

# # Weekly Report 2019.08.12-2019.08.18

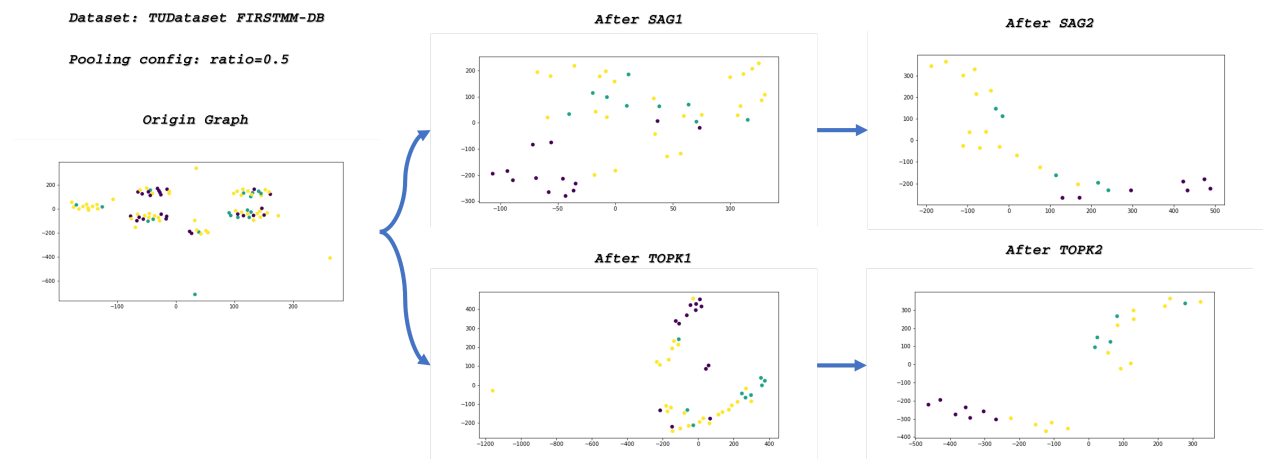
Jingtun ZHANG

WHERE WE ARE:

JINGTUN ZHANG SUMMER INTERNSHIP AT UCSB				
TIME	DFF MODEL	HAG	GNN	GDyNet
2019.07.08 ----- 2019.07.14	Single Conv Layer Linear Transform ↓ Multi Conv Layer. Magnitude of residual will not be magnified Exponentially	Implementation Question In Redundancy Computing ↓ Not Optimal	PyG tutorial	
2019.07.15 ----- 2019.07.21		$O(V^3)$ complexity is not reasonable	GNN review and MPNN Model paper reading ↓ unreasonable profiling of MPNN	
2019.07.22 ----- 2019.07.28	Output Flow and detail problem	More Understanding of HAG and $O(V \log V)$ redundancy computation		CGCNN and GDyNet Paper reading and Code review ↓ Code reading question Not test new pooling algorithm
2019.07.29 ----- 2019.08.04		Heap Method, actually $O(V^4 \log V)$ , does not work. Some Misunderstanding about algorithm ↓ Graph Adjacent Matrix method based HAG 0.0: computable and validate, but no quantitative analyse		Author reply: NO pooling function, just select target nodes, embedding
2019.08.05 ----- 2019.08.11		Paper-reading: Tigr ↓ visualization of graph pooling algorithm		
2019.08.12 ----- 2019.08.18			paper reading: Fast Train GNN on Dense Hardware, GCN ↓ spectral space distribution visualization of GCN-Pooling network	
	mvff version4 coding on-going			

## ## Work and Progress

1. Paper-reading: Fast train GNN on dense hardware, [note](#), GCN, [note](#)
2. Visualization of Pooling effectiveness in spectral space:



## ## This week plan

1. paper reading for idea:
    1. Graph data Processing
    2. Source code analyse
    3. GNN models
  2. MVFF coding
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