

# Sep 19 compare gpytorch MOGP with M3GPR

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<https://github.com/junfish/Awesome-Multitask-Learning?tab=readme-ov-file#regression-task>

<https://www.bristol.ac.uk/cmm/learning/support/datasets/>

<https://github.com/nm1ll/stat-mtl/tree/main/Dataset%20creation%20-%20ILEA%20data>

## Writing

Start from the simplest case using Harpoon Dataset where each task has the same number of datapoints

Compare the performance and matrix structure where rank is different, data kernel used is different and if each dimension's hyperparameter is the same

Additive compositive kernel vs kronecker product composite kernel

Divide data into tasks/clusters to which level

Run harpoon data as a whole(only one output, doesn't work?)

One feature is better to be a grouping variable or a feature variable

How to use gpytorch to implement LMC?