

# Waffle: Watermarking in Federated Learning

Can we *watermark ML models during federated learning*?

## The setting:

- De-centralized training in client-server federated learning
- Main goal: Ownership demonstration for the model owner

## The problem:

- Clients are potentially **malicious**
- Model owner **has no access** to training data

## Our solution: Waffle

- Does not require access to training data
- Negligible overhead: performance degradation (-0.17%), computational overhead (+3.2%)
- Robust against watermark removal methods

