## **Test**

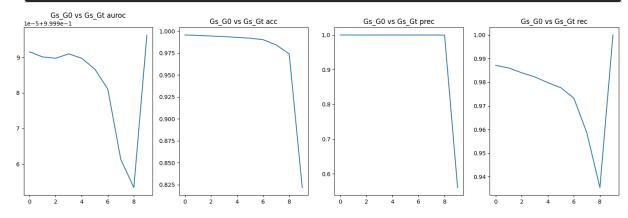
```
In [168...
In [124...
In [26]:
In [125...
In [126...
In [323...
Out[323...
In [127...
```

```
In [128...
In [129...
                                                                       Gs G0, from final to initial
              400000
             200000
                     0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0
                                                                                                                            0.2 0.4 0.6 0.8
             600000
              400000
              200000
                                                                         0.2 0.4
In [32]:
                                                                       Gs Gt, from final to initial
             600000
              400000
             200000
                     0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0 0.2 0.4 0.6 0.8 1.0
             600000
              400000
             200000
In [207...
```

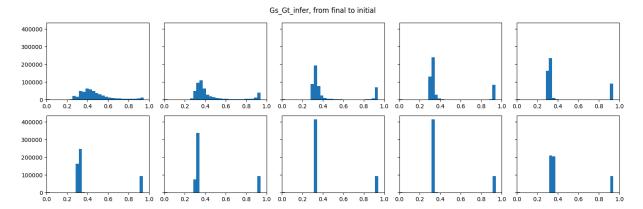
```
from sklearn.metrics import precision_score
prec_list = []
for i in range(n_steps):
    prec = precision_score(y_true[:] > true_thresh, y_logit[:] >
pred_thresh)
    prec_list.append(prec)

from sklearn.metrics import recall_score
rec_list = []
for i in range(n_steps):
    rec = recall_score(y_true[i] > true_thresh, y_logit[i] >
pred_thresh)
    rec_list.append(rec)

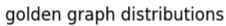
fig, axs = plt.subplots(1, 4, tight_layout=True, figsize=(15, 5))
axs[0].plot(auroc_list)
axs[0].set_title(f"{true_name} vs {pred_name} auroc")
axs[1].set_title(f"{true_name} vs {pred_name} acc")
axs[2].plot(prec_list)
axs[2].set_title(f"{true_name} vs {pred_name} prec")
axs[3].sot_title(f"{true_name} vs {pred_name} prec")
axs[3].set_title(f"{true_name} vs {pred_name} prec")
```

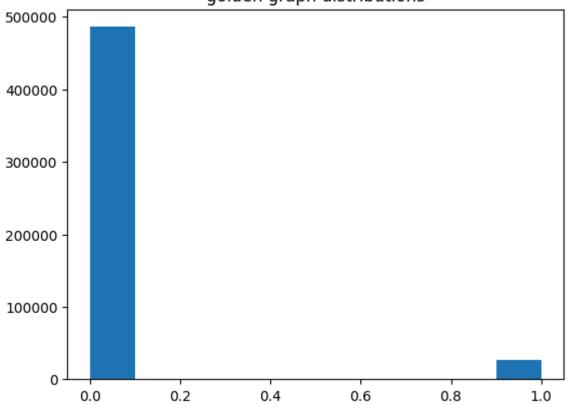


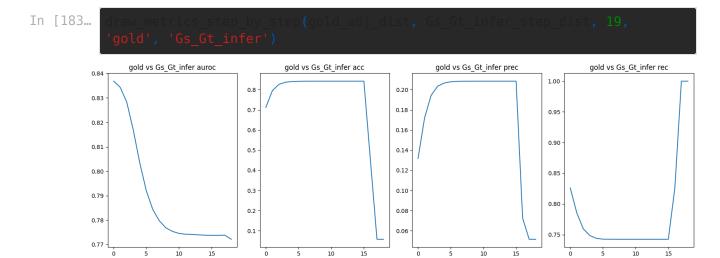
In [130... draw\_step\_dist(Gs\_Gt\_infer\_step\_dist, 'Gs\_Gt\_infer', x\_range=[0, 1])

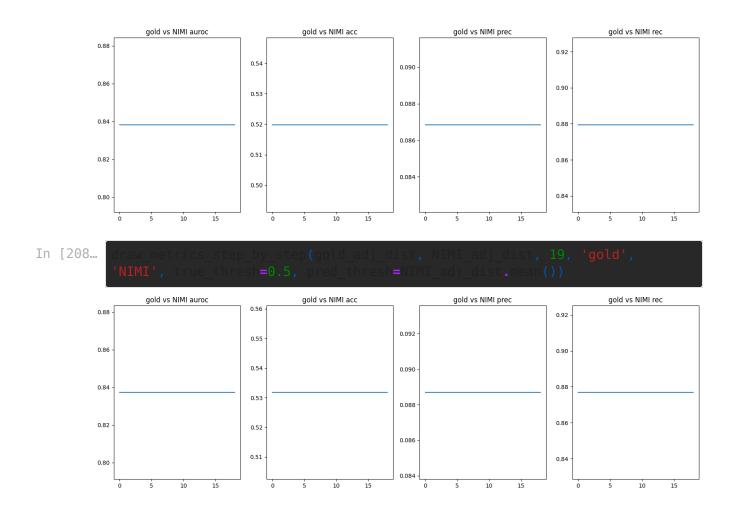


```
In [378...
In [179...
In [122...
In [182...
In [192...
In [133...
Out[133...
```









