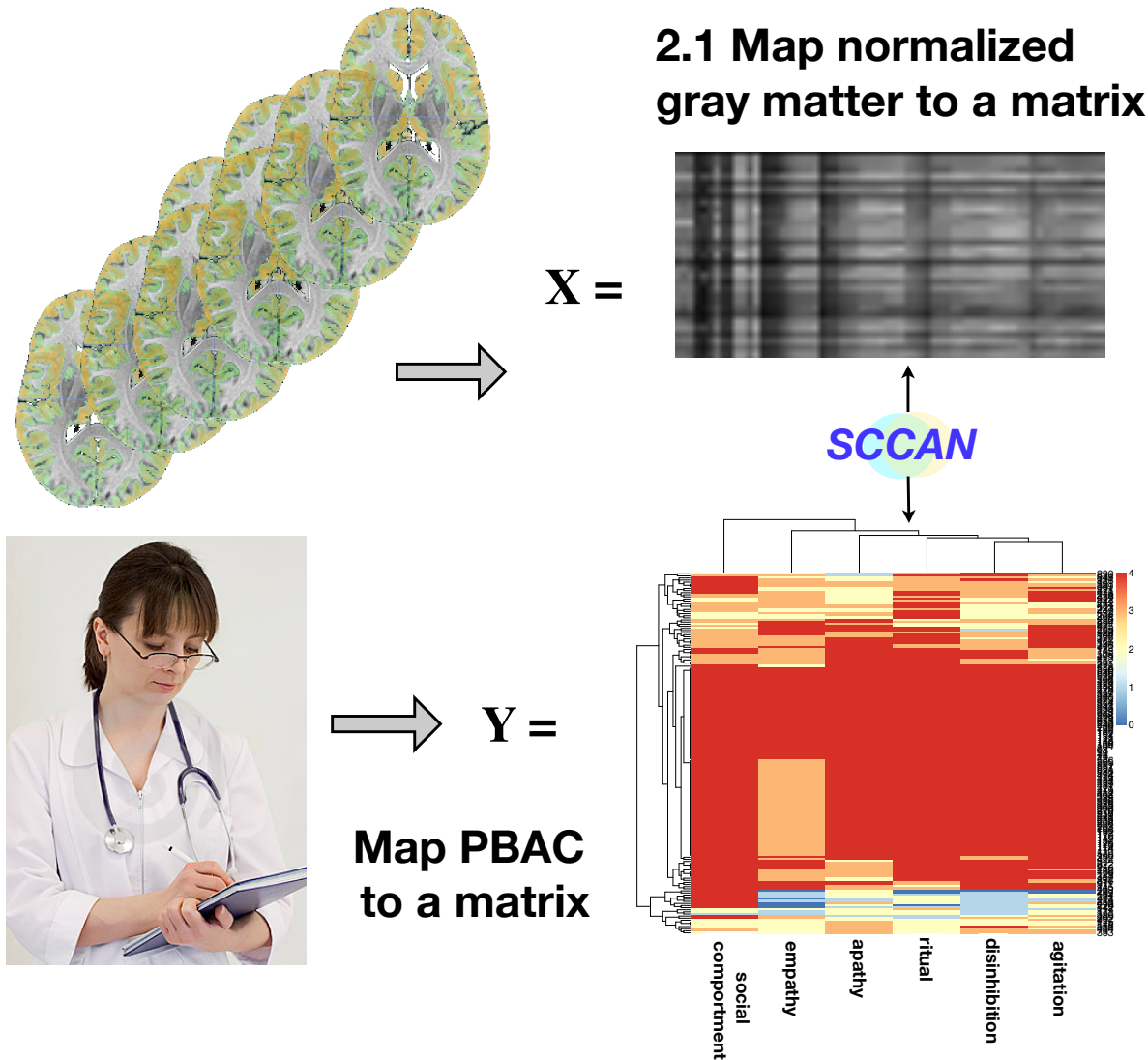
2.3 Store optimal solution vectors.

3. Testing Stage

3.1 Apply optimal solution vectors from 2.3 to test data matrices.

3.2 Find the final correlation between the weighted brain network (i.e. Xx) and the weighted PBAC sub-scale (i.e. Yy).

Test Brain-Behavior Hypotheses from Training Stage

Test Behavioral Scale vs Test Brain Network Summary