BMI/CS 576 – Day 9

- Today
  - Pairwise sequence alignment by hand
    - Global, local, and global affine-gap
- Thursday
  - Intro/review of probability
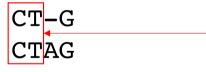   - random variables, independence, distributions

HW

- HW1 was due yesterday
  - Consider using your "slip" days if you turn it in late
- HW2
  - posted soon (likely tomorrow)
  - due around Oct 23
  - sequence alignment

Quiz

Below are two optimal *global* alignments of pairs of sequences (the sequences are different for the two alignments), with a scoring scheme of match = +1, mismatch = -1, space = -2. Which of these alignments are also optimal **local** alignments?

Alignment 1

```
CT-G
CTAG
```

This part of the alignment is a local alignment with score = +2, compared to the score of the global alignment, which has score = +1

Alignment 2

```
ACT-GAC
ACTAGAC
```

Only alignment 2