

# Sensitivity analysis for optimization results

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## 1 Grid search recap

We performed a grid search over initial values in an effort to find the global optimum of the objective function

$$f(\mathbf{k}) = \frac{1}{n_1} \sum_{a=65}^{90} \left( \log(\widehat{I}(\mathbf{k}, a)) - \log(I(a)) \right)^2 + \frac{1}{n_2} \sum_{i \in I} \sum_{a=50}^{95} \left( \log(\widehat{P}u_i(\mathbf{k}, a)) - \log(Pu_i(a)) \right)^2. \quad (1)$$