About

Open the "BVCKMR_Sim_RunCode". It calls the other source files ("BVCKMR_Sim_Data" which structures the dataset, "BVCKMR_Sim_Initialize" which initializes the priors, and "BVCKMR_MCMC" which runs the MCMC iterations).

In this example, we assume that the true exposure-response relationship is quadratic with interaction. We can compare the BVCKMR-estimated h vs. the true h for h1 and h2 (intercept, slope, R^2, RMSE):

```
> Summary.h
            [,1]       [,2]       [,3]       [,4]
[1,]   0.01929869 0.9668377 0.9435789 0.3601507
[2,]  -0.03084868 1.0150739 0.9753257 0.2185316
```

We can make plots of the relative importance using "BVCKMR_Sim_RelativeImportance", and plots of the heatmap using "BVCKMR_Sim_Heatmap".

Baseline (h1)

Trajectory (h2)

BVCKMR Estimated h1(z1, z2)

BVCKMR Estimated h2(z1, z2)

True h1(z1, z2)

True h2(z1, z2)