

Calculation of the relative root mean square (RRMS) error in JSim:

$$\text{RRMS error} = \text{RMS error} / \sigma_w$$

- Where RMS error is the root mean square error of the model fit to data (See [http://www.physiome.org/jsim/docs/User\\_Optim.html#stop](http://www.physiome.org/jsim/docs/User_Optim.html#stop) for more information),

- The weighted mean =  $\mu = \frac{\sum w_i * y_i}{\sum w_i}$ , the sum from 1 to N where N is # of data points,  $y_i$  is data point and  $w_i$  is weight associated with  $y_i$ .

- And the point weighted sample standard deviation:

$$\sigma_w = \sqrt{\frac{\sum w_i * (y_i - \mu)^2}{(N-1) * \sum w_i}}$$