

# Progress Report

11/30/2021

# Last Meeting's Results Summary

- Intermediate weight averaging using random groups
- Tested this method with 250 networks, 25 groups
- Not significantly better than what was already utilized in Method 2
- How can weights be averaged “Smarter”?

# Creating Similar Groups of Networks - Methods

- Method 1: set an arbitrary number of groups, and then sort networks into each group based on how similar they are
- Method 2: use some variation of K-means clustering to sort networks into K groups
  - The goal of this is to find a certain number of networks which are representative of their own unique groups

# Current Progress

- Arbitrary group clustering has already been implemented
- Working on implementing K-means to find representative networks of each group
- TBD: efficiency of this method
- Full results of each will be generated once the implementations are finalized