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| **Date** | **Method/Paper/Group** | **Features** | **Approach/Architecture** | **dataset** | **Seq/Structure-based** | **Labels/GO terms** | **Availability** | **Eva** |
| July 07, 2022  (**Recent)** | Integrating Self-Attention Transformer with Triplet Neural Networks for Protein Gene Ontology Prediction  Yi-Heng Zhu, Chengxin Zhang, Dong-Jun Yu, **Yang Zhang** | Input sequence->ESM-1b | transformer, neural network-based feature fusion, and triplet network-based function prediction | 123,774 (uniprot) for training,1089 and CAFA for testing | Seq | Go(MF, BP, and CC) multilabel (no hierarchical) | <https://zhanggroup.org/ATGO/>  (server works)  preprint: <https://www.biorxiv.org/>  content/10.1101/2022.07.07.499156v1.full | F1 (Fmax), AUPR |
| 27 July 2019 | **DeepGOPlus**: improved protein function prediction from sequence  By Maxat Kulmanov, Robert Hoehndorf | Input sequence->one hot encoding | 1D cnn+maxpooling | Train: MFO( 34488) BPO( 51716) CCO( 49346 )  Test: MFO( 679) BPO(1434)CCO(1148) | Seq | Go(MF:652, BP:3904, and CC:545) multilabel (no hierarchical)  [classes annotated with < 50 discarded | Tool: <http://deepgoplus.bio2vec.net/>  (server works)  Paper:  https://doi.org/10.1093/bioinformatics/btz595 | F1 (Fmax), AUPR  Smin |
| 15 July 2018 | **GOLabeler**: improving sequence-based large-scale protein function prediction by learning to rank | GO term frequenc, LR 3-mer, InterProScan, ProFET, blast KNN | Linear regression, Xgboost for GO notation ranking | Train: all data annotated before 2014,LTR1: No knowledge, LTR2: limited knowledge,  Test: jan-oct 2016 | Seq | Go(MF, BP, and CC) | Paper: <https://doi.org/10.1093/bioinformatics/bty130>  Tool: <http://datamining-iip.fudan.edu.cn/golabeler>  (failed to load) | F1 (Fmax), AUPR  Smin |
| Jan 2022, (**recent**) | Accurate protein function prediction via graph attention networks with predicted structure information  By Boqiao Lai, Jinbo Xu (**GAT-GO**) | Contact, esm 1b, 1d features aa, ss, sa,.. | 1D CNN, GAT | DEEPFRI dataset | Seq+Structural info | Go(MF, BP, and CC) | Paper: https://doi.org/10.1093/bib/bbab502 | F1 (Fmax), AUPR |
| 26 May 2021 (**recent**) | Structure-based protein function prediction using graph convolutional networks  By Vladimir Gligorijević et al  (**DEEPFRI**) | Structural info, contact map extracted from native | LSTM (1D features) + GCN (2D features) | combine ~30 k non-redundant experimental structures from the PDB and ~220 k non-redundant homology models from the SWISS-MODEL repository 80/10/10% | Seq/Structure | Go(MF, BP, and CC) and EC numbers, Residue-level site-specific annotation | Paper: <https://www.nature.com/articles/s41467-021-23303-9>  Webserver: <https://beta.deepfri.flatironinstitute.org/workspace/06D52Y>  Code: https://github.com/flatironinstitute/DeepFRI  (Server works) | F1 (Fmax),ROC |
| 23 mar 2021 (**recent**) | **TALE**: Transformer-based protein function Annotation with joint sequence–Label Embedding  By Yue Cao, Yang Shen | Seq embedding, Label embedding | Transformer encoder+cnn 1D | UniProtKB/Swiss-Prot dataset release-2015\_12  CAFA: before September 2016 and between September 2016 and November 2017 | Seq | Go(MF, BP, and CC) | Paper: <https://doi.org/10.1093/bioinformatics/btab198>  Code: <https://github.com/Shen-Lab/TALE> (locally installed) | F1 (Fmax), |
