

c) Sampler

Sampler:

- loadRates(\cdot)
- initialiseChains(\cdot)
- Run chains in parallel
- Continuous time (gumbel, max step)
- Metropolis correction,
$$\frac{\rho(s')}{\rho(s)} = \frac{\Gamma_{s \rightarrow s'}}{\Gamma_{s' \rightarrow s}}$$

Model
serialization

Parameters v

Simulation
hyperparameters

Operator:

Compile operators for given input shape.

- Diagonal $\hat{O}_{ss'}^D = O(s)\delta_{ss'}$
- Off-diagonal $O_{s_k}^L = \sum_{s'} \Gamma_{s \rightarrow s'} O_{s_k s'}$
- Predefined $\hat{\sigma}^z, \hat{\sigma}^x$, etc.

Evaluate operators if needed,
otherwise output trajectory $\Sigma[0, t] \sim \Gamma^{(v)}$

Combine
chains

