

# COMPRESSED RANGE-MINIMUM QUERIES: AVERAGE-CASE ANALYSIS OF SEARCH TREES MEETS SPACE-EFFICIENT DATA STRUCTURES

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In this talk, I will report on recent results for compressed data structures to solve the range-minimum query problem, which is, given an array, report the position of a minimum in a give range  $A[i..j]$ . Although the results concern a classic data structure problem, I will show how analysis techniques and results of random binary search trees were instrumental in obtaining the new data structure.