| 2 July 2021  (**recent**) | **NetGO 2.0**: improving large-scale protein function prediction with massive sequence, text, domain, family and network information  [[CAFA3 champion]] | Naive, BLAST-KNN, LR-3mer, LR-InterPro, NetKNN, LR-Text and Seq-RNN , PPI | Ranking, improved version of GOLABELER | All data annotated in December 2018 or before, LTR: January 2019 to January 2020,test: between February 2020 and October 2020 | Seq, PPI | Go(MF, BP, and CC) | Paper: <https://academic.oup.com/nar/article/49/W1/W469/6285266>  Server: <https://issubmission.sjtu.edu.cn/ng2/>  (says error in input fasta format) | F1 (Fmax), AUPR, Coverage |
| 12 July 2021 (**recent**) | **DeepGraphGO**: graph neural network for large-scale, multispecies protein function prediction by Ronghui You, Shuwei Yao, Hiroshi Mamitsuka, Shanfeng Zhu | N binary feature vector by InterProScan, protein network G | FCN, 2GCN, FCN | Train: before Jan 2018,  Val:jan-dec 2018  Test: jan 19-jan20 | Seq, higher order protein network | Go(MF, BP, and CC) | Paper: https://doi.org/10.1093/bioinformatics/btab270  code: <https://github.com/yourh/DeepGraphGO>  ((cannot be installed because of dependency issues)) | F1 (Fmax), AUPR |
| July 2022  (**recent**) | **DeepGOZero**: improving protein function prediction from sequence and zero-shot learning based on ontology axioms  By Maxat Kulmanov, Robert Hoehndorf | Protein embedded by MLP and GO terms embedded with ELEMbedding | Zero-shot prediction | Train: before dec 2018  Val: jan 2019-jan 2020  Test: feb 2020, oct 2020 | Seq | Go(MF, BP, and CC) | Paper: <https://doi.org/10.1093/bioinformatics/btac256>  Code: <http://github.com/bio-ontology-research-group/deepgozero>.  <<cannot be installed because requirements cannot be installed ( Could not find a version that satisfies the requirement pkg\_resources)>> | F1 (Fmax), AUPR  Smin, (for class-centric metric: AUROC) |
| May 2019 | **DEEPred:** Automated Protein Function Prediction with Multi-task Feed-forward Deep Neural Networks | Seq features vector by (i) Conjoint triad, (ii) Pseudo amino acid composition and (iii) Subsequence profile map (SPMap) | Multiple ( 1,101 different models) MLPs to predict 4-5 terms each, and hierarchical post processing | UniProtKB/Swiss-Prot database (version 2017\_08) | Seq | Go(MF, BP, and CC) | Code: <https://github.com/cansyl/DEEPred>  Paper: <https://www.nature.com/articles/s41598-019-43708-3> | F1, AUC |
| Jan 2021 | Unsupervised protein embeddings outperform hand-crafted sequence and structure features at predicting molecular function by Amelia et al | ElMo 1024, seq one hot (26), k-mer(1024), contact map, DeepFold | MLP, GCN |  | Seq | Go(**MF**, BP, and CC) | Paper: <https://doi.org/10.1093/bioinformatics/btaa701>  Code:  https://github.com/stamakro/GCN-for-Structure-and-Function  <<cannot be installed, dependency packages are conflicting to each other, features cannot be used>> | F1: shows adding structural information cannot improve prediction |
| June 2022 | **ContactPFP:** Protein Function Prediction Using Predicted Contact Information by kihara lab | Msa->contact->gr-align | Gr-align |  | Seq/msa | Go(**MF**, BP, and CC) | Code: <https://github.com/kiharalab/contactpfp>,  Paper: https://www.frontiersin.org/articles/10.3389/fbinf.2022.896295/full | Fmax,smin |
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**Protein Function Prediction Recent Literature**

