

# Multiple Regression Model

- Intercept  $\alpha$  predicts where the regression plane crosses the Y axis
- Slope for variable  $X_1$  ( $\beta_1$ ) predicts the change in Y per unit  $X_1$  holding  $X_2$  constant
- The slope for variable  $X_2$  ( $\beta_2$ ) predicts the change in Y per unit  $X_2$  holding  $X_1$  constant

