$$a_0 = \bar{y} - a_1 \bar{x} \qquad a_1 = \frac{\sum_i xy - \frac{\sum_i x \sum_i y}{n}}{\sum_i x^2 - \frac{(\sum x)^2}{n}}$$

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Ec. normales: $\sum_i y_i = n a_0 + a_1 \sum_i x_i$

$$\sum_i x_i y_i = a_0 \sum_i x_i + a_1 \sum_i x_i^2$$

$$n a_0 + a_1 \sum x_i = \sum y_i \qquad a_0 \sum_i x_i + a_1 \sum_i x_i^2 = \sum x_i y_i$$

$$a_0 = \frac{\sum y_i - a_1 \sum_i x_i}{n} \qquad a_1 = \frac{n \sum_i x_i y_i - \sum x_i \sum_i y_i}{n \sum x_i^2 - (\sum_i x_i)^2}$$

$$a_1 = \frac{n \sum xy - \sum x \sum y}{\sum x^2 - \frac{(\sum x_i)^2}{n}}$$

$$a_0 = \frac{\bar{y} - a_1 \bar{x}}{n} \qquad a_1 = \frac{n \sum xy - \sum x \sum y}{n \sum x^2 - (\sum_i x)^2}$$

$$a_0 = \bar{y} - a_1 \bar{x} \qquad a_1 = \frac{\sum xy - \frac{\sum x \sum y}{n}}{\sum x^2 - \frac{(\sum x)^2}{n}}$$

$$\chi^2(a_0, a_1, a_2) = \sum_{i=1}^{n} (y_i - (a_0 + a_1 x_i + a_2 x_i^2))^2$$

S. Es: $\sum_{i=1}^{n} [a_0 + x_i a_1 + x_i^2 a_2 = y_i]$

$$\sum_{i=1}^{n} [a_0 x_i + a_1 x_i^2 + a_2 x_i^3 = x_i y_i]$$

$$\sum_{i=1}^{n} [a_0 x_i^2 + a_1 x_i^3 + a_2 x_i^4 = x_i^2 y_i]$$

$$\frac{\partial \chi^2}{\partial a_0} = -2 \sum (y_i - (a_0 + a_1 x_i + a_2 (x_i^2))) = 0$$

$$\frac{\partial \chi^2}{\partial a_1} = -2 \sum (y_i - (a_0 + a_1 x_i + a_2 (x_i^2))) x_i = 0$$

$$\frac{\partial \chi^2}{\partial a_2} = -2 \sum_i (y_i - (a_0 + a_1 x_i + a_2 (x_i^2))) x_i^2 = 0$$

$$\sum a_0 + a_1 x_i + a_2 (x_i^2) = \sum_i y_i$$

$$\sum a_0 x_i + a_1 x_i^2 + a_2 x_i^3 = \sum x_i y_i$$

$$\sum_i a_0 x_i^2 + a_1 x_i^3 + a_2 x_i^4 = \sum x_i^2 y_i$$