## Run Description

We build an index with title and abstract from the metadata file. Non-stopwords in the query and entities tagged by SciSpacy in question and narrative fields are assigned the weight ratio of 2:3:1 to form the query. We generate a run using relevance feedback on the first 40 queries and pseudo relevance feedback on the last 5 queries. LambdaMART is used to re-rank the first 200 results. The features we use include BM25, recency, and so on.

Summary Statistics	
Run ID	udel_fang_ltr_nobert
Topic type	feedback
Contributed to judgment sets?	yes

Overall measures	
Number of topics	45
Total number retrieved	44979
Total relevant	5824
Total relevant retrieved	4198
MAP	0.3865
Mean Bpref	0.6152
Mean NDCG@20	0.7336
Mean RBP(p=0.5)	0.8745 +0.0005

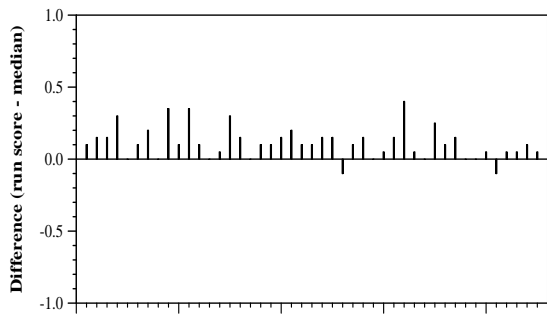| Document Level Averages	
	Precision
At 5 docs	0.9378
At 10 docs	0.8733
At 15 docs	0.8133
At 20 docs	0.7600
At 30 docs	0.6756
R-Precision	
Exact	0.4143

Document Counts at Rank 50
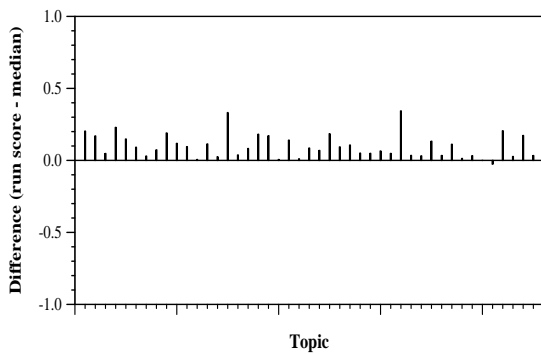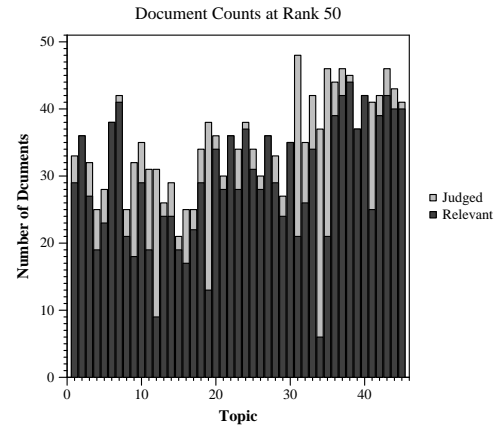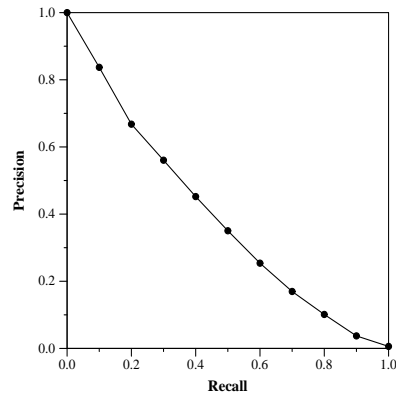
Per-topic difference from median bpref for all Round 4 runs
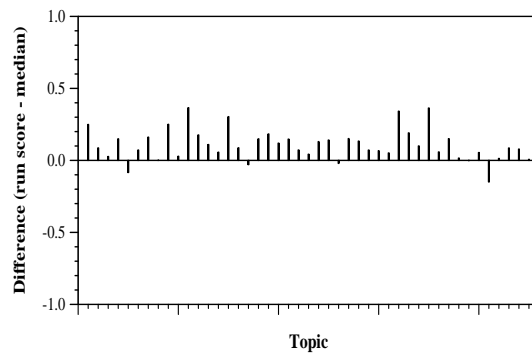
Per-topic difference from median NDCG@20 for all Round 4 runs

Per-topic difference from median P@20 for all Round 4 runs
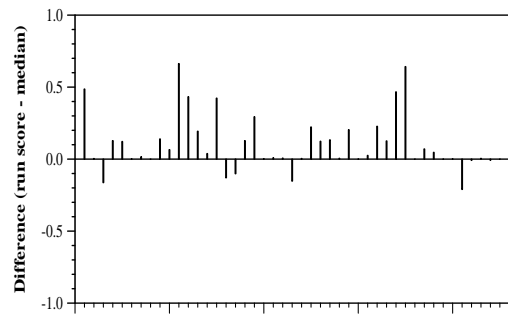
Per-topic difference from median RBP(p=0.5) for all Round 4 runs