

## **Scaling Up Membership Inference:** When and How Attacks Succeed on LLMs

## Haritz Puerto<sup>1,2</sup>, Martin Gubri<sup>1</sup>, Sangdoo Yun<sup>3</sup>, Seong Joon Oh<sup>1,4,5</sup>

<sup>1</sup>Parameter Lab, <sup>2</sup>UKP Lab, TU Darmstadt, <sup>3</sup>Naver AI, <sup>4</sup>University of Tübingen, <sup>5</sup>Tübingen AI Center

haritz.puerto@tu-darmstadt.de

LLM training data can be detected,

## but we need 10k+ tokens



- Extension of [1] to any data scale
- We compare the MIA dist. to a dist. of known members



[1] Pratyush et al. "LLM Dataset Inference: Did you train on my dataset?." NeurIPS 2024