3/30 NOTES & QUESTIONS

CAN YOU FIND MOTIFS VIA A DYNAMIC PROGRAM?
you would first search for an enumerable set of short motifs: say length 1 with wts $\in [[0, .25, .5, .75, 1]] \times 4$
and look for hits, marking them in a DP matrix.

LOOK AT MOBY DICK dynamic programming for finding motifs using a dictionary evaluated using the viterbi algorithm

some woman, maybe named gupta researched how to turn it into pwm

- "CHECK OUT MOBY DICK" "DAVE

3/30 GANN NOTES AND QUESTIONS

- Evolving artificial Neural Networks - YAO 1999

  claim: neural network/GA with crossover is not an effective way of training topologies.

  tried and true: using neural network/GA approach to find global optima and then fine tune.

- Architecture evolution

  A couple of paradigms for architecture evolution:

  1) direct encoding applying mutation to a connection matrix (or the upper triangular elements of such a matrix.
  2) indirect encoding. Harp et. al [152], [156] use a blueprint method (like mine