$\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 \cdot x$

Observed y_i

SST

SSE

SSR

$\hat{y}_i$

$\bar{y}$

Figure 1: Visual representation of regression variability. **SST** (green) is total variability from the mean, **SSR** (pink) is explained variability, and **SSE** (orange curly brace) is the residual (unexplained) variability between the observed value y_i and the prediction $\hat{y}_i$.