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$$\text{MAE} = \frac{1}{N} \sum_{i=1}^{N} \left| \hat{b}_i - b_i \right|$$

$$\text{MSE} = \sum_{i=1}^{N} \left((\hat{l}_i + p_i)^2 + (\hat{r}_i + p_i)^2 \right)$$

$$\text{RMSE} = \sqrt{\text{MSE}}$$

$$\text{Relative MAE} = \frac{\text{MAE}}{\sum_{i=1}^{N} (r_i - l_i)} \cdot 100\%$$