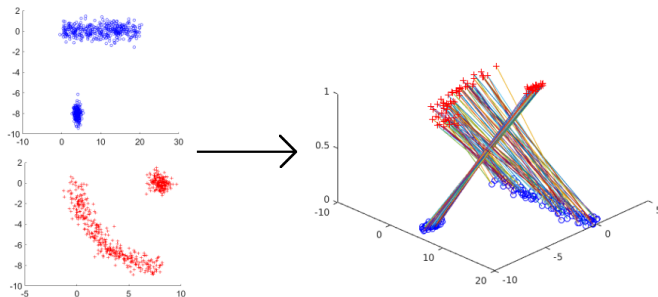


# Graph Matching

Goal: Semisupervised matching of points between similar datasets.

- 1 Represent each dataset as a weighted graph
- 2 Extract most important eigenvectors from graph spectrum
- 3 Use  $\approx 1\%$  of points to align the sets of eigenvectors
- 4 Match points in this common eigenspace



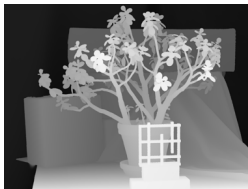
# Change Detection

Idea: Compare graph registration against location registration.  
Difference in registration  $\implies$  change in topology between sets.

With multimodal data, can find what information is portrayed differently between the two sets.



RGB Image



Depth Image



Change Detection