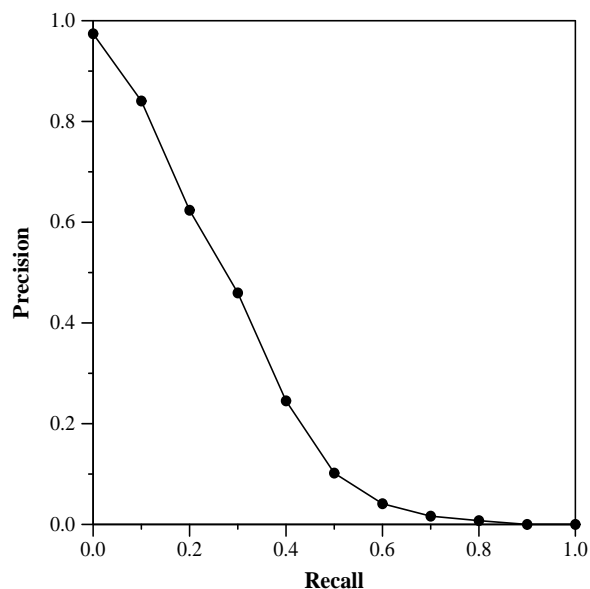
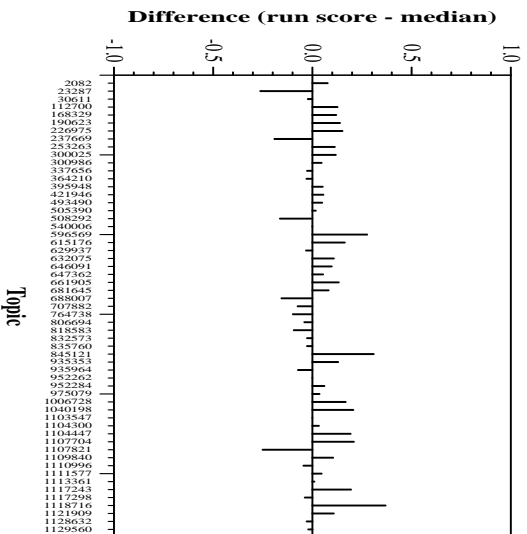


## Deep Learning Track results — (h2oloo) University of Waterloo

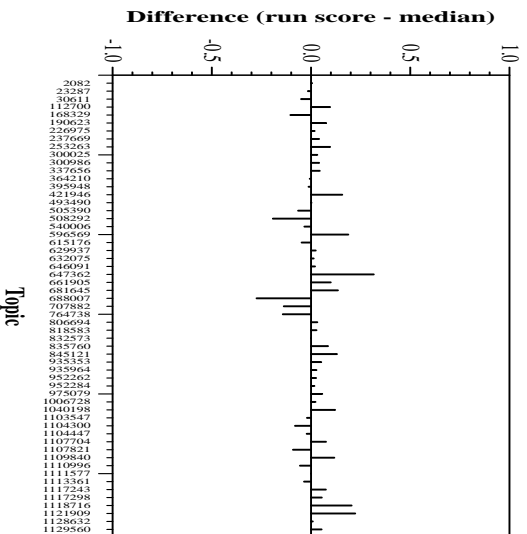
Run Description	
Run ID:	d_f10_mt53b
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	Yes
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Pre-processing/indexing cost:	Base run cost
Query processing cost:	mono - 1 hour on 1 TPU duo - 1 hour on 4 TPUs

Overall measures		Document Level Averages	
Number of topics	57		Precision
Total number retrieved	5700	At 5 docs	0.9193
Total relevant	8203	At 10 docs	0.8544
Total relevant retrieved	2457	At 15 docs	0.7848
MAP	0.2767	At 20 docs	0.7342
Mean NDCG@10	0.7024	At 30 docs	0.6632
Mean Reciprocal Rank	0.9605	R-Precision	
		Exact	0.3436

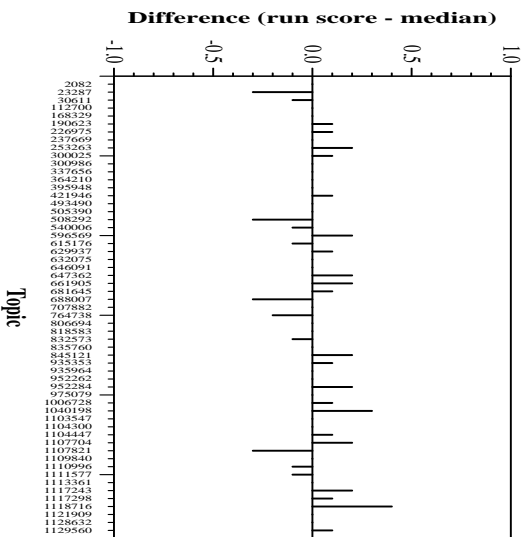




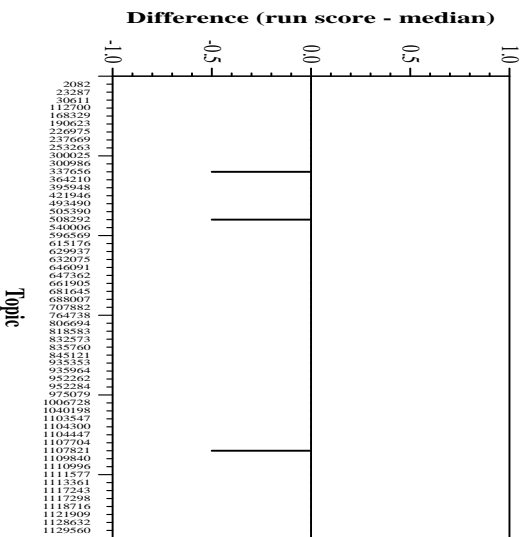
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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