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADEzMzQ1AAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0NAAAkpIAAgAAAAM0NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Functions and GO terms: 50,000+

https://www.ebi.ac.uk/QuickGO/annotations

Molecular Function (MF): the molecular activities of individual gene products

Biological Process (BP): the pathways and larger processes to which that gene product’s activity contributes

Cellular Component (CC): where the gene products are active

Ref: http://geneontology.org /

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![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADEzMzQ1AAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![Chart, radar chart

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Ref: https://academic.oup.com/bioinformatics/article/36/2/422/5539866

**HyperGraph learning**

![Diagram

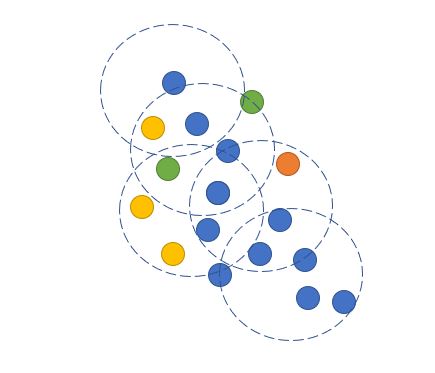
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**Ref:** Hypergraph Convolution and Hypergraph Attention

By Song Bai et al.

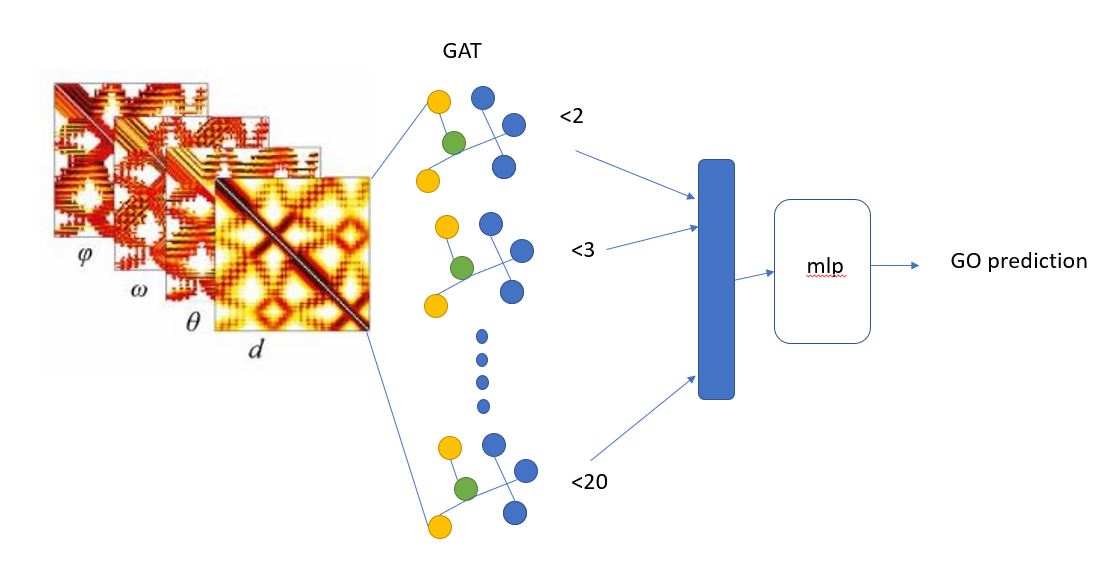
**Implementation:** [**https://github.com/pyg-team/pytorch\_geometric**](https://github.com/pyg-team/pytorch_geometric)

**Propose to use in this problem:** create multiple centroid (residue) and build hypergraph considering specific thresholds

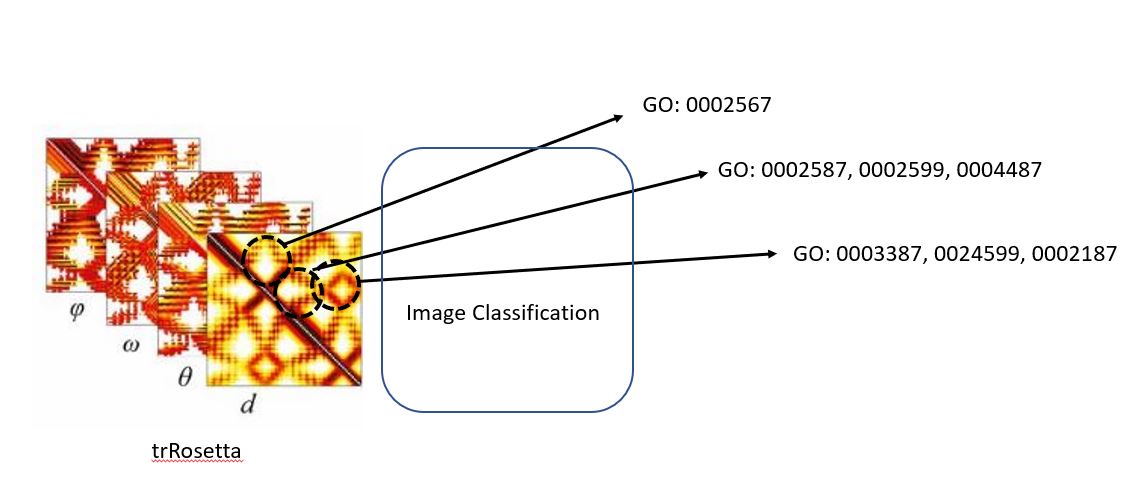


**Proposed method to predict protein function:**

1. Seq+(maybe rrQNet output+)Contact map+distance map+orientation map🡪 multi-network embedding/hypergraph learning🡪 GO prediction



