

Contour plot of the gradient field on a negative log-likelihood surface. The plot shows two sets of nested contours, one in green (left) and one in blue (right), representing different levels of the log-likelihood function. Red arrows indicate the direction of the gradient field, pointing towards the minima. A black star marks the global minimum at approximately (1.0, 0.0). The axes are labeled  $\theta_1$  and  $\theta_2$ , ranging from -3 to 3.