## Lecture 14: Bayesian Linear Regression

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Probabilistic interpretation of leas
squares - Estimating the
measurement noise



## Reminder: Generalized linear model and least squares fit

Thought and least squares int

$$x_{1:N} = (x_1, ..., x_N)$$
;  $y_{1:N} = (y_1, ..., y_N)$ 
 $y = w_1 \varphi_1(x) + ... + w_n \varphi_m(x) = \sum_{j=1}^n w_j \varphi_j(x) = \varphi(x) w$ 
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