

A diagram illustrating Bayes' theorem. The equation is $p(\theta|D) = \frac{p(D|\theta) p(\theta)}{p(D)}$. Labels with arrows point to each part: 'posterior' points to $p(\theta|D)$; 'likelihood' points to $p(D|\theta)$; 'prior' points to $p(\theta)$; and 'marginal likelihood' points to $p(D)$.

posterior

likelihood

prior

$$p(\theta|D) = \frac{p(D|\theta) p(\theta)}{p(D)}$$

marginal likelihood