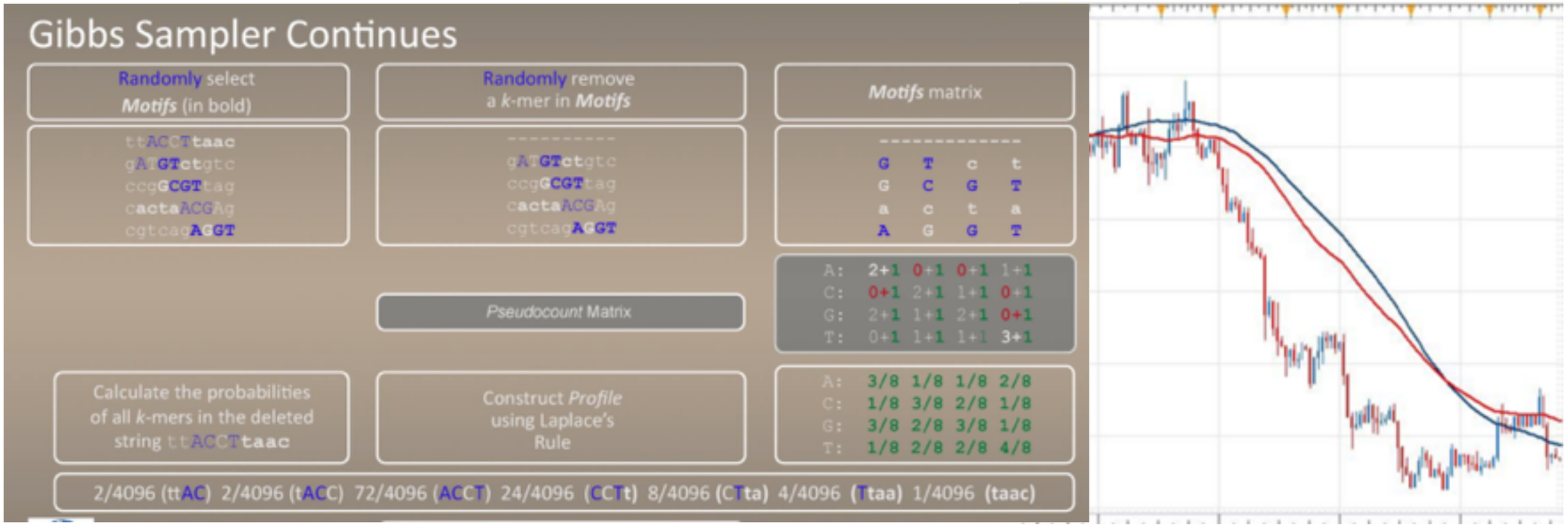
Dynamic Gibbs Sampling to find motifs in DNA



- The Idea: use random guesses for aggressive search but as we near closer to the correct motif use a more deterministic approach
- Deterministic = min(HammingDistance(Consensus,k-mer))
- Conservative = random(Deterministic, Gibbs)
  - Probability of Gibbs = (tan-1(Score_Slope))/90
  - Probability of Deterministic = 1 - Gibbs
- Score_Slope = Is the average slope of the graph of the score at each iteration