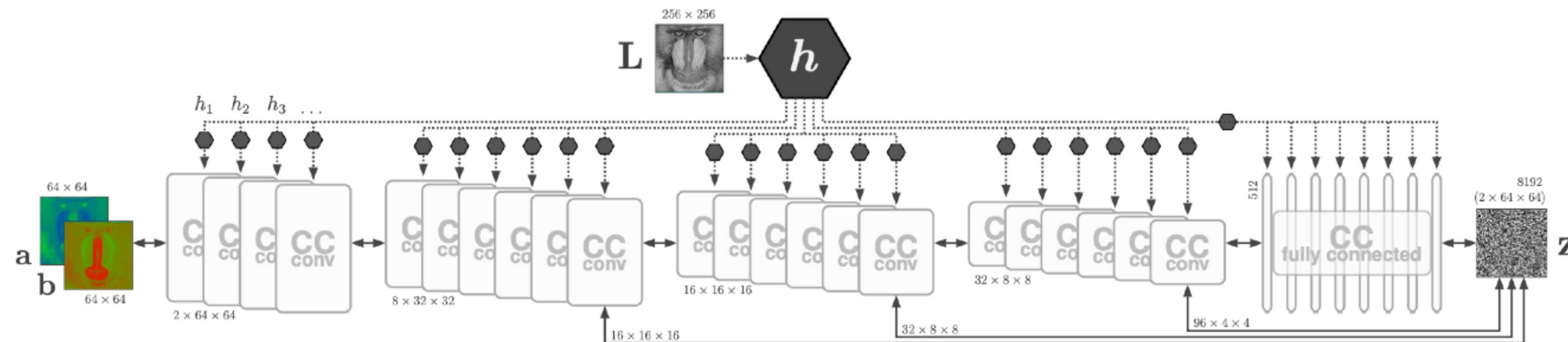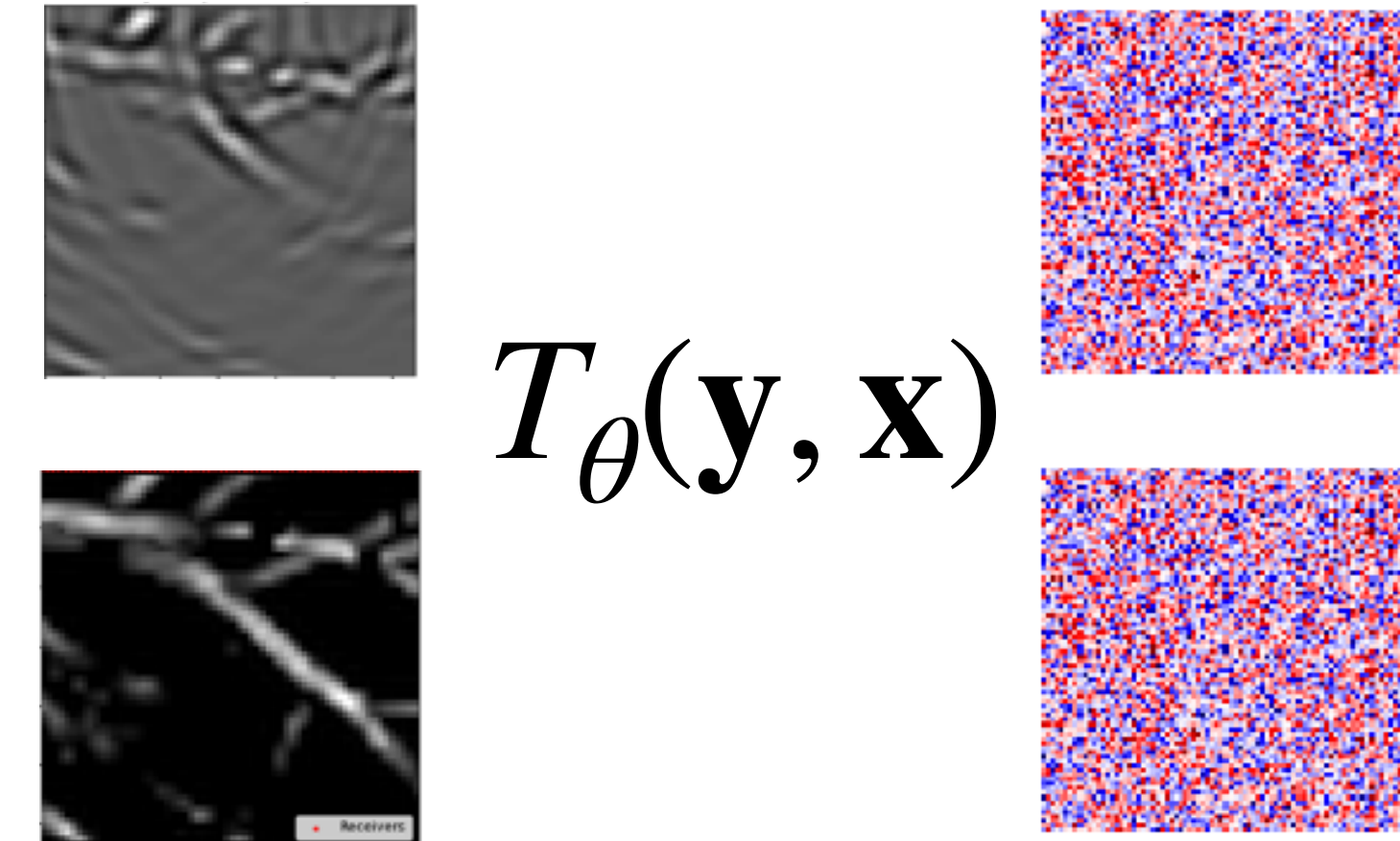# Conditional NF: Comparing Paradigms

cHINT is learning the conditional distribution **and also the joint distribution.**

cINN doesn't learn distribution on $\mathbf{y}$.

Both mathematically rock solid.

$$T_\theta(\mathbf{y}, \mathbf{x})$$

55   Kovachki, Nikola, et al. "Conditional sampling with monotone GANs." arXiv preprint arXiv:2006.06755 (2020).
Marzouk, Youssef, et al. "An introduction to sampling via measure transport." arXiv preprint arXiv:1602.05023 (2016).

Normalizing Flows
Extensions: Continuous Normalizing Flows