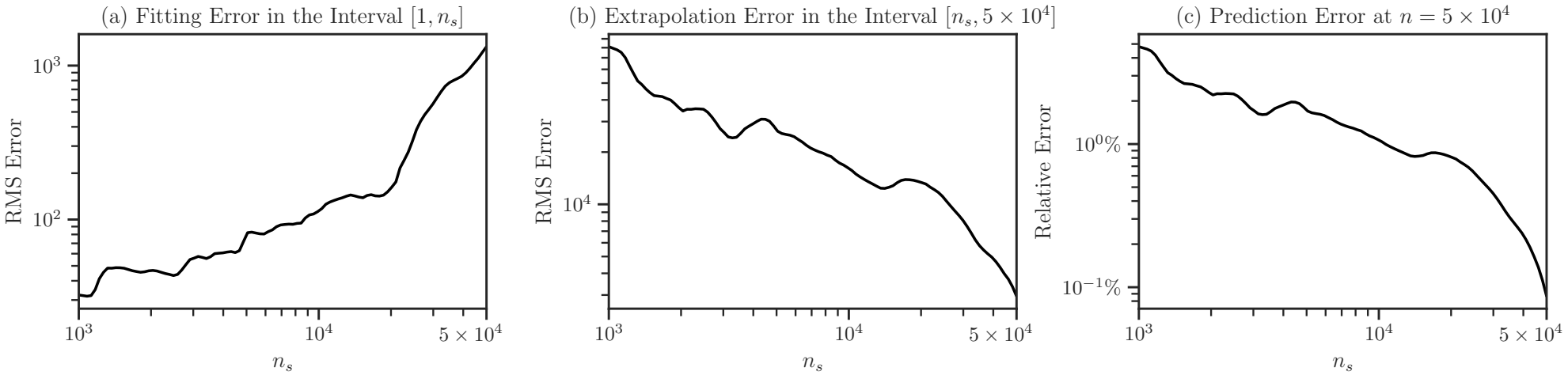

Figure J.2. Sensitivity of FLODANCE to the choice of fitting interval size n_s. Based on ResNet50 trained on the full CIFAR-10 dataset with $n = 5 \times 10^4$ data points and $d = 10$ classes, resulting in NTK matrices of size $m = nd = 10^5$. FLODANCE extrapolates log-determinants by fitting a model on submatrices of size $n_0 = 1$ to n_s, and extending this fit to larger sizes up to n. (a) Root-mean-square error (RMSE) of the fit in the interval $[1, n_s]$, showing increasing fitting error as n_s grows. (b) RMSE of extrapolation in the interval $[n_s, n]$, which decreases with n_s. (c) Relative error of predicting the log-determinant at $n = 5 \times 10^4$, again decreasing with n_s.