```
HierarchyNNIG <Hypers>

vector<MatrixXd> state;
shared_ptr<Hypers> hypers;

VectorXd eval_marg(MatrixXd datum);
VectorXd like(MatrixXd datum);
void sample_given_data(MatrixXd data);
void draw();
vector<double> normal_gamma_update(VectorXd data,
double mu0, double alpha0, double beta0, double lambda0);

**State( 2, MatrixXd(1,1) )

**Check in Algorithm Constructor if data is univariate
```

##