## What is federated learning?

Federated learning [1, 2] is a kind of distributed learning.

How does federated learning differ from traditional distributed learning?

- 1. Users have control over their device and data.
- 2. Worker nodes are unstable.
- 3. Communication cost is higher than computation cost.
- 4. Data stored on worker nodes are not IID.

## References

- 1. McMahan and others: Communication-efficient learning of deep networks from decentralized data. In AISTATS, 2017.
- 2. Konevcny, McMahan, and Ramage: Federated optimization: distributed optimization beyond the datacenter. arXiv:1511.03575, 2015