

# Position-Aware ListMLE: A Sequential Learning Process for Ranking

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# Welcome to the poster of paper 164!

## Motivation

The position information has been highly ignored in ListMLE, from both empirical and theoretical analysis!

## Underlying Reason

The *chain rule of probability* tells us that the decomposition of ListMLE is not the unique!

## Our Contributions

- We provide a novel view of ranking as a sequential learning process.
- We propose a new ranking algorithm to incorporate positions into the learning process.
- We provide theoretical analysis on the consistency of the proposed ranking algorithm.