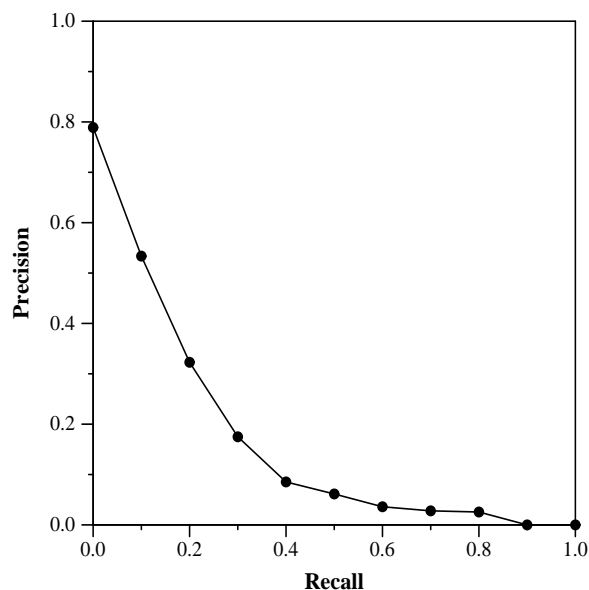
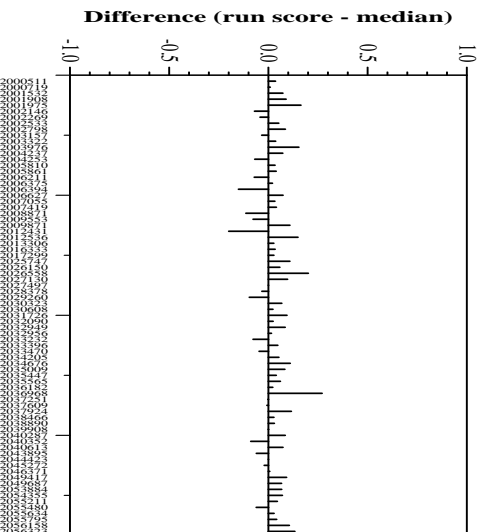


Deep Learning Track results — (UGA) Grenoble Alpes University

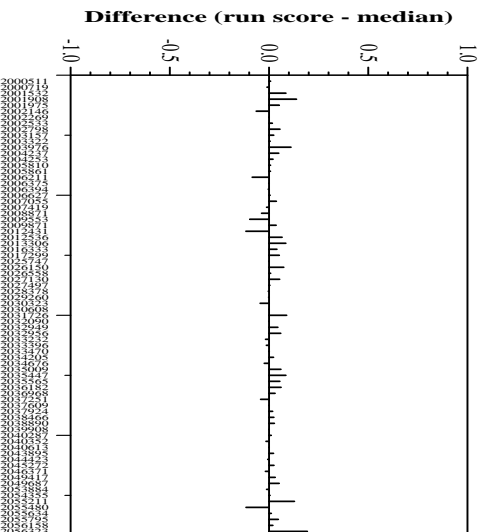
Run Description	
Run ID:	4systems
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	Yes
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Training cost:	All systems were pre-trained, only GAT system used parameter tuning using CLEF-IP2013 collection.
Pre-processing/indexing cost:	2 implementations of BM25 were used (Terrier and Anserini), Unicoil used the index provided by Anserini. MiniLM and T5 reranking was done on-the-fly.
Query processing cost:	GAT and Colbert reranking was used in one of the systems, it is described in Abarede: Passage Retrieval on Structured Documents Using Graph Attention Networks, ECIR 2022.

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	6846	At 5 docs	0.5421
Total relevant	4613	At 10 docs	0.4842
Total relevant retrieved	1010	At 15 docs	0.4316
MAP	0.1594	At 20 docs	0.3842
Mean NDCG@10	0.5654	At 30 docs	0.3197
Mean Reciprocal Rank	0.7337	R-Precision	
		Exact	0.2244

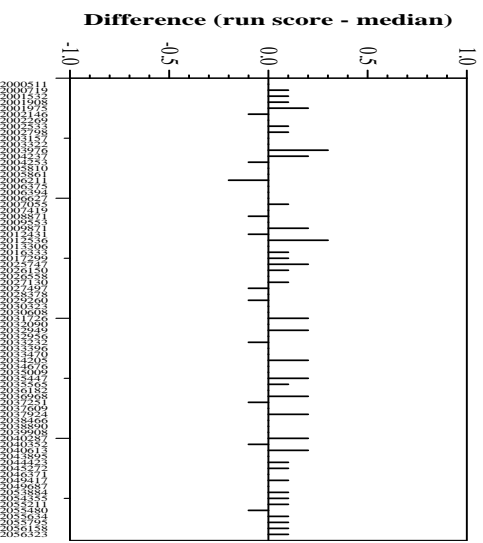




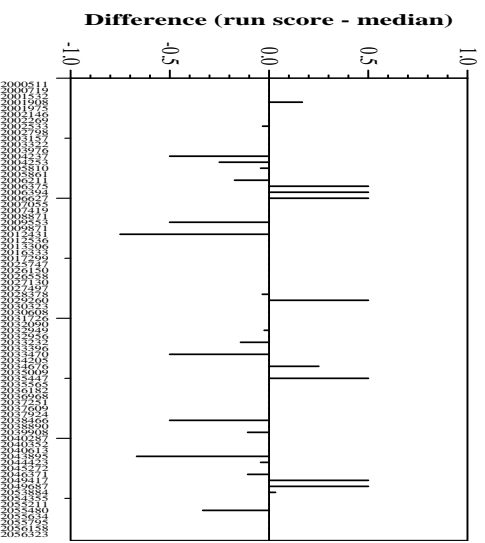
Per-topic difference from median for NDCG@10 for Passage Ranking runs



Per-topic difference from median for Average Precision for Passage Ranking runs



Per-topic difference from median for Prec@10 for Passage Ranking runs



Per-topic difference from median for Reciprocal Rank for Passage Ranking runs