

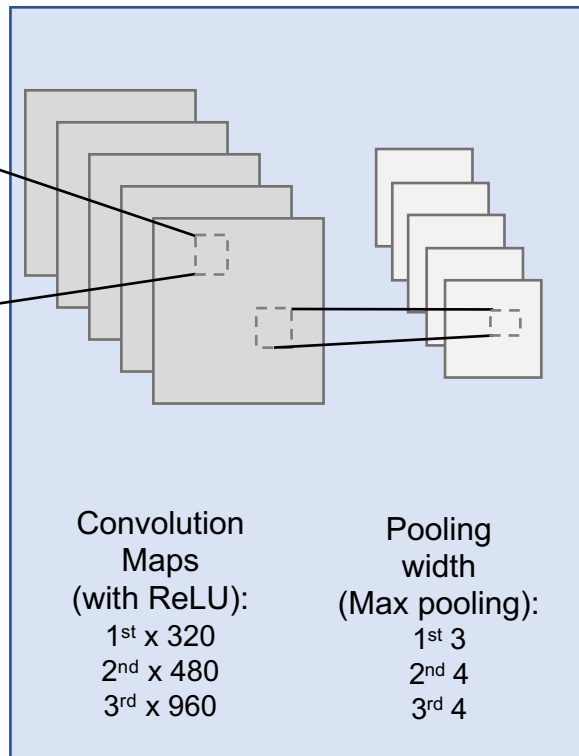
Input layer:
one-hot code matrix
(1000 x 4)

A	1	0	0	0
G	0	0	1	0
T	0	0	0	1
G	0	0	1	0
A	1	0	0	0
G	0	0	1	0
T	0	0	0	1
C	0	1	0	0
A	1	0	0	0
T	0	0	0	1
T	0	0	0	1
A	1	0	0	0
C	0	1	0	0
T	0	0	0	1
A	1	0	0	0
G	0	0	1	0
G	0	0	1	0
A	1	0	0	0
G	0	0	1	0
T	0	0	0	1
	A	C	G	T

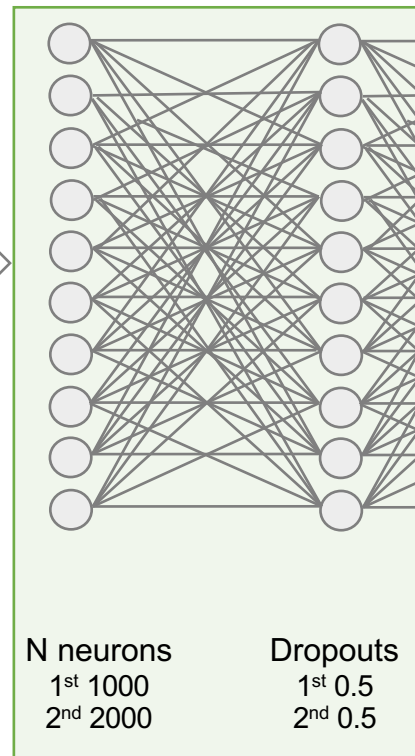


Convolution
filter sizes:
1st 7
2nd 7
3rd 7

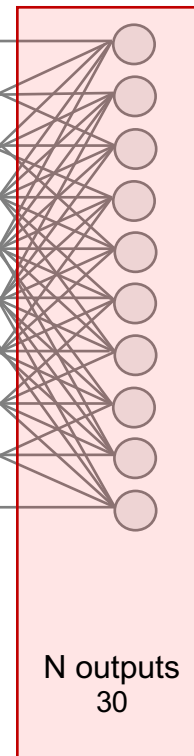
Convolutional +
pooling layers x3



Fully connected
hidden layers x2



Multitask
prediction layer



ATAC-seq
CTCF
DNase-seq
FOXA2
H2A.Z
H2K4me1
H2K4me2
H3K27ac
H3K27me3
H3K36me3
...