University at Buffalo Department of Computer Science and Engineering School of Engineering and Applied Sciences



**Research Category:** A) Theory, B) Artificial Intelligence

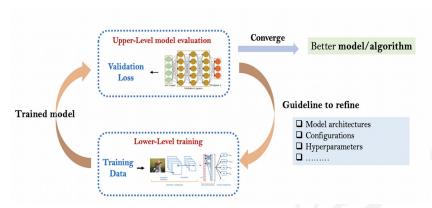
**Research Area:** Optimization, Machine Learning, Big Data Analytics, Federated Learning and Networks

**Research Application:** Edge Computing, Image Processing, Data Science Applications

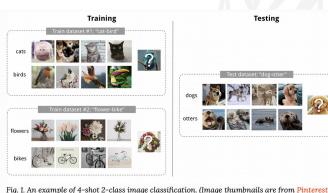
## **Selected Research Projects:**

Bilevel Optimization for Deep Learning and Edge Computing

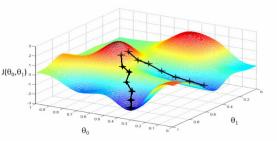
Provable Algorithms for Meta-Learning and Continual Learning with Streaming Data or Tasks



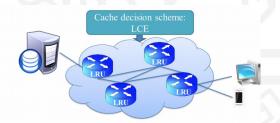
Automated Hyperparameter Search



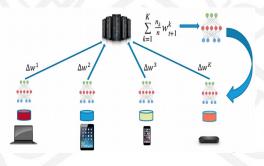
Learn to Extract Prior Knowledge



Optimization for Machine Learning



Resource Allocation over Networks



Federated Learning over Edge Devices 13