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Notes on Gaussian Process Regression (GPR)

`https://camillejr.github.io/science-docs/`

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1 Introduction

2 Covariance matrix

3 Covariance kernel

Squared exponential kernel:

$$K(x_i, x_j) = h^2 \exp(\frac{-(x_i + x_j)^2}{\lambda^2}) \tag{1}$$

References

[1] S. Roberts, M. Osborne, M. Ebden, S. Reece, N. Gibson, S. Aigrain *Gaussian Processes for Timeseries Modelling*, 2012