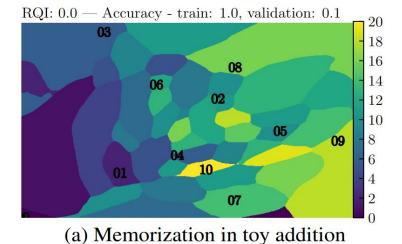
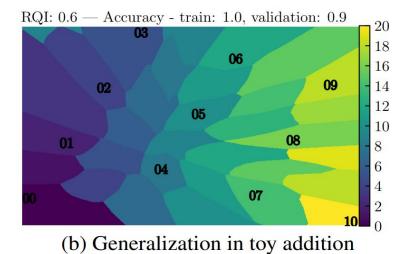
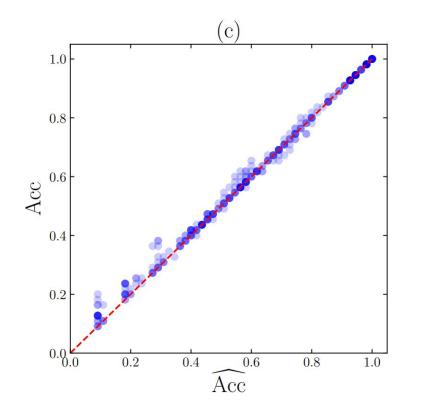
Towards Understanding Grokking: An Effective Theory of Representation Learning

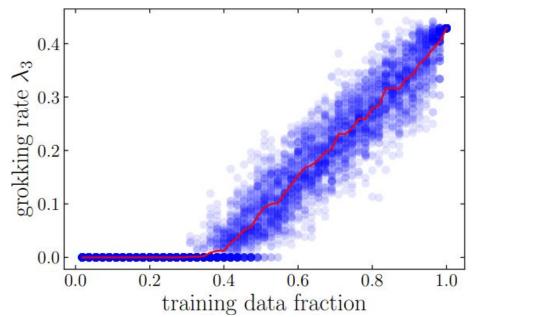
Authors: Ziming Liu, Ouail Kitouni, Niklas Nolte, Eric J. Michaud, Max Tegmark, Mike Williams

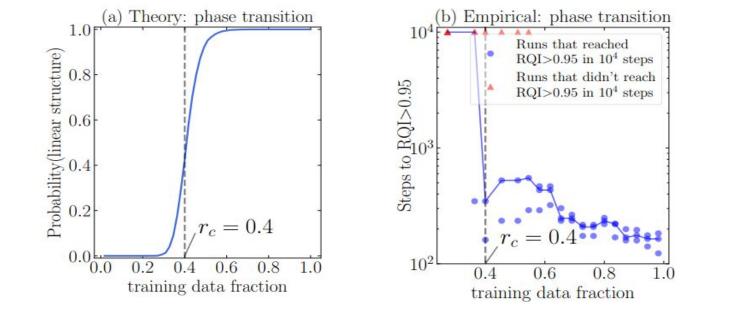
Presenter: Davide Maioli

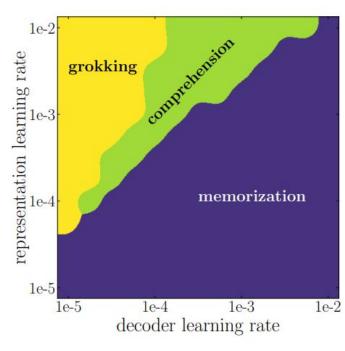




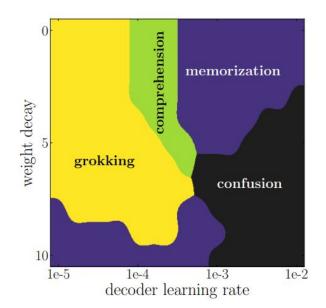




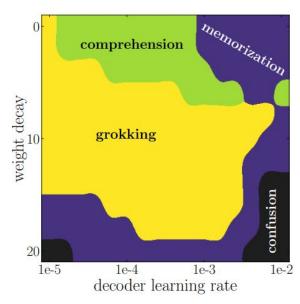




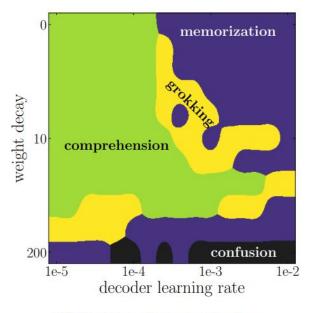
(a) Addition, regression



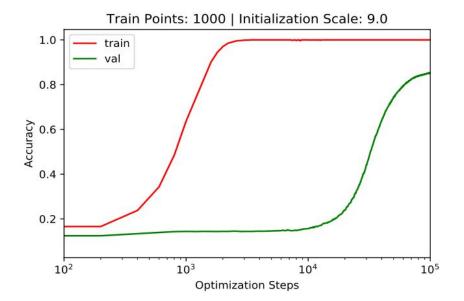
(b) Addition, regression

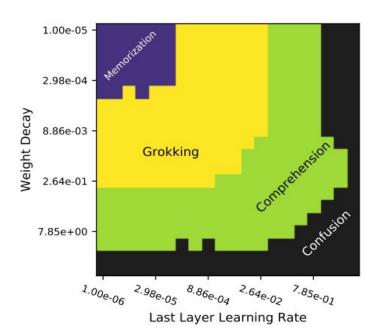


(c) Addition, classification



(d) Permutation, regression





+ Scientific method

+ Insights about DNN generalization

+ Physics inspired tools

- Broad applicability?