

Review of: "Limitations of and Lessons from the Learning of Large Language Models"

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Potential competing interests: No potential competing interests to declare.

This paper is relatively simple (from the point of view of Mathematical Logic), thus readable. It is rigorous and well organised. I would suggest to quantify “non-locality,” which, as far as I can understand, is “just” a matter of length of sequences. That is, I suggest to give some numerical estimation of the computational limits presented in the paper - it would greatly help (as a matter of fact, non-locality, even if meant to be a gergon, recalls a too ambitious reference to “quantum non-locality”). In any case, I recommend publishing the paper. As a matter of fact, I already quoted it in ongoing work:

<https://www.di.ens.fr/users/longo/files/EmergeCompareBioNovelty.pdf>

and I would love to have the authors' opinion on the soundness of my quotation (and suggestions to make it more precise).