Report 1st October

# Run Procrustes analysis

* *Scale up (interpolation) or down (omission) to matrices of the same dimension.*

Have scaled down the outputs for each theta such that the number of nodes for each timepoint is equal to the smallest number of nodes in the series of that theta j. The nodes have been thinned equally across the node index, which seems to be a satisfactory solution in terms of loss of information (minimal) – alternative would be to thin the series where the distance between adjacent nodes in smallest.

Output figures comparing “original” and “thinned” as blue points and orange lines (colour darkens with time evolution) are available in folder “ThinXY” for each theta.

* *Set landmarks.*

Note that in Procrustes analysis: translation, rotation and scaling are performed such that landmarks’ locations are minimized with respect to residual sum of squared errors.

In this scenario, the cells lack any meaningful landmark locations beyond the location of the nodes.

I think we should not use *scaling* in this scenario because that is not something that happens in every simulation i.e. cells growing is information we should not discard.

# Run PCA/ICA