Past 2 Weeks

- ConPlex
 - Didn't get good results
 - Checking wrong protein?
- Read papers
 - Insight into how others got good models
- Started multi-task model
 - All animals, oral route, LD50
 - Humans, oral route, TDLo
 - Classification (EPA) 0-10-50-500-2000-inf
- Trained single-task data
 - For comparison



Next 2 Weeks

Finish multi-task model

- Differing dataset sizes (100-20,000)
- Same batch number, different batch size
- Custom Dataloader
 Sampler

- Train model

- Unweighted
- Weighted: Kendall, A.
 Multi-Task Learning Using
 Uncertainty to Weigh Losses

1 2 3 4 5 6 7 8 128 samples/batch 128 samples/batch rat 1 2 3 4 128 samples/batch 1 2 human b6 b7 b8 11 2 3 19 56 1 2 3 2 3 4 1 2 2 2 2 1 overfit OR 64 65 66 57 2 3 9 5 6 5

forget

Same batch size

2 3 4

2

Same num batches

