

Learning to Rank

- Aim:
 - Train a **learning to rank** model to automatically rank citations for systematic review literature search
 - Machine learning has been shown to be able to **learn complex features** and produce effective results

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- Method:
 - Trained a learning to rank models using **clinical features (PICO) and basic QPPs**
 - IDFSum, IDFStd, IDFMax, IDFAvg, P-Count, I-Count, O-Count
 - Train **5 LTR models** using these features and evaluate the performance of each
 - MART, AdaRank, Coordinate Ascent, LambdaMART, Random Forests
 - **Compare** the difference between queries with PICO features and non-PICO features