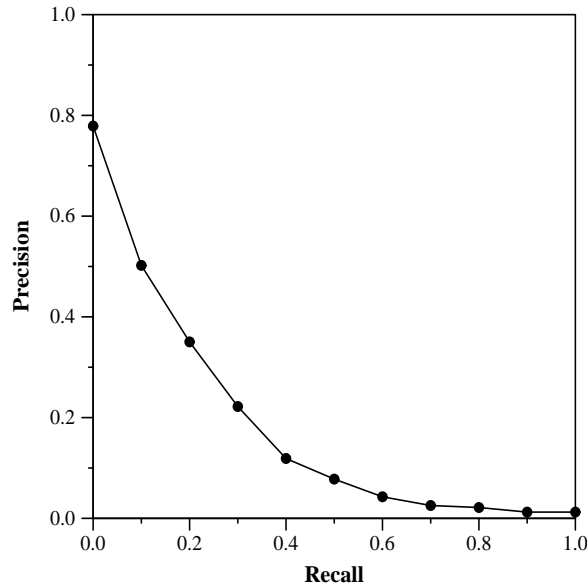
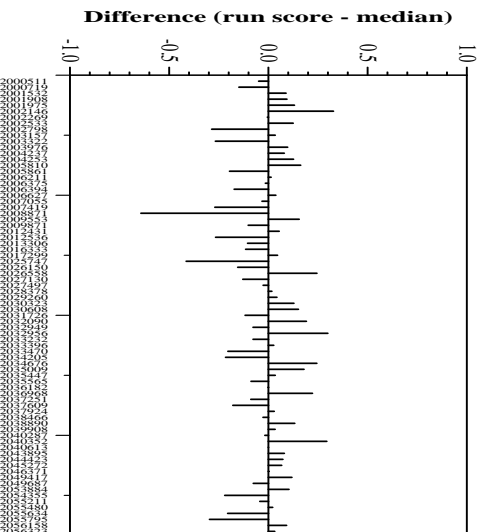


Run Description	
Run ID:	tuvienna-pas-col
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	Yes
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	There are 3 stages of training the ColBERTer model. ColBERTer training (80 hours) and then compression training to a the 32-dimensional compression (43 GPU hours). All experiments are run on 1 GPU A40 with 48GB memory. Total GPU hours: 123
Pre-processing/indexing cost:	ColBERTer-dim32: 5 GPU hours vectorizing and indexing All experiments are run on 1 GPU NVIDIA GeForce RTX 3090 with 24GB memory. Total GPU hours: 5
Query processing cost:	ColBERTer-dim32: 297 seconds per query for encoding, nn lookup and aggregation All experiments are run on 2 GPU NVIDIA GeForce RTX 3090 with 24GB memory. Total GPU hours: 1

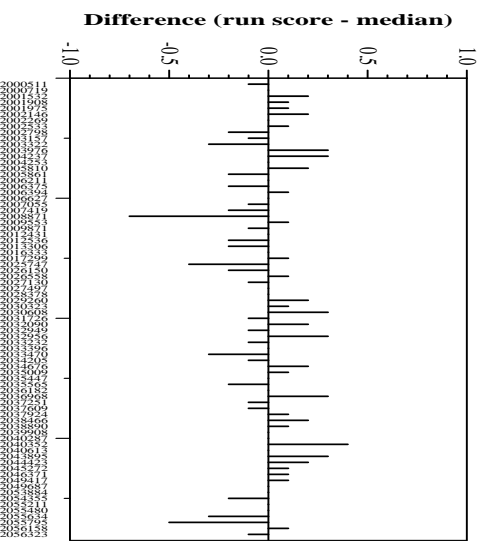
Overall measures	
Number of topics	76
Total number retrieved	6499
Total relevant	4613
Total relevant retrieved	1160
MAP	0.1650
Mean NDCG@10	0.5213
Mean Reciprocal Rank	0.7268

Document Level Averages	
Precision	
At 5 docs	0.4895
At 10 docs	0.4303
At 15 docs	0.3781
At 20 docs	0.3467
At 30 docs	0.2991
R-Precision	
Exact	0.2457

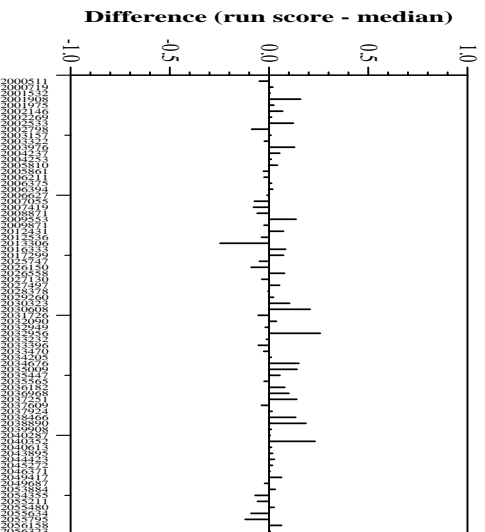




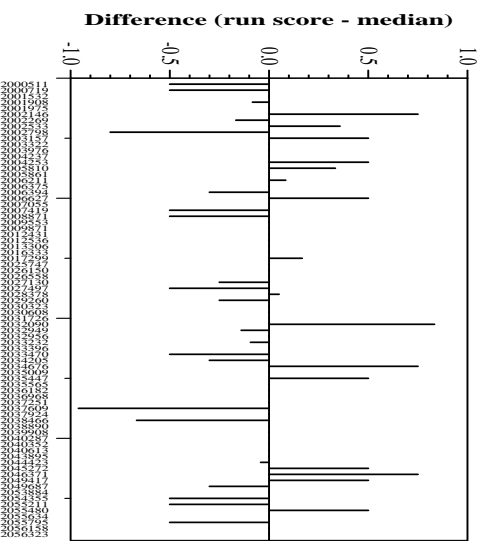
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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



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



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