1. Seq+(maybe rrQNet output+)Contact map+distance map+orientation map🡪 **image classification problem**((Improved ResNet Ionut et al 2020 + attention, crossvit) 2D space to predict go)-🡪 GO prediction



1. Combination of above two

Additional References:

Multinetwork topology: doi: 10.1093/bib/bbaa036

CrossVIT: available at <https://github.com/IBM/CrossViT>

Improved ResNet: <https://arxiv.org/pdf/2004.04989.pdf>

Dgl graph ideas: 1. apply message passing to (subgraph) hipergrah edges, 2. Set edge weights as predicted probability of contact map, 3.

Date: 3 August 2022

**Protein Function Prediction Methods:**

Locally Installed:

1. TALE: <https://github.com/Shen-Lab/TALE>

Server:

1. By Zhang: <https://zhanggroup.org/ATGO/>
2. DeepGOPlus: <http://deepgoplus.bio2vec.net/>
3. DeepFRI: <https://beta.deepfri.flatironinstitute.org/workspace/06D52Y>

Othres:

GOLabeler: <http://datamining-iip.fudan.edu.cn/golabeler> : server fails to load

NetGo2: <https://issubmission.sjtu.edu.cn/ng2/> server does not work because of error

DeepGraphGO: <https://github.com/yourh/DeepGraphGO> ((cannot be installed because of dependency issues))

DeepGOZero: ((cannot be installed because of dependency issues))

A homology-based New Method: **ContactPFP by Kihara Group**

**TODO: find more methods to install/server**

**Experiment 1**

**Dataset: (obtained from the Zhang Server)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name: Ours** | **#fasta** | **#esm1b 33xL (cropped 1022)** | **#esm1b contacts (top L) (cropped 1022)** | **#AF2 3D models** | **#mmseq2 msa generated** | **trRosetta (dist/orientation)** | **Other 1D** |
| **Train** | 109132 | 109132 | 109132 | 103238 | 10105 (10% so far) |  |  |
| **Test** | 1068 |  |  | 1066 |  |  |  |
| **Validation** | 1089 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Name: CAFA3** |  |  |  |  |  |  |  |
| **Train** | 66841 |  |  |  |  |  |  |
| **Test** | 3328 |  |  |  |  |  |  |

**Method**

1. Features: 33xL from esm1b, top L contact from esm1b
2. Simple GAT (using DGL library) 🡪 multilabel prediction

GAT(

(gat\_layers): ModuleList(

(0): GATConv(

(fc): Linear(in\_features=33, out\_features=1024, bias=False)

(feat\_drop): Dropout(p=0.0, inplace=False)

(attn\_drop): Dropout(p=0.0, inplace=False)

(leaky\_relu): LeakyReLU(negative\_slope=0.2)

)

(1): GATConv(

(fc): Linear(in\_features=1024, out\_features=1024, bias=False)

(feat\_drop): Dropout(p=0.0, inplace=False)

(attn\_drop): Dropout(p=0.0, inplace=False)

(leaky\_relu): LeakyReLU(negative\_slope=0.2)

(res\_fc): Identity()

)

(2): GATConv(

(fc): Linear(in\_features=1024, out\_features=30, bias=False)

(feat\_drop): Dropout(p=0.0, inplace=False)

(attn\_drop): Dropout(p=0.0, inplace=False)

(leaky\_relu): LeakyReLU(negative\_slope=0.2)

(res\_fc): Linear(in\_features=1024, out\_features=30, bias=False)

)

)

)

Used 4 target proteins to start train

**ToDo:** use whole train-set to train and test

**USR feature generation:**

1. 12 scalers from a given 3D protein structure (DeepUMQA)

Ctd: center of molecules

Cst: closest atom from ctd

Fct: closest atom from cst

Ftf: closest atom from fct

CTD\_mu1: average distance from atoms to ctd

CTD\_mu2: variance of distances

CTD\_mu3: skewness of distances

1. Sub-graph using 4 points of USR

**ToDo:**

AF2 model 🡪distance/orientation/structural features/usr features 🡪GAT/Hypergraph/image-classification learning 🡪prediction

