## Run Description

We construct the keyword queries by using all non-stop words in the query field and all the entities tagged by SciSpacy in the question field. We use F2EXP as the retrieval function and axiomatic expansion method for pseudo relevance feedback. For all 35 queries, we return the first 1000 documents that were not judged for the queries. We remove the line breaks on the full text of documents and take the first 120 tokens from every document as its text representation. Then the queries and the text are sent to the pre-trained universal sentence encoder from TensorFlow hub separately to generate embeddings for both of the them. Dot product is performed on the embeddings and the output value is used as the score for the document. Based on this score the 1000 documents mentioned above are re-ranked for each of the 35 queries.

Summary Statistics	
Run ID	udel_fang_NIR
Topic type	automatic
Contributed to judgment sets?	no

Overall measures	
Number of topics	35
Total number retrieved	35000
Total relevant	3002
Total relevant retrieved	1806
MAP	0.1244
Mean Bpref	0.3801
Mean NDCG@10	0.3084
Mean RBP(p=0.5)	0.3436 +0.4217

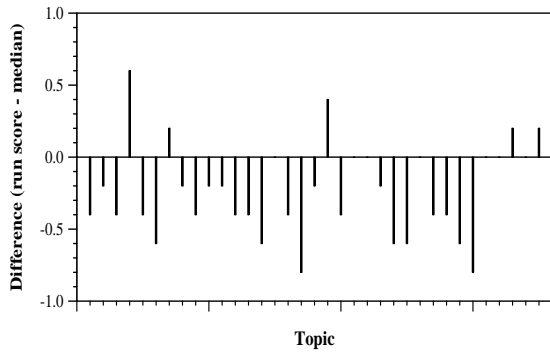| Document Level Averages	
	Precision
At 5 docs	0.3657
At 10 docs	0.3257
At 15 docs	0.3200
At 20 docs	0.2957
At 30 docs	0.2629
R-Precision	
Exact	0.1772

Document Counts at Rank 50
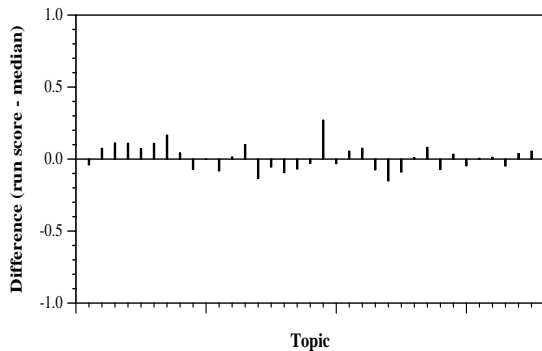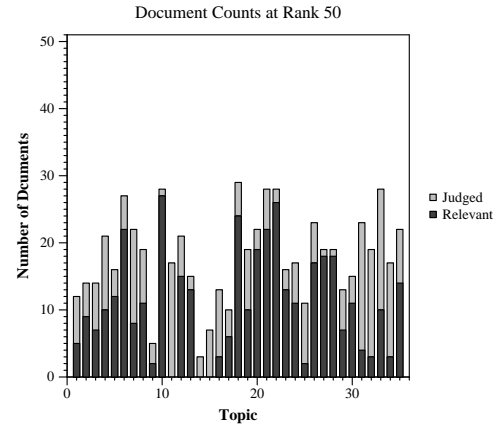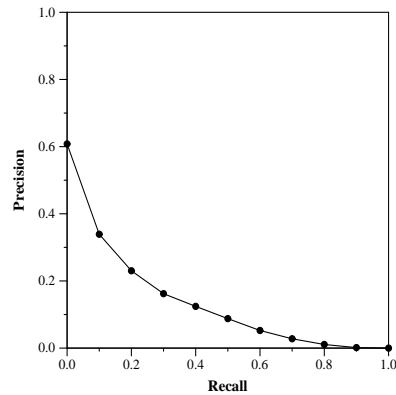
Per-topic difference from median bpref for all Round 2 runs
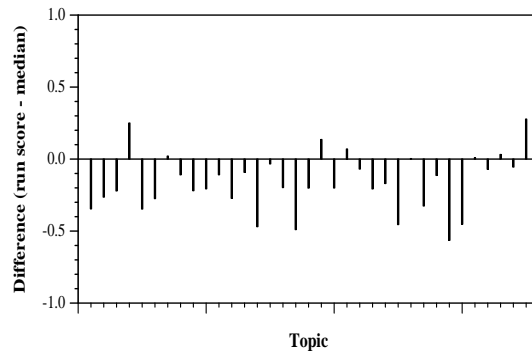
Per-topic difference from median NDCG@10 for all Round 2 runs

Per-topic difference from median P@5 for all Round 2 runs
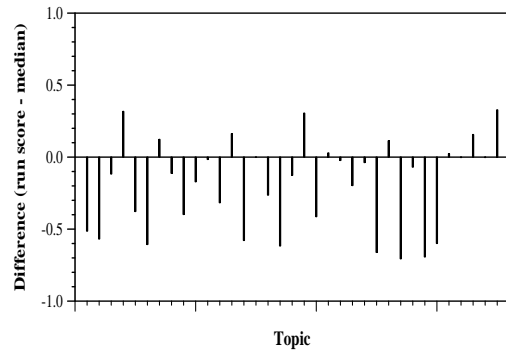
Per-topic difference from median RBP(p=0.5) for all Round 2 runs