## Final evaluations

using original data without any preprocessing

**NOTE** symmetric adjacent matrix, should only get triu, more reasonable, better performance. NOW without triu, all elements.

```
In [210... import os

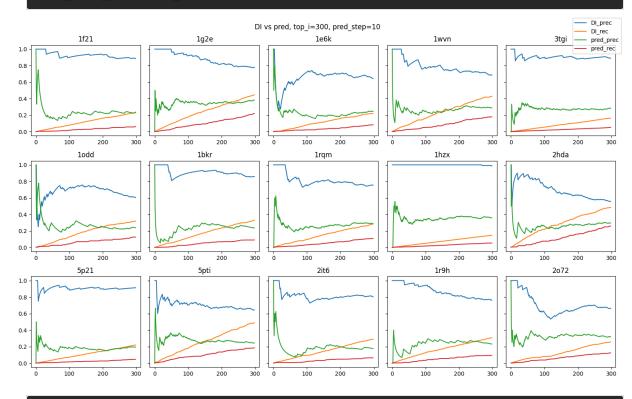
In [309... # original golden
    root = '/home/jiahang/DiGress/data/ND-code-datasets/Application2-protein-
    contact-maps/full-predictions'
    files = os.listdir(root)
    original_gold_E_list, original_gold_idx_list = [], []
    original_gold_E_flatten_list = []
    for filename in files:
        if not ('contact' in filename and '.mat' not in filename and '.pt' not
    in filename):
        continue

    # get index
    idx = filename.split('contact_')[1].split('.npy')[0]
        original_gold_idx_list.append(idx)
        adj_path = os.path.join(root, filename)
```

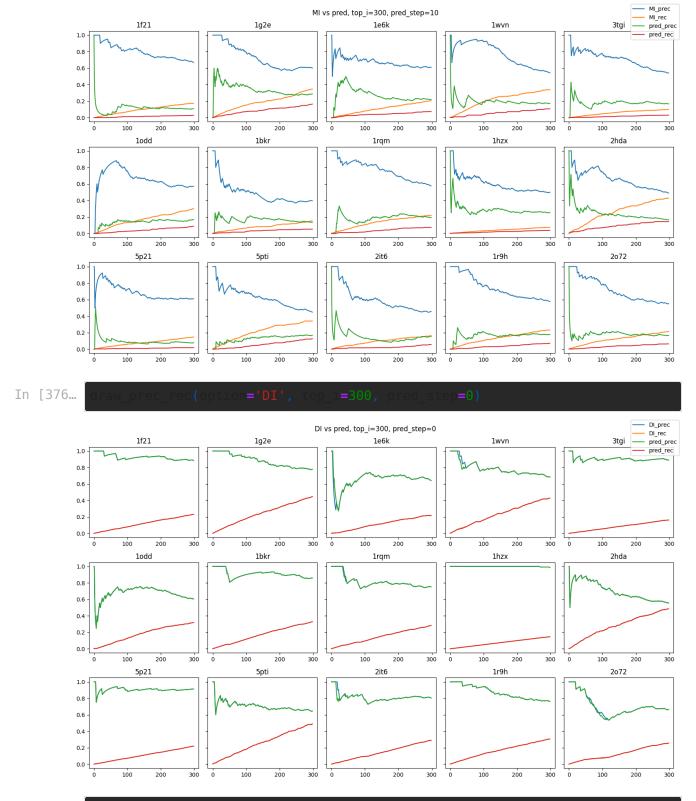
```
In [310... # original DI and MI
In [292...
Out[292...
In [342... # model prediction file index list
In [373... def dra
```

```
if col == 4:
    row += 1
    col = 0
    else:
        col += 1
    plt.suptitle(f"{option} vs pred, top_i={top_i}, pred_step=
{pred_step}")
```

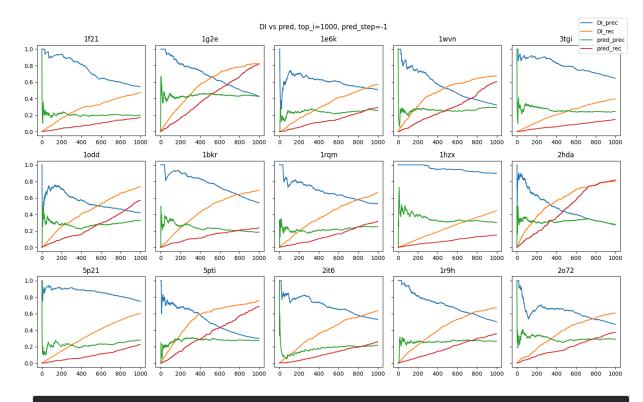
In [374... draw prec rec(pred ster=10)



In [375... draw\_prec\_rec(option='MI', pred\_step=10)



In [377... draw\_prec\_rec(option='DI', top\_i=1000, pred\_step=-1)



In [ ]: