

Conversational Assistance Track results — (UMD) University of Maryland

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| Run Description                 |   |
|---------------------------------|---|
| Run ID                          | umd2021_run2doc   |
| Submission Category             | Raw utterance and canonical responses   |
| Query Method Features           | method performs generative query rewriting  |
| Query Data Features             | method uses other external data   |
| Passage Ranking Method Features | method uses a deep learning (neural) model; method uses a pre-trained neural language model                               |
| Passage Ranking Data Features   | method is trained with TREC Deep Learning Track and/or MS MARCO dataset   |
| Conversational Context Features | method uses previous raw utterances (queries) in the topic; method uses previous automatic canonical result for the topic |

| Overall measures         |        | Document Level Averages |           |
|--------------------------|--------|-------------------------|-----------|
| Number of topics         | 158    |                         | Precision |
| Total number retrieved   | 64703  | At 5 docs               | 0.5013    |
| Total relevant           | 5505   | At 10 docs              | 0.4506    |
| Total relevant retrieved | 3207   | At 15 docs              | 0.4030    |
| Mean NDCG @ 3            | 0.3985 | At 20 docs              | 0.3731    |
| Mean NDCG @ 5            | 0.3904 | At 30 docs              | 0.3192    |
| Mean NDCG @ 500          | 0.4784 |                         |           |
| MAP @ 500                | 0.2811 |                         |           |



