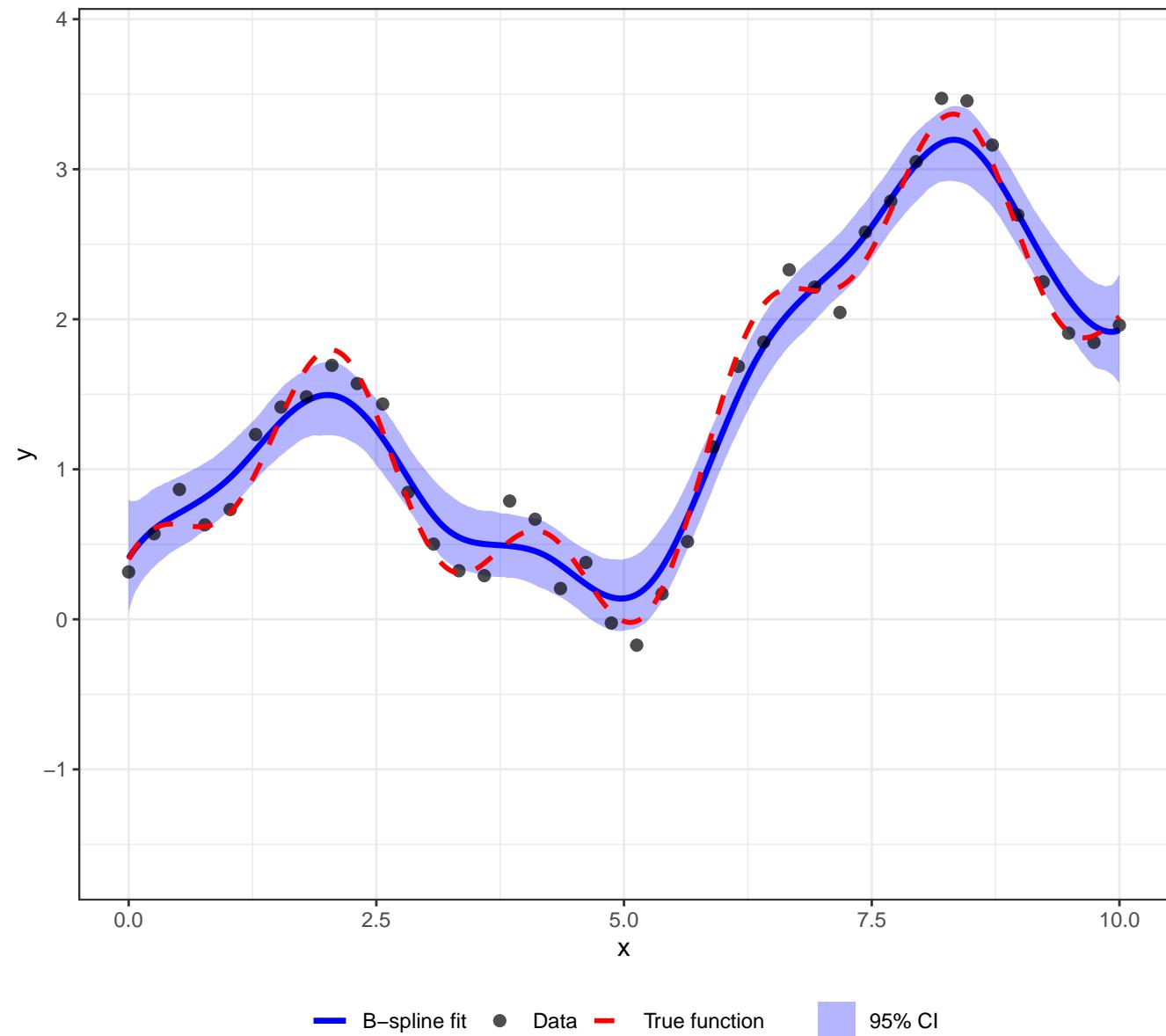


# B-spline Fit Demonstrating Key Features

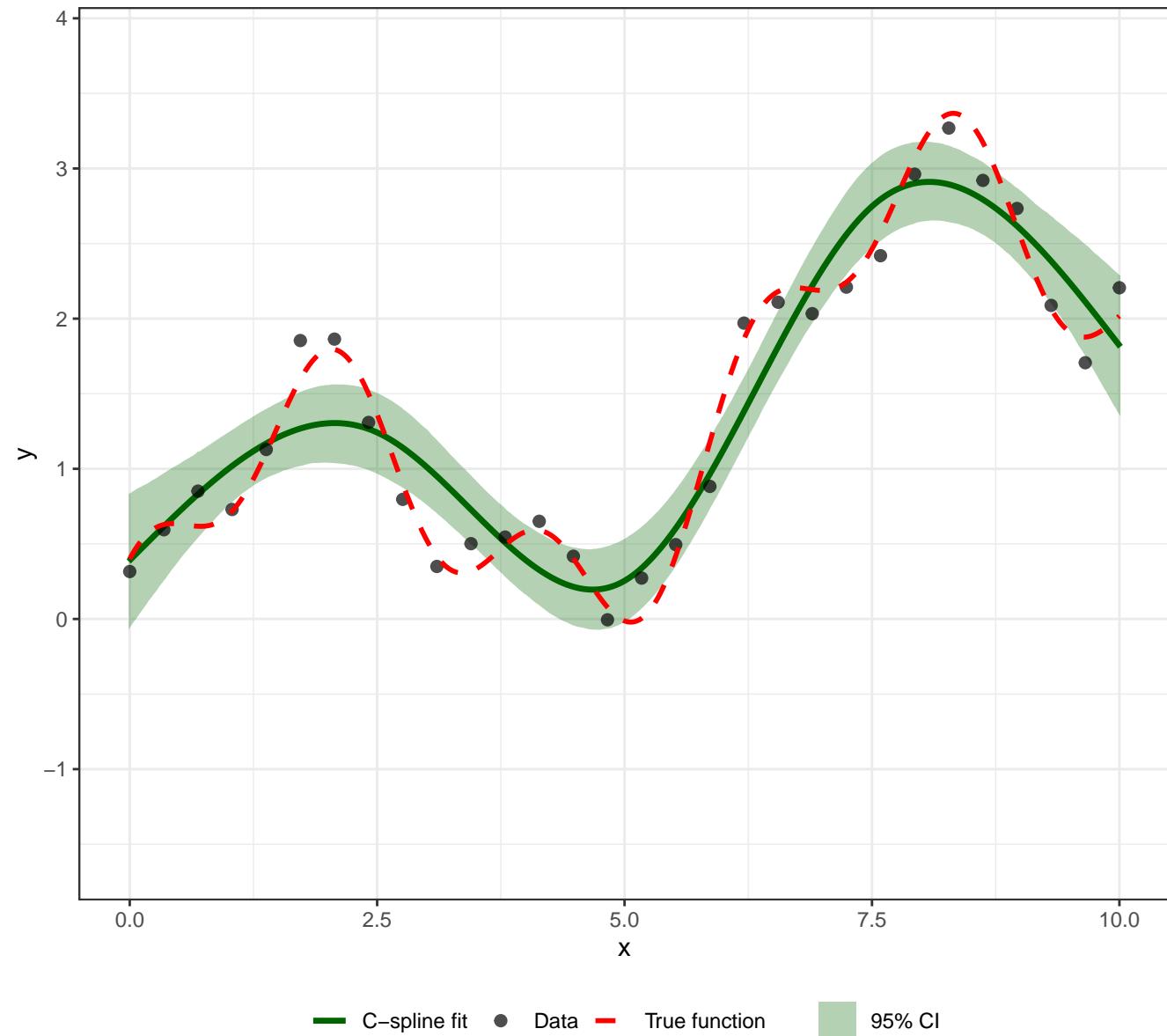
True function:  $\sin(x) + 0.4 \cdot \cos(3x) + 0.25 \cdot x$



Parameters: knots = 20, smoothing\_strength = 2, Estimated sigma = 0.219

# C-spline (Natural Cubic Spline) Fit with 95% Credible Interval

True function:  $\sin(x) + 0.4 \cdot \cos(3x) + 0.25 \cdot x$



Parameters: num\_knots = 5, Estimated sigma = 0.347