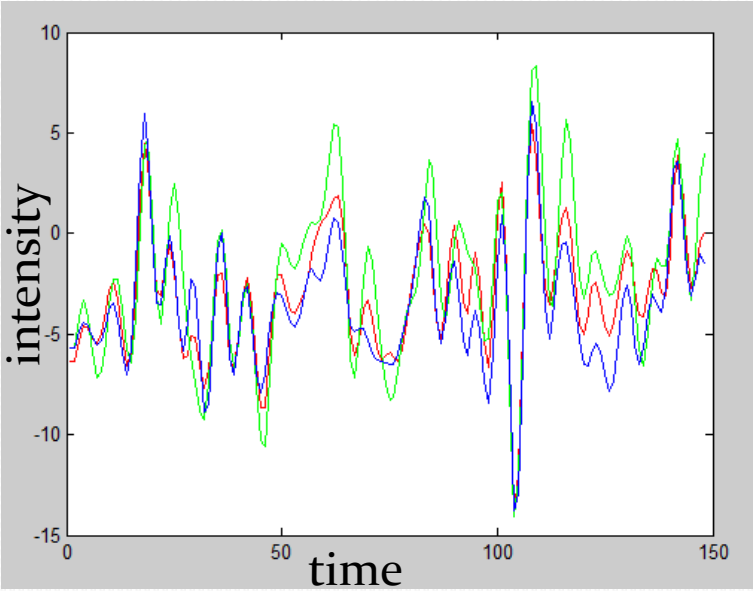
ADHD Classification

Week 5

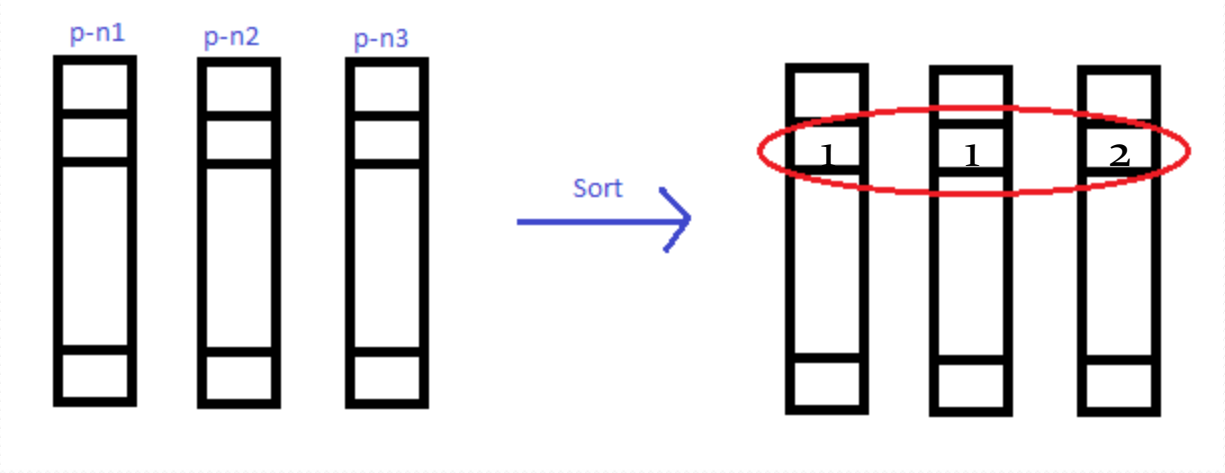
Amy Ko

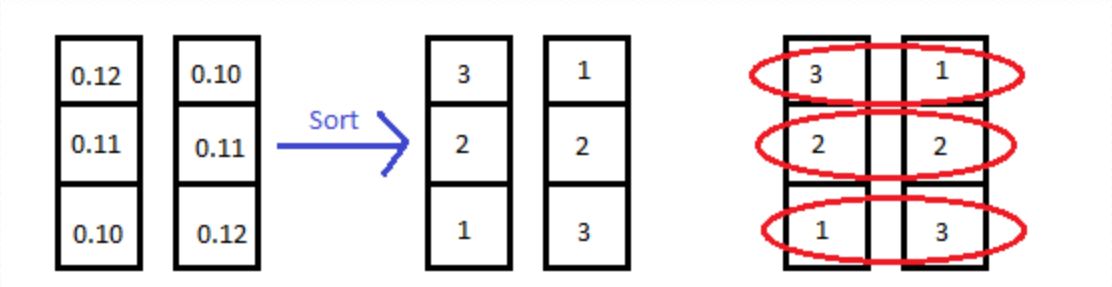
Experiment 1

- KCC Map → PCA → Linear Discriminant Analysis
  - Result: ~55%
  - My ranking method was not effective



