

## Quadratic & Synthetic Simulation

**Requirements:** Python 3.5

**Example Run:**

- Quadratic simulation:
  - To run optimizer: `python3.5 quadratic_sim.py`
  - To get rho values: `python3.5 quadratic_theorho.py`
- Synthetic simulation:
  - `python 3.5 run_synthetic.py`

## DNN Experiment

**Requirements**

- Python 3.5
- PyTorch 1.0.0
- TorchVision 0.2.1
- pdsh, parallel shell

**Example Run:**

To run the algorithms run this command.

```
bash launch_exp.sh
```

Change the parameters accordingly (ex: for Sent140 experiment change to 'train\_dnn\_text.py' and change dataset to 'twitter'). Need to change distributed training parameters according to cluster information including --initmethod and host names.