Project Plan

Milestones	Deadline	Tasks
#1 Complete assigned projects left from last semester.	2/12	● Implement fairness for fair completely random forest algorithm (James) ● Improve accuracy issues with fair completely random forest algorithm. (James) ● Find dominant feature that affects bias (Rui) ● Find intersectional bias in math and language sets. Work on transfer learning. (Kun) ● Complete FERPA training (James, Rui, Kun) ● Begin process of accessing University dataset and clean data. (Kun)
#2 Work on improving algorithms we have been developing. Start experiments on University data.	2/26	● Begin running experiments on University dataset to discover bias. (Kun) ● Implement algorithm to automatically intersectional bias detection. (Rui) ● Investigate fairness tradeoff in other models (James) ● Start replicating existing fair random forest to compare algorithm against (James)
#3 Begin process of combining seperate tasks into one algorithm. Continue experiments on University data.	3/11	● Begin combining intersectioanl bias detection with fair completely random forest algorithm. (James and Rui) ● Run experiments to compare our fair algorithm with existing fair random forest algorithm (James) ● Run fairness experiments using the completely fair random forest algorithm on the University dataset. Compare with traditional algorithms. (Kun)
#4 Finish combining seperate tasks into one algorithm.	3/25	● Finish combining intersectional bias detection with fair completely random forest algorithm. (James and Rui) ● Prepare summary of inital experiment findings. (Kun) ● Discuss findings on Unversity dataset with

		registrar. (Kun) ● Discuss future use of fairness algorithm with registrar. (James and Rui)
#5 Fix any bugs and issues with the algorithm.	4/8	● Fix bugs and issues with the combination of the fair completely random forest algorithm. (James and Rui) ● Prepare algorithm to be useable for registrar's office (James and Rui) ● Prepare data results in well formatted tables. (Kun)
#6 Finish the project and collect final results.	4/22	● Finish collecting any data results needed. (James, Rui, Kun) ● Finish Powerpoint presentation for undergraduate research day. (James, Rui, Kun)