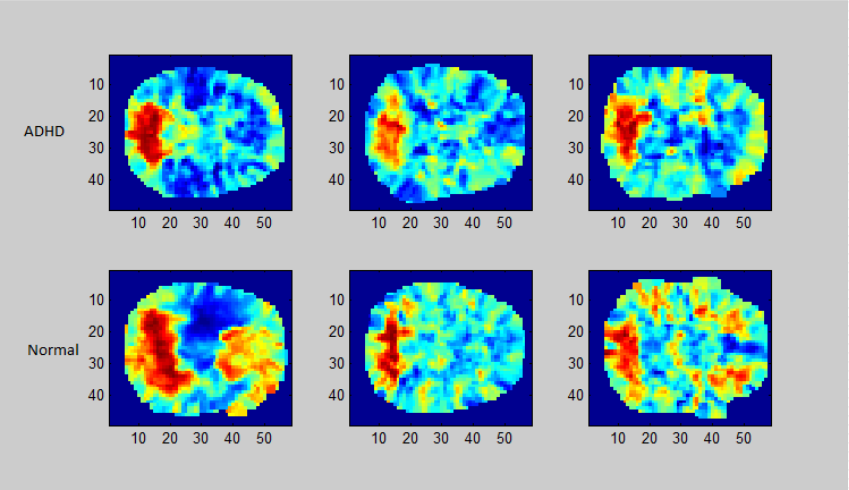
Problem


p-n1
p-n2
p-n3
Sort
1
1
2


0.12
0.11
0.10
0.10
0.11
0.12
Sort
3
2
1
1
2
3
3
2
1
1
2
3

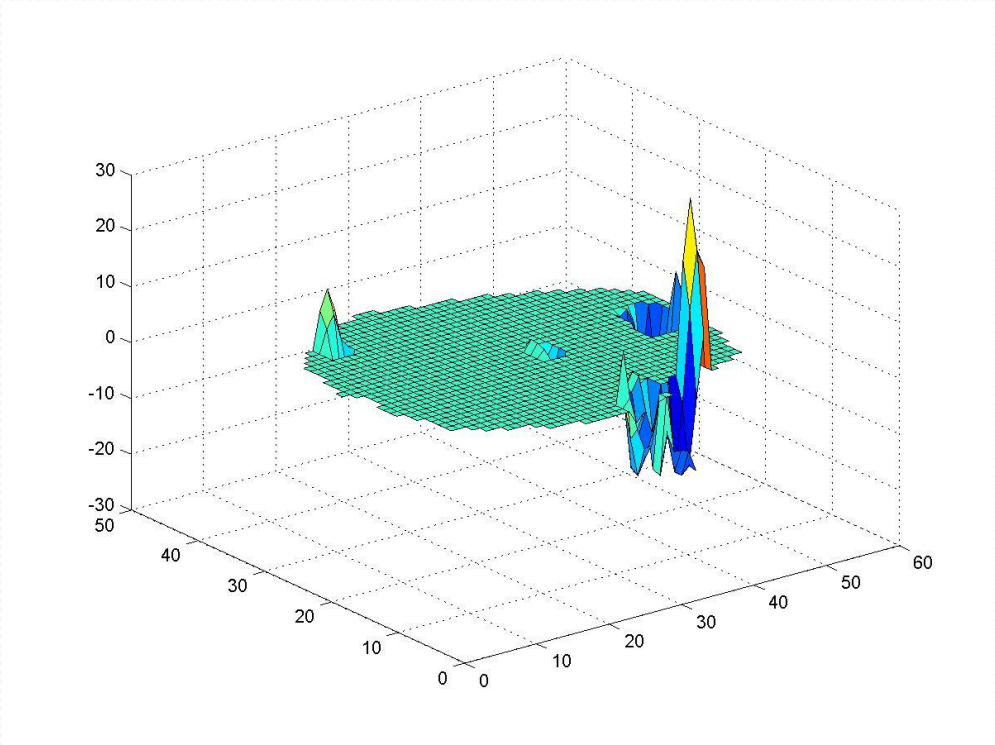
Experiment 2

- Functional Connectivity Map → PCA → LDA
  - Given: time courses for 10 resting-state networks (RSNs)
  - Output: 10 correlation maps (1 RSN vs. all other voxels) for each brain
  - Result: ~65% for 3rd correlation map



Experiment 3 (In Progress)

- Extract the most concordant voxels from KCC maps
  - Threshold: 0.7*(max KCC value)



Next Step

- Cross check with Dey's KCC maps for accuracy
- Time correlation between these concordant regions
  - Which regions are in phase with each other?
  - Other patterns?