



A contour plot of a loss function  $L_{\mathcal{B}}$  with elliptical level sets. The color gradient ranges from blue (high loss) to red (low loss), with the minimum at the center. A path of three black dots shows the iterative steps of gradient descent, starting from a grey dot and moving towards the center. The equation  $w(t+1) = w(t) - 0.03 \nabla L_{\mathcal{B}}(w(t))$  is displayed in a white box at the top.

$$w(t+1) = w(t) - 0.03 \nabla L_{\mathcal{B}}(w(t))$$