

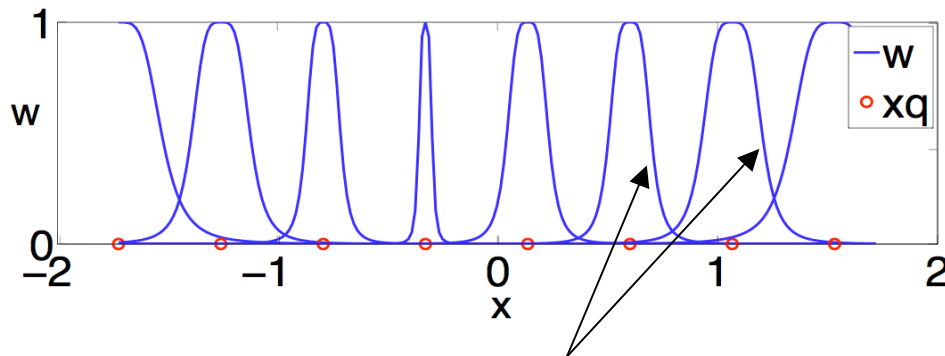
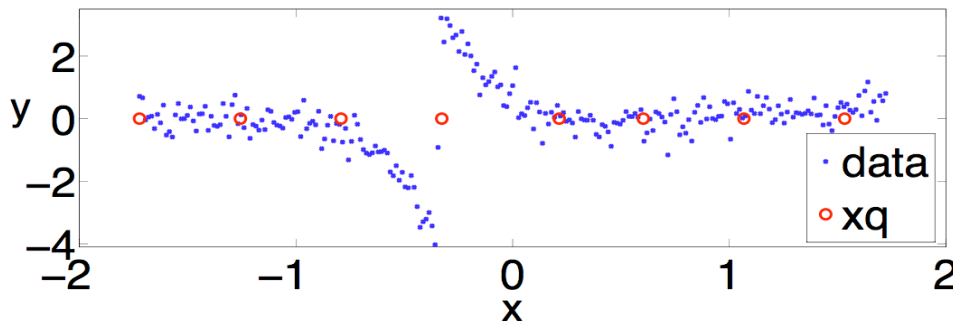
Bayesian Kernel Shaping for Learning Control

Poster
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Formulation of nonparametric locally weighted regression that estimates bandwidth (h) & regression coefficient (b)



Learnt weighting kernels at query points x_q

Properties:

- computationally efficient
- no sampling needed
- automatically rejects outliers
- only one prior to be specified

Can be used in nonlinear methods (e.g., Gaussian processes)

Useful for computationally efficient function approximation & highly accurate local linearizations (e.g., for deriving controllers)