

# Consolidating the Meta-Learning Zoo

## A Unifying Perspective as Posterior Predictive Inference

- **Novel:** Probabilistic, amortized, multi-task, meta-learning framework.
- **Meta-learning:** Learns how to learn a classifier or regressor for each new task.
- **Unifies:** MAML, Meta-LSTM, Prototypical networks, and Conditional Neural Processes are special cases.
- **State of the art:** Leading classification accuracy on 5 of 6 Omniglot & *mini*ImageNet tasks.
- **Efficient:** Test-time requires only forward passes, no gradient steps are needed.
- **Versatile:** Robust classification accuracy as shot and way are varied at *test*-time.
- **High quality 1-shot view reconstruction:**

