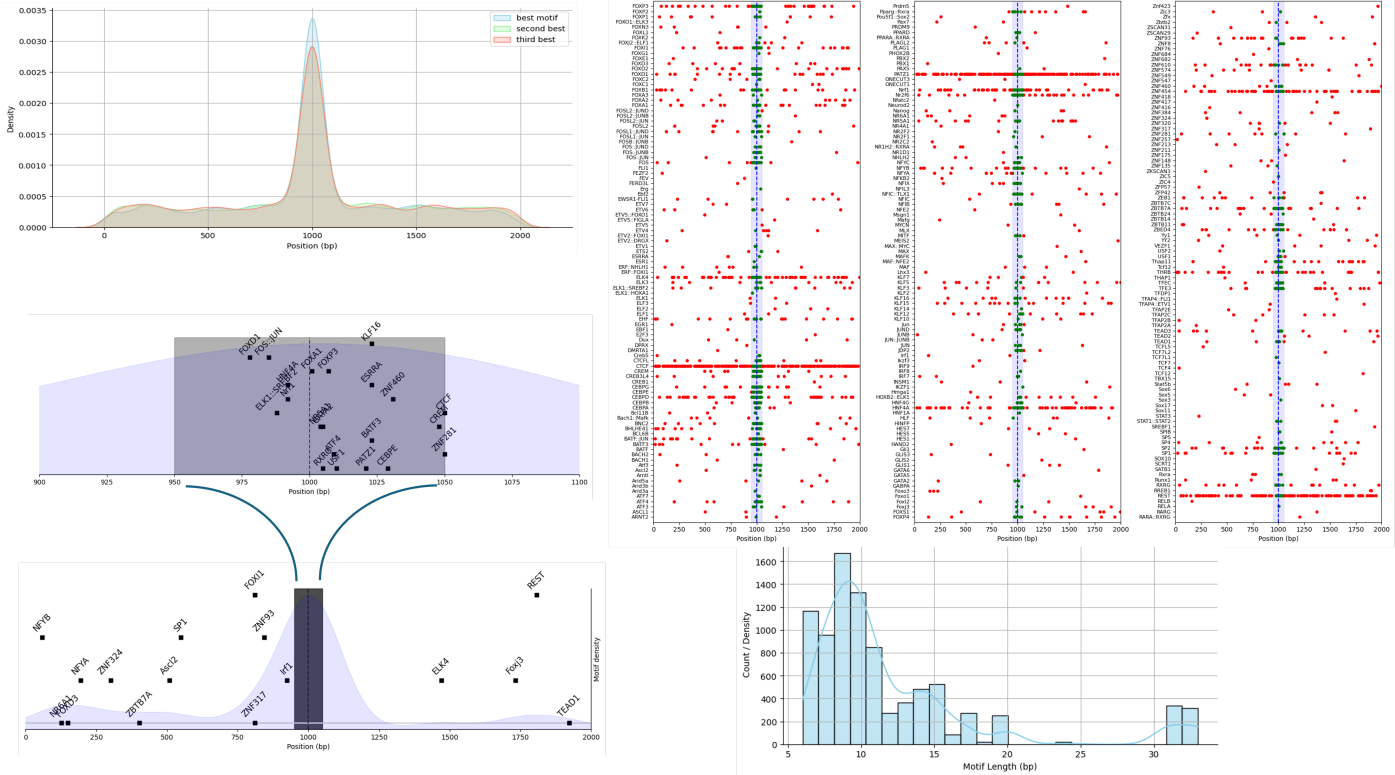
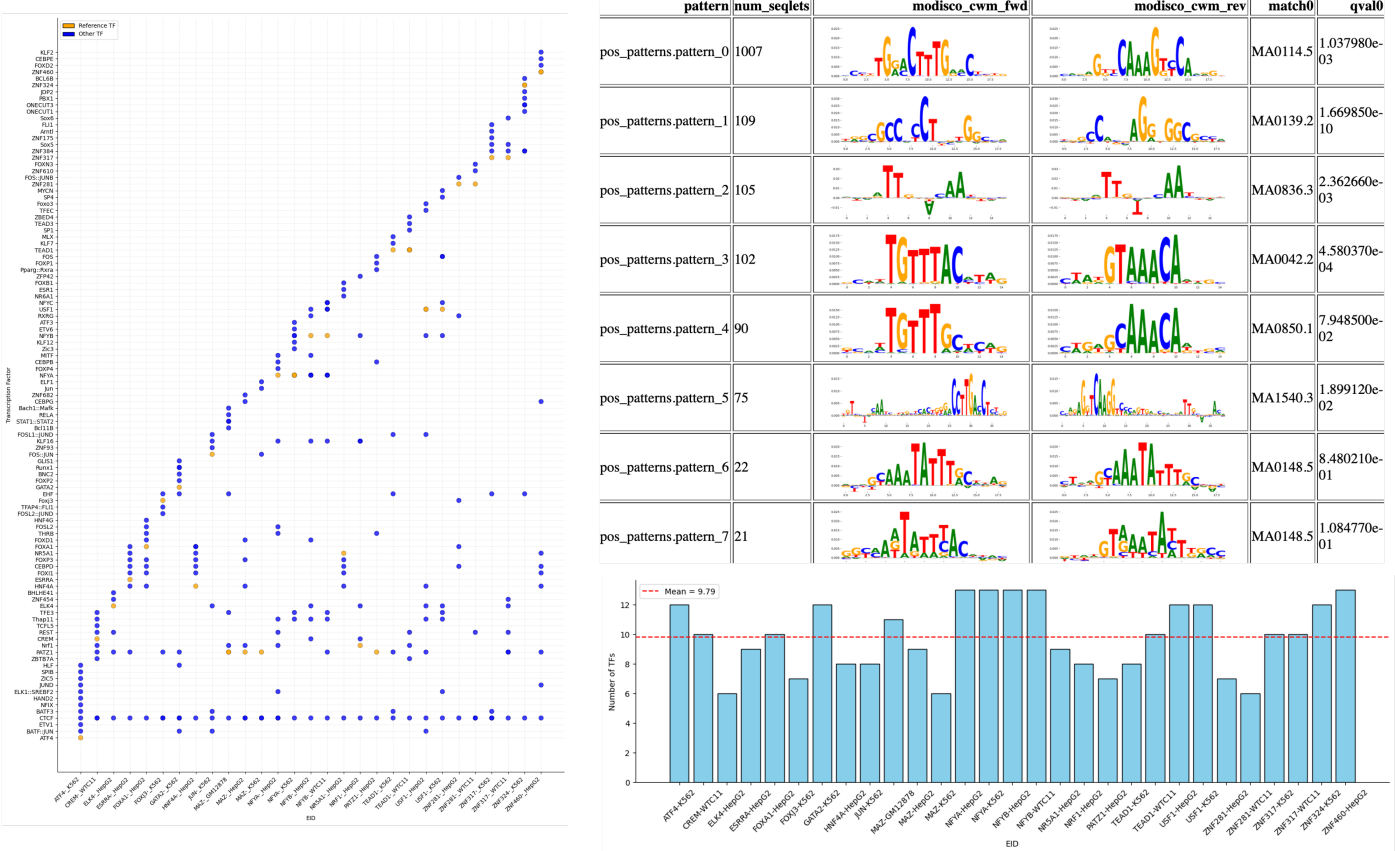


Weekly Report

This week, I analyzed the output from the DeepFootprinting framework, concentrating on the positioning of the identified TF motifs in relation to the inputted ChIP-seq peaks. This analysis allowed me to generate the plots below, illustrating the primary locations of the TF motifs, their specific placements, and their distributions. Additionally, we can determine whether each TF motif is centered, outcentered, or exhibits both characteristics. I also included a histogram that illustrates the lengths of the motifs.



I performed another analysis focusing on additional TF motifs beyond the one of primary interest (i.e., the expected TF associated with the ChIP-seq peaks). This analysis enabled me to create figures that illustrate which TFs are present, the number of patterns (e.g., areas of significantly high contribution scores) within a set of peak sequences, and a specific example of the output for the TF HNF4A, displaying the various matches of TFs.



Minor tasks: Prepared the repository TREDNet v1.1 for Jeremy, Meeting with Jeremy, and Journal Club.