posible meetings wednesday 6:00  
  
network interactions vector  
-implementing algortihsm into a pyhton or R package, can be published online to conferences. (testing on data analysis, which is interesting, can find novel findings)  
  
-follow someone elses algorithms work   
  
based on linear regression, find best sample sets sizes  
-prediction studies, interesting topic. (finding best sample sizes) Regression model  
-calculations can be made  
-python package   
-mathematics and callculations  
-simulations  
-make a model, and generate data based on model  
-since u know the truth, its easier to determine accuracy  
-simulae complex models  
-neural network  
-hard to calcualte prediction accuracy  
-generate data and predict from  
  
-satisfy progress requirement  
-milestones  
-learn materials  
-study repository  
-proposal  
-study plan  
-research goal (understand optimal sample sizes for data)  
-peoblem definition  
-research questions to anaswer  
-plan  
--read and understand materials and problem  
  
-search for literature  
-look at status quo  
-what already in  
-find what difference you can make  
-google scholar (data size)  
-take notes  
  
-write reports and questions  
  
-write timeline idea and deadlines  
  
-how possible is the answer we are gonna find  
  
-learning the math  
-linear algebra symbols  
-latex  
-if quantatative predictions, use predicative mean squeared errors  
-if binary outcomes, use sensitivity and specificity   
  
what do the notations mean? Search what they mean  
what is predicative mean squared errors?  
  
Research is question driven, if u don't know, you have to figure out the background and logic  
  
go through repository, and think of proposal