Introduction to Bioinformatics – Final Thoughts

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Fall 2016
Where we’ve been

Genome assembly

Sequence alignment

Phylogenetic tree reconstruction

gene sequences

alignments

Midterm

Gene and other annotations

Gene clusters

Network inference

Clustering

High-throughput biological measurements

Genome annotation

Final
The many facets of bioinformatics

- Molecular biology -> data and tasks
- Statistics -> models and objective functions
- Mathematics -> structural insight
- Computer Science -> efficient computation
Next steps

• BMI/CS 776: Advanced Bioinformatics
  – Taught in the spring semester

• Seminars
  – CIBM training program seminar
  – BMI departmental seminars

• Get involved in research
Thanks!