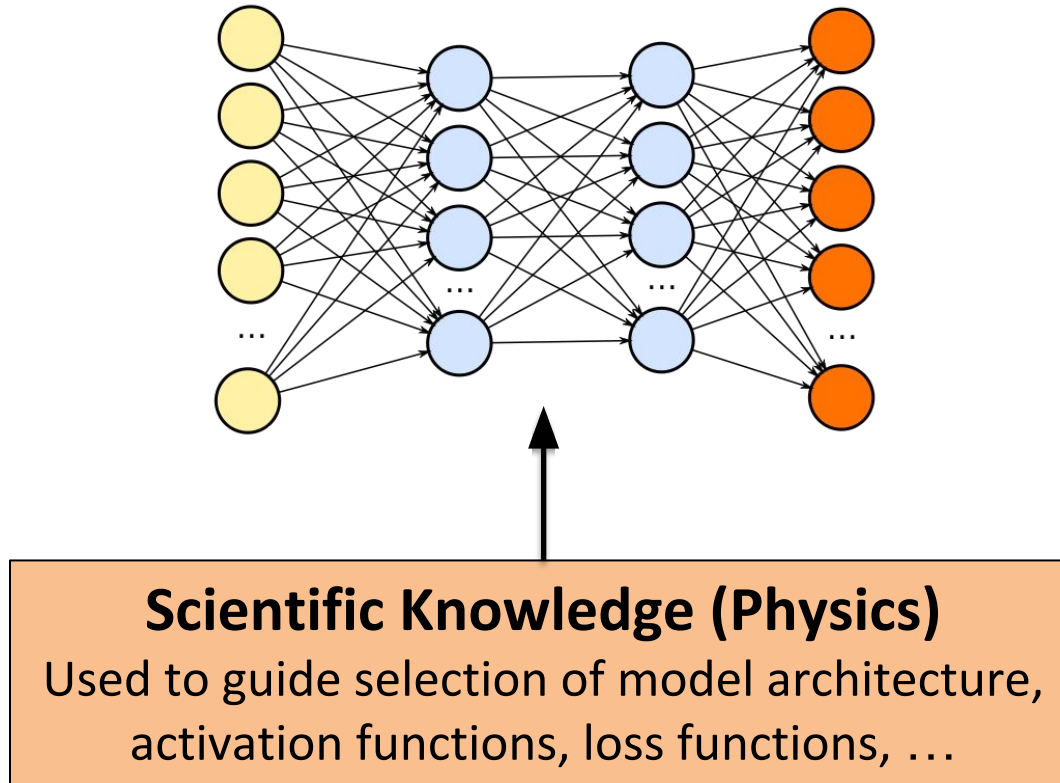


# Physics-Guided Neural Networks (PGNN)

A Framework for Learning **Physically Consistent** Deep Learning Models



Karpatne et al., “Physics-guided neural networks (PGNN):  
Application in Lake Temperature Modeling,” SDM 2018 (in review; [arXiv: 1710.11431](#)).