## Team Norms

* Be **direct but mindful** with problems towards other teammates
* **Respond regularly** on slack/attend regular meetings
* Being **upfront and early** about not completing tasks so we can re-delegate and get help to team members who need it
  + We all want to be on the same page
  + Let the team know you won’t be able to complete a task at least **48 hours before the scheduled due date**

## Tasks

Currently, due Friday 4/16 so we can talk with Just about it:

* Schedule ANN and troubleshooting workshop with Wesley
  + Kaylyn
* Trying to make Josh’s code work
  + Julia and Diego
* Thinking about sampling strategies
  + Kaylyn and Steven and Benedicte
* Thinking about models
  + Kaylyn, Steven, Benedicte, Diego

## 

## Use Cases

Objective: Create and characterize a model to predict yield and purity from isotherm parameters and operating conditions.

Input: Isotherm parameters/operating conditions

Output: Yield/purity predictions

Use Case 1: Generate testing and training sets for data with different sampling strategies from Josh’s code.

Use Case 2: Pass testing/training sets to surrogate model to predict yield/purity.

Use Case 3: Characterize model error based on isotherm used/number/type of impurity.

## Use Cases - Scratch

1. Create data from the code we are given
2. Methods for sampling
3. Predict chromatography purity and yield using surrogate model
4. Explore other machine learning models to see which has best prediction
   1. Also see which models are faster

Experimental conditions for column + protein info (isotherm info) > mechanistic model code > purity & yield

Resin type, pH, salts, protein features > model > purity & yield