

CPR/SE 491 Weekly Report MAY 15-10 Week 1

Advisors: Ruchi Chaudhary

Client: Gordon Burleigh

Members (roles): Ben -- Team leader

Cole -- Team Key Concept Holder

Ian -- webmaster

Paul -- communication leader

Project Title: Gene Tree Improvement Tool / TreeFix

Weekly Summary

The main goal this week was to get our project plan written, edited, and submitted. The team met together last week on Sunday to go over what sections to assign to each member, and then met again briefly on Friday before our advisor meeting to review what had been done. During the meeting on Friday, we went over what was written already for the project, and peer reviewed it, looking over the overall content of the paper as well as the quality of the writing. There were still questions we had over some of the phylogeny related aspects of the project so we wrote them down and asked our advisor to clarify them during our meeting. The group met together again on Sunday to do a final review of the project plan, and consult the rubric to confirm that we had all of the required sections.

Meeting notes:

11/7 Group Meeting with advisor

Duration: 15 min **Members Present:** All

Purpose and Goals:

To update the advisor on our progress and schedule for the rest of the semester. We went over our work on the project plan thus far, and asked a few questions clarifying some of the phylogeny aspects about the project, such as if both gene and species trees can be non-binary. We also talked about upcoming deadlines like the project plan, and the presentations at the end of the semester.

11/9 Group Meeting

Duration: 1 hr 15min **Members Present:** All

Purpose and Goals:

Completed project plan version 2. The group got together Sunday to go over the work already completed on the project plan, and to complete some of the final sections we had left to write (mainly the conclusion). Each member peer reviewed the sections, and edited each one to make them more clear and concise.

Pending issues

1. Implement search algorithm for duplicate genes, and rf cost algorithm.

Plans for next week

Cole - continue work of search algorithm to identify duplications

Ian - continue work on rf cost algorithm.

Paul - finish up and turn in project plan version 2, start looking into generating simple test cases to run in TreeFix.

Ben - continue working with Ian developing MulRF algorithm

Individual Contributions(this week)

Cole Poffenberger (6.5) -

started implementing a search algorithm and worked on the second version of the project plan

Paul Leichty (7)

wrote the systems requirements section for project plan, attended meetings, started looking into how to run and analyze test cases for TreeFix.

Ian Ray (6) -

worked on project plan, rf cost algorithm implementation, and updated web page. rf cost algorithm will require some white box testing to figure out what kind of input/output it needs. It obviously takes in gene/species trees, but there are certainly some subtle nuances about them that must be known. These nuances include how to access node data, and what is going on with the data manager bootstrapping.

Ben Streit(4) -

Helped complete the final version of Project Plan v2 and attended meetings

Total contributions for the project

Cole Poffenberger (30.75 hrs) ,

Paul Leichty (32.5 hrs)

Ian Ray (35.5 hrs)

Ben Streit(31.25 hrs)