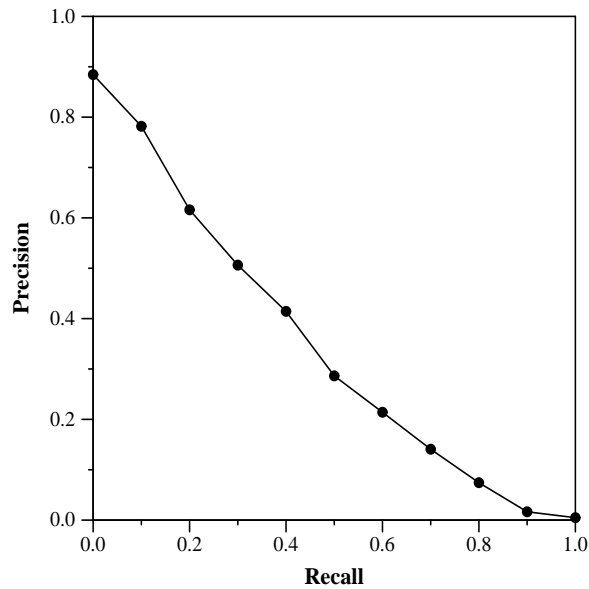
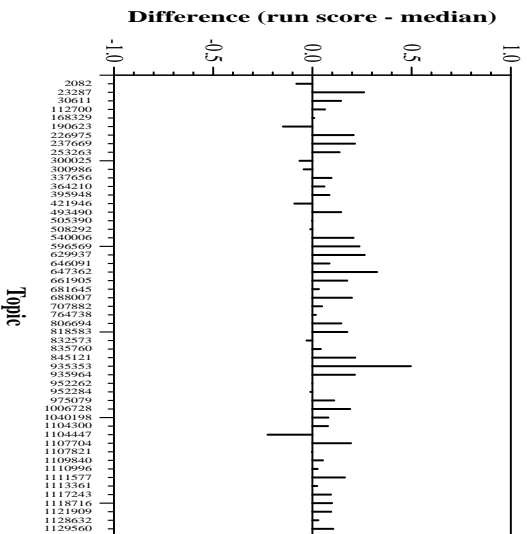


| Run Description | |
|-------------------------------|--|
| Run ID: | yorku21_c |
| Task: | Passage Ranking |
| Subtask: | Full ranking from the collection |
| Topic type: | Automatic |
| Single-stage retrieval? | No |
| Dense retrieval? | Yes |
| Used deep nn model? | Pre-trained model |
| Type of training: | Previous year's MS MARCO training data |
| Pre-processing/indexing cost: | 1 NVIDIA V100 Volta (32G HBM2 memory), 6 cores Intel Silver 4216 Cascade Lake @ 2.1GHz, 187G memory, 480G SSD total GPU minutes: 900 minutes |
| Query processing cost: | 1 NVidia V100SXM2 (16G memory), 6 cores Intel Gold 6148 Skylake @ 2.4 GHz, 186G memory, NVMe SSD 1.6T total GPU minutes: 4770 minutes |

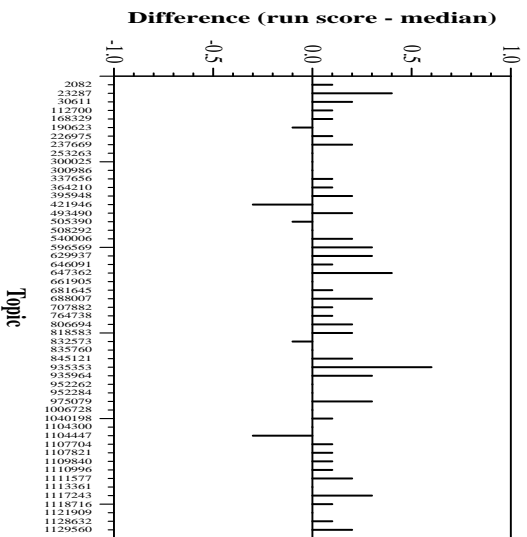
| Overall measures | |
|--------------------------|--------|
| Number of topics | 53 |
| Total number retrieved | 5300 |
| Total relevant | 3427 |
| Total relevant retrieved | 1457 |
| MAP | 0.3323 |
| Mean NDCG@10 | 0.6930 |
| Mean Reciprocal Rank | 0.8393 |

| Document Level Averages | |
|-------------------------|--------|
| Precision | |
| At 5 docs | 0.6604 |
| At 10 docs | 0.6189 |
| At 15 docs | 0.5660 |
| At 20 docs | 0.5349 |
| At 30 docs | 0.4730 |
| R-Precision | |
| Exact | 0.3815 |

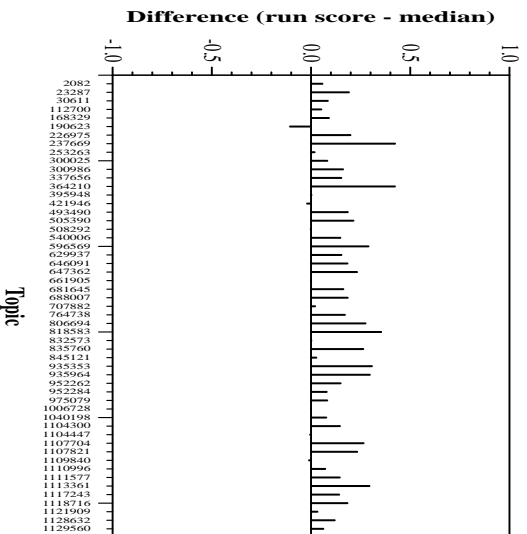




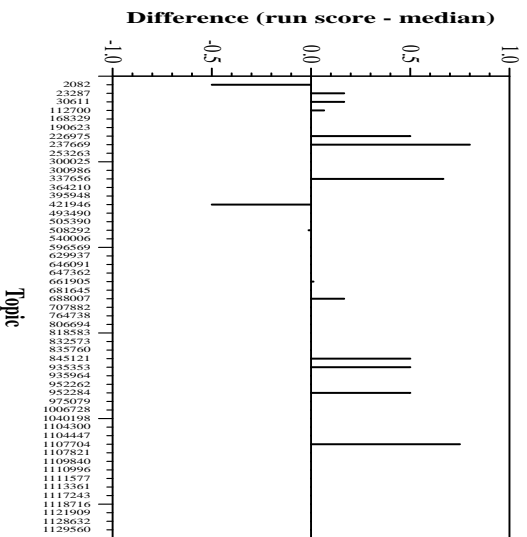
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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