**1068 Benchmark proteins:** from ATGO dataset (test), checked sequence identity of AF2 models with the given sequences using NWalign, got 1.0 for all. Run AF2 using colabfold and took rank1 models for the targets that were not present in AF2 model database

DeepFRI comparison on 1068 test benchmark proteins

![Table

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADEzMzQ1AAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxMAAAkpIAAgAAAAMxMAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Gg/hj/0M3/khc//ABuj/hoP4Y/9DN/5IXP/AMbr0migDxvwV8cvh1pHgHw/puoeIfJu7PTLaCeP7FcNsdIlVhkRkHBB5BxW3/w0H8Mf+hm/8kLn/wCN16TRQB5sf2gvhgQQfE2Qeo/s+5/+N1lJ8WvgnHY3Vkl9Yra3i7LiEaRPtlUdFI8rkDsO1evUUAeNn4n/AAKbVINRabTDe2yKkM50WbfGqjCgHyuMAAD0xxVu/wDjH8GdUuo7nUtTtLqeJdqSTaTcMwGd2MmLpkA49QDXrNFAHklz8X/gte6h9uu9Rs5rr5czPpNwWbbyuT5XO09M9O1aX/DQfwx/6Gb/AMkLn/43XpNFAHm3/DQfwx/6Gb/yQuf/AI3WJ41+OXw61fwD4g03T/EPnXd5plzBBH9iuF3u8TKoyYwBkkck4r2SigDzb/hoP4Y/9DN/5IXP/wAbo/4aD+GP/Qzf+SFz/wDG69JooA80l+P3wtmieKbxGskbqVdH065IYHqCPL5FZZ+LHwRbSptMe9sWsZ2Dy27aROUcjGCR5XOMDHpgelev0UAeS3Xxh+C97exXd5qNnPcQqqpLJpM5ZQpyoz5XQHkeh5FPm+NHwduNTj1GfVraS8jxsnbS7guMZwc+V2ycemTjrXq9FAHlE3xo+Dtxqceoz6tbSXkeNk7aXcFxjODnyu2Tj0ycdavf8NB/DH/oZv8AyQuf/jdek0UAebf8NB/DH/oZv/JC5/8AjdYnjX45fDrV/APiDTdP8Q+dd3mmXMEEf2K4Xe7xMqjJjAGSRyTivZKKAPNv+Gg/hj/0M3/khc//ABuoL346/CbUrOS01HXIbu2lGJIZ9MuHRx6FTFg16hRQB5Z/wu74Q+Xax/2xbbLNg9sv9lT4gYAgFB5XynBI49abD8bPhBbX8l9b6xbx3Umd8y6XcBjnGefK74GfXAr1WigDyqH42fCC2v5L631i3jupM75l0u4DHOM8+V3wM+uBVz/hoP4Y/wDQzf8Akhc//G69JooA8bu/jl8OpfH2lakniHNpb6ZewSyfYrj5XkltWQY8vJyIn5AwNvPUZ2/+Gg/hj/0M3/khc/8AxuvSaKAPK7742/CDVPJ/tPV7W88hxJF9o0qeTy2HRlzEcH3FPb45fCN7mW4fWrdppohDLKdLuCzx8/IT5WSvJ4PHJr1GigDyq0+NnwgsbWS2s9Yt4YJf9ZGml3AV+McjyueOOe3FOsPjh8I9LhaLTtbhtUY7mWLTbhdxxjJxFzwAPoBXqdFAHm3/AA0H8Mf+hm/8kLn/AON1ieEvjl8OtM0W4gvvEPlSvqeoTqv2K4bKS3k0iHiPujqcdRnBwa9kooA82/4aD+GP/Qzf+SFz/wDG6qW3xs+D9ncXNxZ6tawTXRzcSRaTOrTH1YiLLfjXqlFAHksvxi+DE1nBaSajZm2tgRDD/ZM+yMHqFHlYAPcdDUt98bPhBqccaahrFvcrFnYJdLuGC5GCBmLoRwR3r1WigDzYftA/DBVAXxLgDgAafc8f+Q6s6b8cvh1q+q2mm6f4h867vJkggj+xXC73dgqjJjAGSRyTivQKKACiiigD/9k=)

DeepFRI(pdbdir) 0.06 -- 0.04

DeepFRI 0.25 0.15 0.12

(individual)

