

Tanya meeting Jun 23:

- visualization
- What is false positive in general n dim case

Truth a_j Measurement a_j Confusion matrix

Fill in the matrix

a_i

Jun 20
 l_1, l_2, l_3 Scaling l_1, l_2 row
 of matrices
 How to exploit translation invariance

$N = 30$ Signal

~~5~~ true 10x2
 5 classes 8x2
~~7~~ ~~trans~~ 7x3
 Confusion matrix 4x4
 9x3
~~5~~

$5 \times (N_1 + N_2 + 1)$

Confusion translation matrix

C_t : Translation 2xN
 Confusion matrix

Molecule size (p, q)

Options for molecule size: (10, 2), (8, 2), (7, 3), (4, 4), (9, 3)

Signal size: $N = 30$

If a_{ij} are entries of molecule

Step: generate iid normal entries for a_{ij}

l_1 scaling

$\tilde{a}_{ij} = a_{ij}$

l_2 scaling: $\tilde{a}_{ij} = a_{ij}$

l_∞ scaling
 $\tilde{a}_{ij} = \frac{a_{ij}}{\max_j |a_{ij}|}$