H358K: December 4th, 2023. Simple Linear Regression. Y = B + B = + E is called the simple linear regression model (SLR) ω/ Bo ... the intercept parameter By ... the slope parameter E... the error such that E~ Normal (mean=0, var=(02) Note: We have three parameters: Bo, B1, 0 Goal: Design a recipe to estimate the parameters Bo and Ba using a data set:  $(x_1, y_1), (x_2, y_2), ..., (x_n, y_n)$ Since (\$\overline{x}\$,\$\overline{y}\$) is always on the least-squares line, Bo = y - By =