General ideas

* Optimize the set Sherpa (in progress)
  + Optimize regular learning set
    - Done (see results in
  + Optimize over transfer set (real goal)
    - Transfer set to pytorch for better readability/ build out (done)
    - Go to batching (framework done)
      * Optimize batch sizing for the set
* Observe results of optimizing hyper parameters etc
* Take optimized set and do neural regression on multiple
  + Optimize regression weighting on testing or simply use even
* Cluster analysis
  + Group cluster by PCA
  + Look into transfer learning between clusters

Cluster of materials or cluster of MOF?

* + Force bad performance
  + Just simply use one for the other
  + Transfer learn one to another