DeepFRI(pdbdir) command: python predict.py --pdb\_dir ./examples/pdb\_files -ont mf --saliency

Now running: (individual), ToDo: evaluate Fmax and other metrics for individual run

**Function prediction using SE-3 transformer:**

**GSE3Res(**

**(GMAB): ModuleDict(**

**(v): GConvSE3Partial(structure=[(16, 0)])**

**(k): GConvSE3Partial(structure=[(16, 0)])**

**(q): G1x1SE3(structure=[(16, 0)])**

**(attn): GMABSE3(n\_heads=8, structure=[(16, 0)])**

**)**

**(cat): GCat(structure=[(22, 0)])**

**(project): G1x1SE3(structure=[(32, 0)])**

**)**

**GNormSE3(num\_layers=0, nonlin=ReLU(inplace=True))**

**GSE3Res(**

**(GMAB): ModuleDict(**

**(v): GConvSE3Partial(structure=[(16, 0)])**

**(k): GConvSE3Partial(structure=[(16, 0)])**

**(q): G1x1SE3(structure=[(16, 0)])**

**(attn): GMABSE3(n\_heads=8, structure=[(16, 0)])**

**)**

**(cat): GCat(structure=[(48, 0)])**

**(project): G1x1SE3(structure=[(32, 0)])**

**)**

**GNormSE3(num\_layers=0, nonlin=ReLU(inplace=True))**

**GSE3Res(**

**(GMAB): ModuleDict(**

**(v): GConvSE3Partial(structure=[(16, 0)])**

**(k): GConvSE3Partial(structure=[(16, 0)])**

**(q): G1x1SE3(structure=[(16, 0)])**

**(attn): GMABSE3(n\_heads=8, structure=[(16, 0)])**

**)**

**(cat): GCat(structure=[(48, 0)])**

**(project): G1x1SE3(structure=[(32, 0)])**

**)**

**GNormSE3(num\_layers=0, nonlin=ReLU(inplace=True))**

**GSE3Res(**

**(GMAB): ModuleDict(**

**(v): GConvSE3Partial(structure=[(16, 0)])**

**(k): GConvSE3Partial(structure=[(16, 0)])**

**(q): G1x1SE3(structure=[(16, 0)])**

**(attn): GMABSE3(n\_heads=8, structure=[(16, 0)])**

**)**

**(cat): GCat(structure=[(48, 0)])**

**(project): G1x1SE3(structure=[(32, 0)])**

**)**

**GNormSE3(num\_layers=0, nonlin=ReLU(inplace=True))**

**GConvSE3(structure=[(32, 0)], self\_interaction=True)**

**GMaxPooling(**

**(pool): MaxPooling()**

**)**

**Linear(in\_features=32, out\_features=32, bias=True)**

**ReLU(inplace=True)**

**Linear(in\_features=32, out\_features=1, bias=True)**

Train script: ongoing

Tentative features:

1. One hot encoding
2. Language model encoding (esm1/2)
3. Other residual features
4. Coordinates (CA, N, O)
5. Distance/orientation maps from AF2

Date: 24 August 2022

Note: ESM-2.0 just out, feature generation done (20%)

Data Analysis on **ATGO Dataset:**

Total protein targets

|  |  |  |  |
| --- | --- | --- | --- |
|  | BP | CC | MF |
| Train | 79491 | 71982 | 49135 |
| Test | 839 | 586 | 577 |

Total Distinct GO terms

|  |  |  |  |
| --- | --- | --- | --- |
|  | BP (>=50 target) | CC (>=50 target) | MF (>=50 target) |
| Train | 20822 (4176) | 2782 (580) | 6581 (737) |
| Test | 3469 | 382 | 876 |

Figures:

Model training (85 targets)

Inputs:

1. Graph:
   1. graph node feature: 33xL from esm1b (esm2b will be used)
   2. graph edge: 10 A (CA-CA)
   3. graph edge weight (1/d): ToDo: use s-score (chen et al 2019) or w = ln(sequence separation)/d
2. 3D coordinates

GSE3Res(), GNormSE3()

x4

Linear, Softmax->output

Linear, ReLU

MaxPool

GConvSE3

Inputs->fiber

ToDo: Train on full BP train set, label= reduced label, and then train on CC and MF full train set.

Use NVlink to utilize gpus

Use more freatures/parameter tuning in training