

## **Exceptional Words Counting**

Mireille Regnier

Inria-FRANCE

We present two recent works to assess the significance of exceptional words, such as Transcription Factor Binding Sites in co-regulated genes. First, one designs *AhoPro*, a variant of a classical automaton, *AhoCorasick*. A nice feature is the possible assessment of the significance of a weak signal when exists a strong signal. Space requirement is minimized in a second approach, that relies on a so-called *overlapping graph*. Some applications to *Drosophila* regulation are presented.