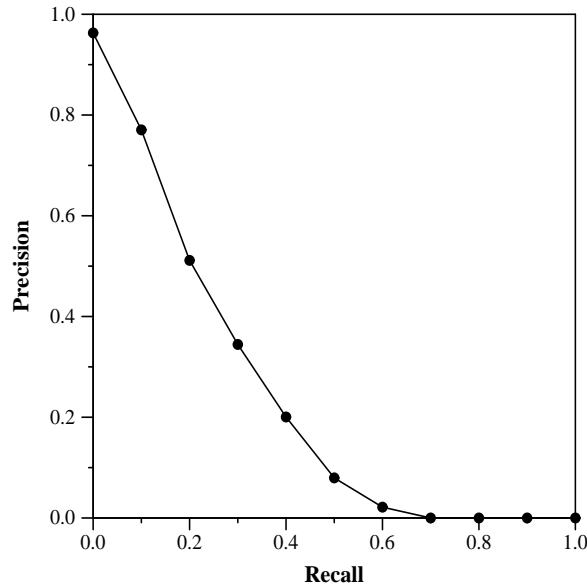
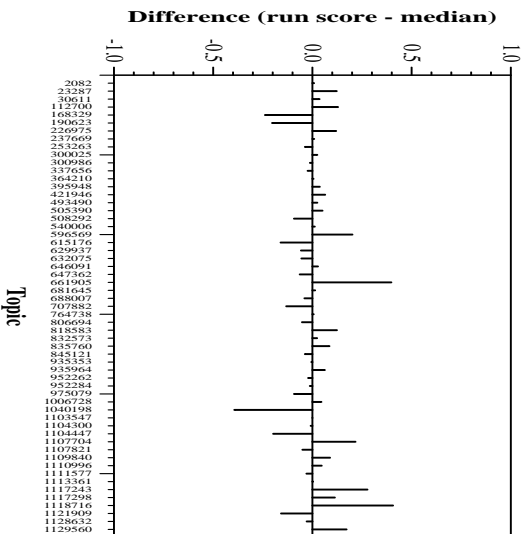


Run Description	
Run ID:	max-firstp-pass
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	Yes
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Pre-processing/indexing cost:	The total index time for passage V2 and document segment V2 around around 300 hours in one GPU.
Query processing cost:	We use Faiss-CPU FlapIP (brute force search) with batch 144, thread 36 to conduct end-to-end search. The total run time is around 240 secs.

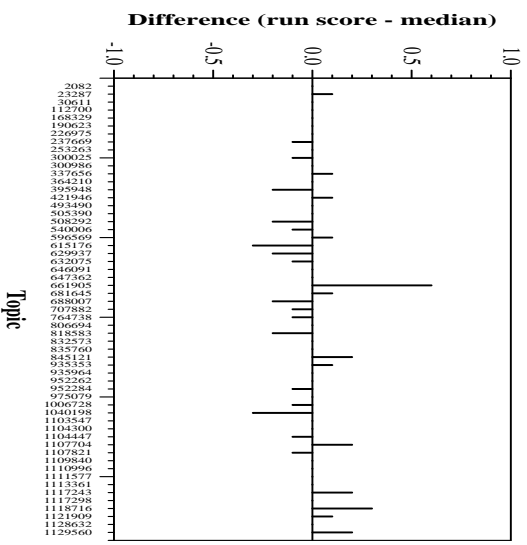
Overall measures	
Number of topics	57
Total number retrieved	5700
Total relevant	8203
Total relevant retrieved	2088
MAP	0.2321
Mean NDCG@10	0.6727
Mean Reciprocal Rank	0.9363

Document Level Averages	
	Precision
At 5 docs	0.8947
At 10 docs	0.8263
At 15 docs	0.7708
At 20 docs	0.7140
At 30 docs	0.6228
R-Precision	
Exact	0.2948

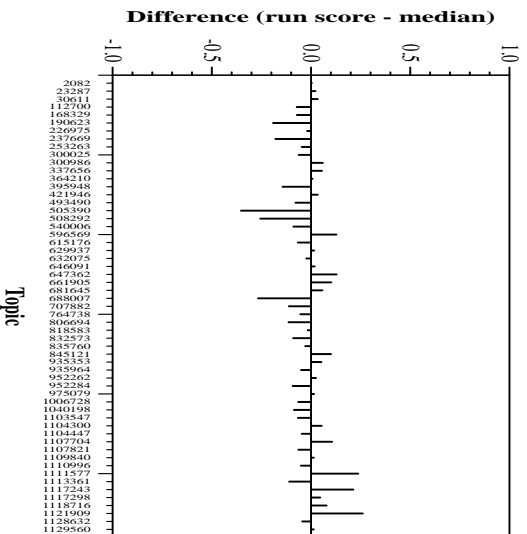




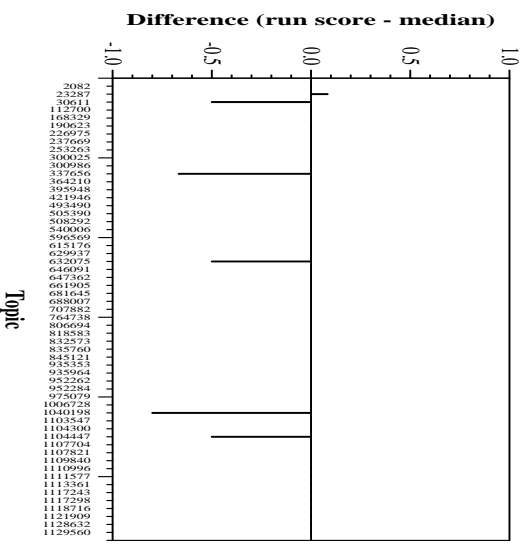
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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