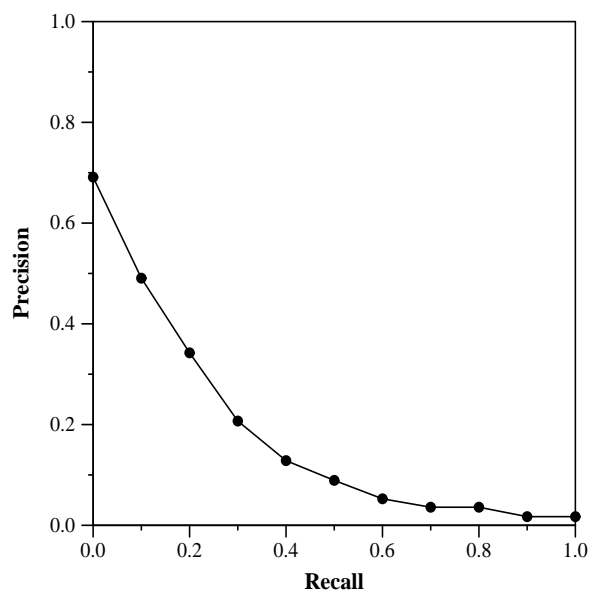
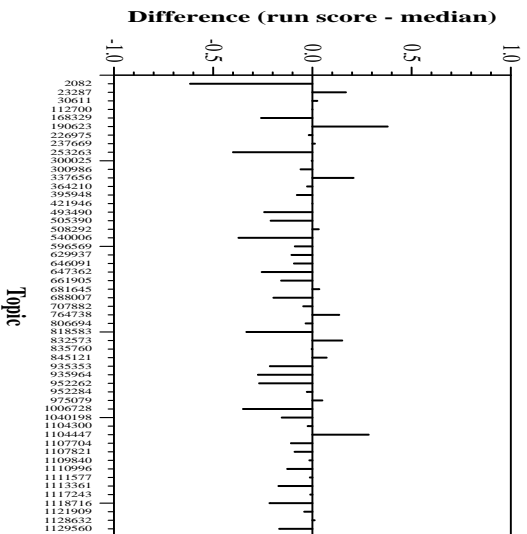


Deep Learning Track results — (Waterloo_Cormack) University of Waterloo

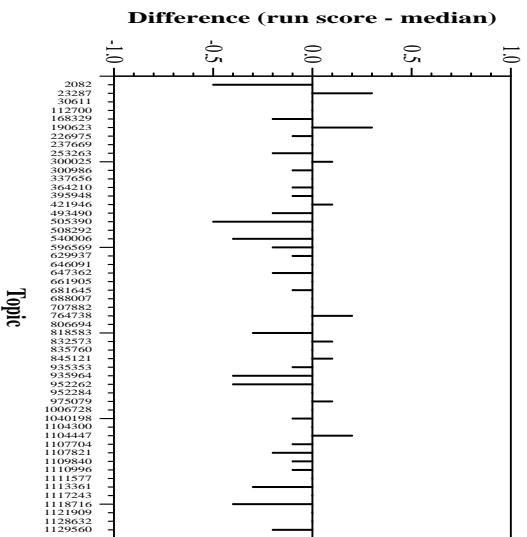
| Run Description | |
|-------------------------------|-----------------------------------|
| Run ID: | watprf |
| Task: | Passage Ranking |
| Subtask: | Reranking the official top 100 |
| Topic type: | Automatic |
| Single-stage retrieval? | Yes |
| Dense retrieval? | Yes |
| Used deep nn model? | No neural representation learning |
| Type of training: | Non-MARCO training data |
| Pre-processing/indexing cost: | 5 hours vectorization |
| Query processing cost: | 1 hour, 80 threads, no GPU |

| Overall measures | | Document Level Averages | |
|--------------------------|--------|-------------------------|-----------|
| Number of topics | 53 | | Precision |
| Total number retrieved | 5300 | At 5 docs | 0.4717 |
| Total relevant | 3427 | At 10 docs | 0.4264 |
| Total relevant retrieved | 879 | At 15 docs | 0.3950 |
| MAP | 0.1631 | At 20 docs | 0.3623 |
| Mean NDCG@10 | 0.5184 | At 30 docs | 0.3119 |
| Mean Reciprocal Rank | 0.6050 | R-Precision | |
| | | Exact | 0.2347 |

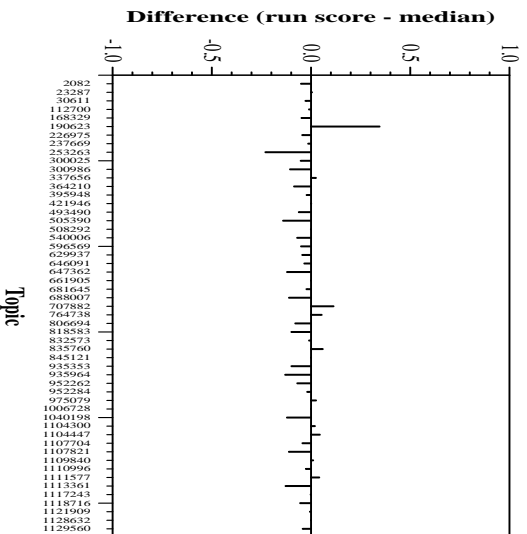




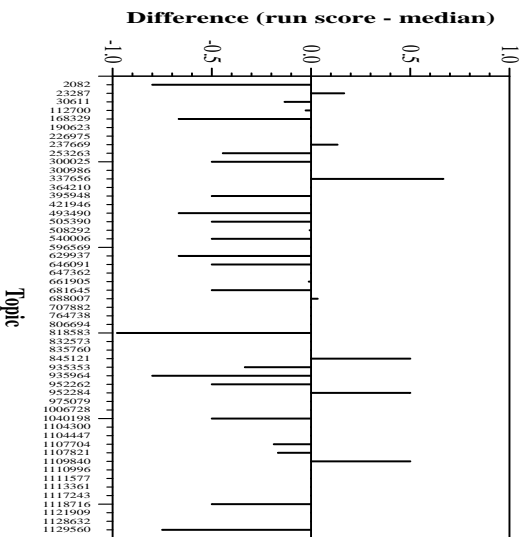
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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