$$y = a\,x + b\,y + c$$

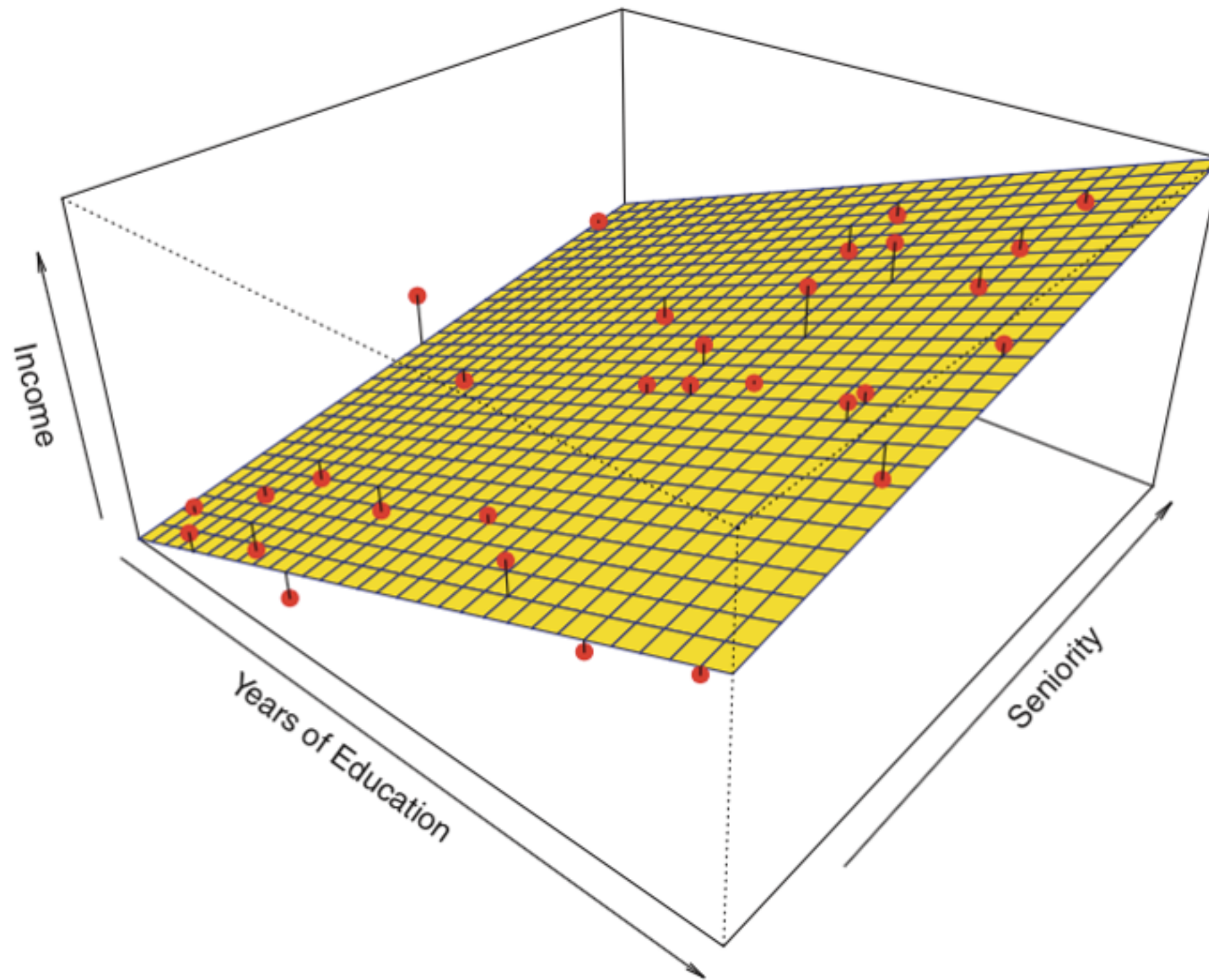**General formulation:**

$$y(\mathbf{x}, \mathbf{w}) = w_0 + w_1 x_1 + ... + w_D x_D$$