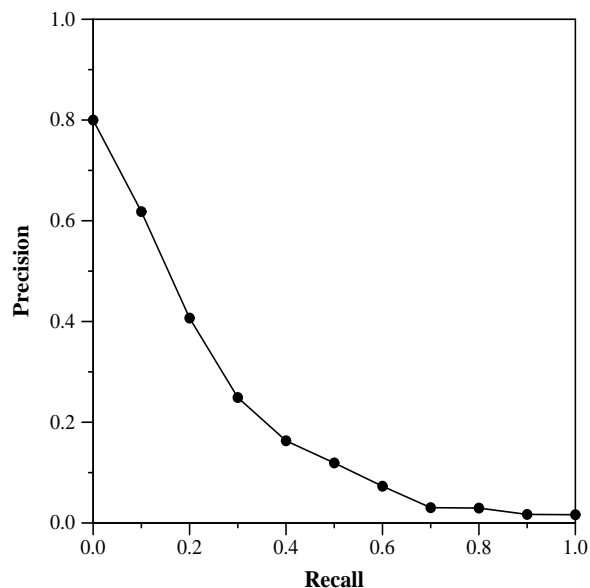


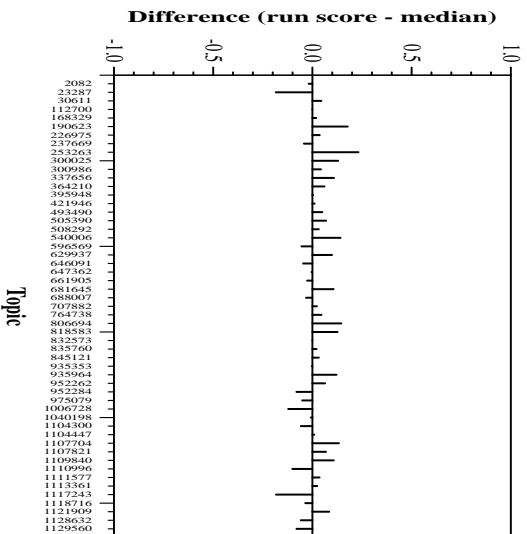
Deep Learning Track results — (BASELINES) Baseline Runs for TREC Deep Learning

Run Description	
Run ID:	ielab-robertav2
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data
Pre-processing/indexing cost:	roberta v2 is a neural re-ranker, it does not require any collection processing and indexing.
Query processing cost:	roberta takes query-passage pairs as model inputs and outputs a matching score for each pairs, it takes around 1100 ms to re-rank top100 passages per query on GPU.

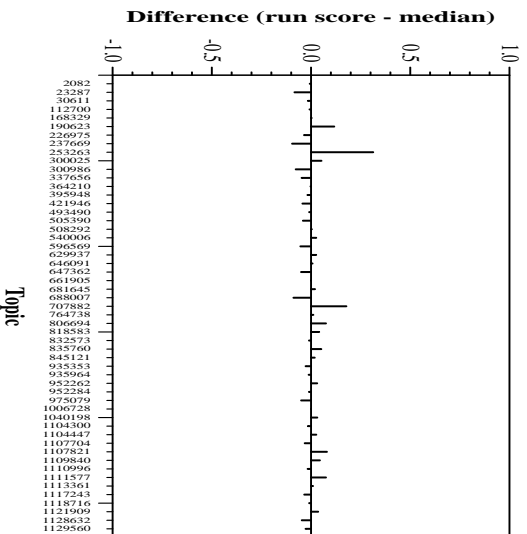
Overall measures		Document Level Averages	
Number of topics	53		Precision
Total number retrieved	5300	At 5 docs	0.5660
Total relevant	3427	At 10 docs	0.5226
Total relevant retrieved	879	At 15 docs	0.4654
MAP	0.2000	At 20 docs	0.4274
Mean NDCG@10	0.6226	At 30 docs	0.3654
Mean Reciprocal Rank	0.7645		
		R-Precision	
		Exact	0.2598



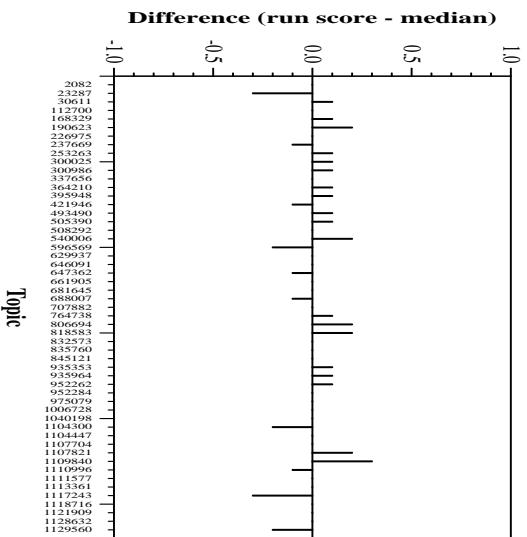
Deep Learning Track results — (BASELINES) Baseline Runs for TRREC Deep Learning



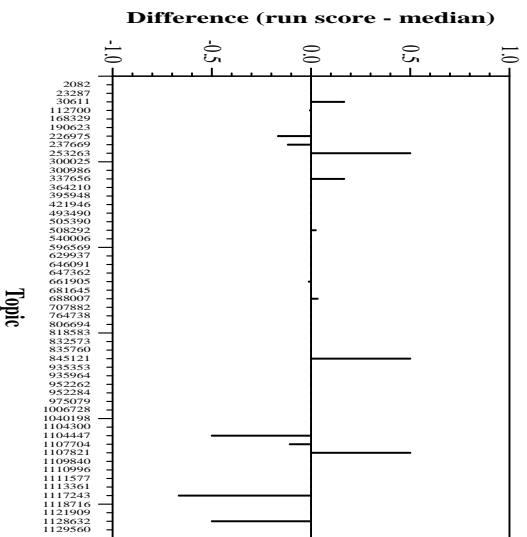
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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