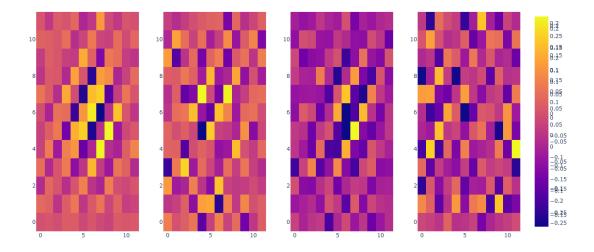
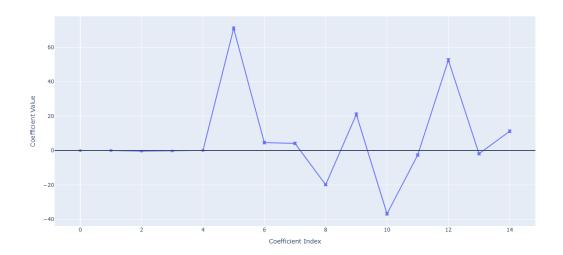
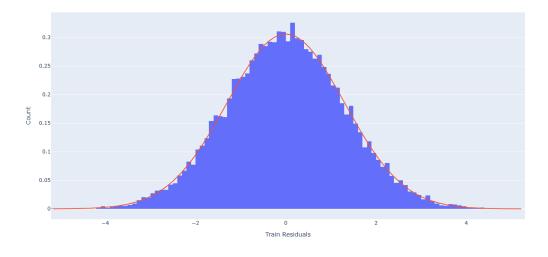
```
# calculate residuals
fitted_train = np.matmul(X_train, coefs)
residuals_train = Y_train - fitted_train

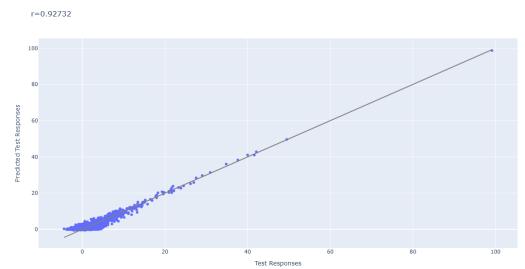
# compute correlation coefficient on test data
fitted_test = np.matmul(X_test, coefs)
rho_test = np.corrcoef(Y_test, fitted_test)[0, 1]
```

The best set of parameters: nRDs=4, order=2

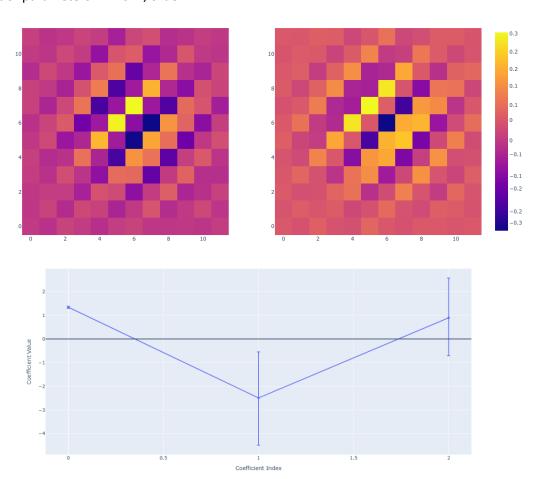


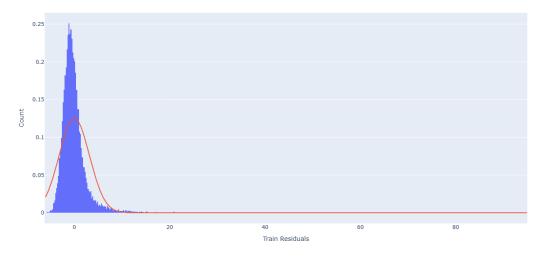




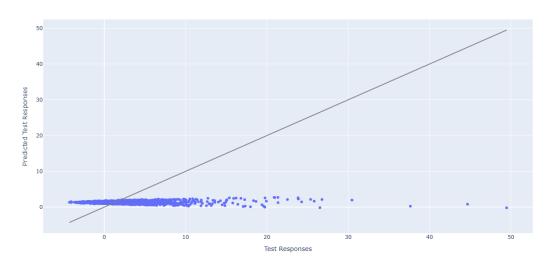


The poorest set of parameters: nRDs=2, order=1

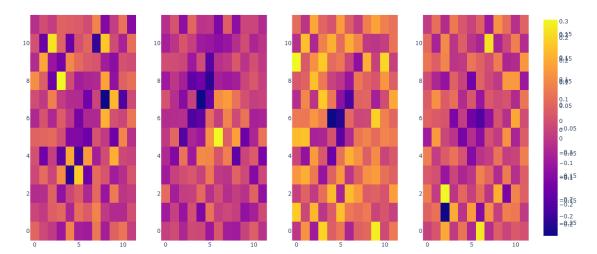


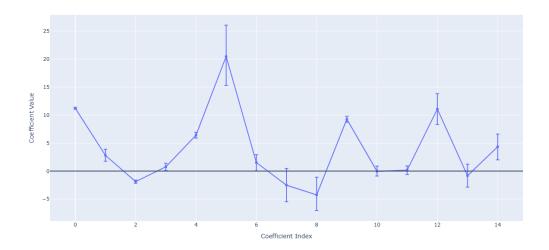


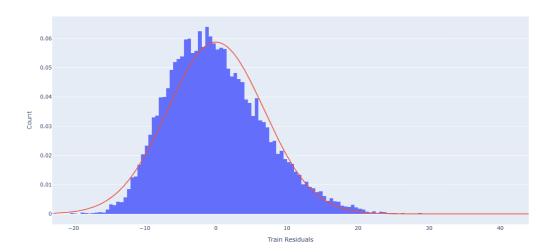
r=0.03051



2. The best set of parameters meet the modelled case: nRDs=4, order=2







r=0.49008

