Announcements 3/5

• Optional reading for Thursday
  – Sakakibara et al. 1994
  – Klein and Eddy 2003

• HW2 due Monday
Midterm study guide

• Midterm on Tuesday, March 12 in class
• Two sheets of notes allowed
• No calculators
• Covers material through Thursday’s lecture (SCFGs)
Midterm study guide

- Content includes (but is not limited to) material from lecture and required reading:
  - Bailey and Elkan (1995)
  - Lawrence et al. (1993)
  - Elemento et al. (2007)
  - Li et al. (2010)
  - LeGault et al. (2013)
  - Trapnell et al. (2010)
  - Chapter 9 and Section 10.1 and 10.2 in textbook

- Optional reading will also be helpful, provides background, details, and motivation not written in lecture slides
Midterm study guide

• Focus on terms, concepts, strengths/weaknesses, algorithmic strategies
  – Why or in what cases would we use one method or experimental technology instead of another?
  – How does method X compare to method Y and what are the unique advantages of each?
  – What is important concept Z (e.g. mutual information)?
  – What does a method optimize? How does it converge?
  – What assumptions does a method make?
  – How does a method implement important concepts and strategies?
  – What do we need to consider when analyzing a particular type of data?
Midterm study guide

• Example questions
  – What different assumptions to the MEME OOPS and ZOOPS models make?
  – Which motif-finding algorithm is best if the user wants to account for the probability a motif was generated by the background distribution?
  – Draw an example of a dependency among two continuous variables that could be detected with mutual information but not Pearson’s correlation.