

# Logistic Regression

Biostatistics 510

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# Logistic regression

- Most important model for ***categorical response*** ( $y_i$ ) data
- Categorical response with 2 levels (*binary*: 0 and 1)
- Categorical response with  $\geq 3$  levels (nominal or ordinal)
- Predictor variables ( $x_i$ ) can take on *any* form: binary, categorical, and/or continuous

# Logistic Regression Curve

