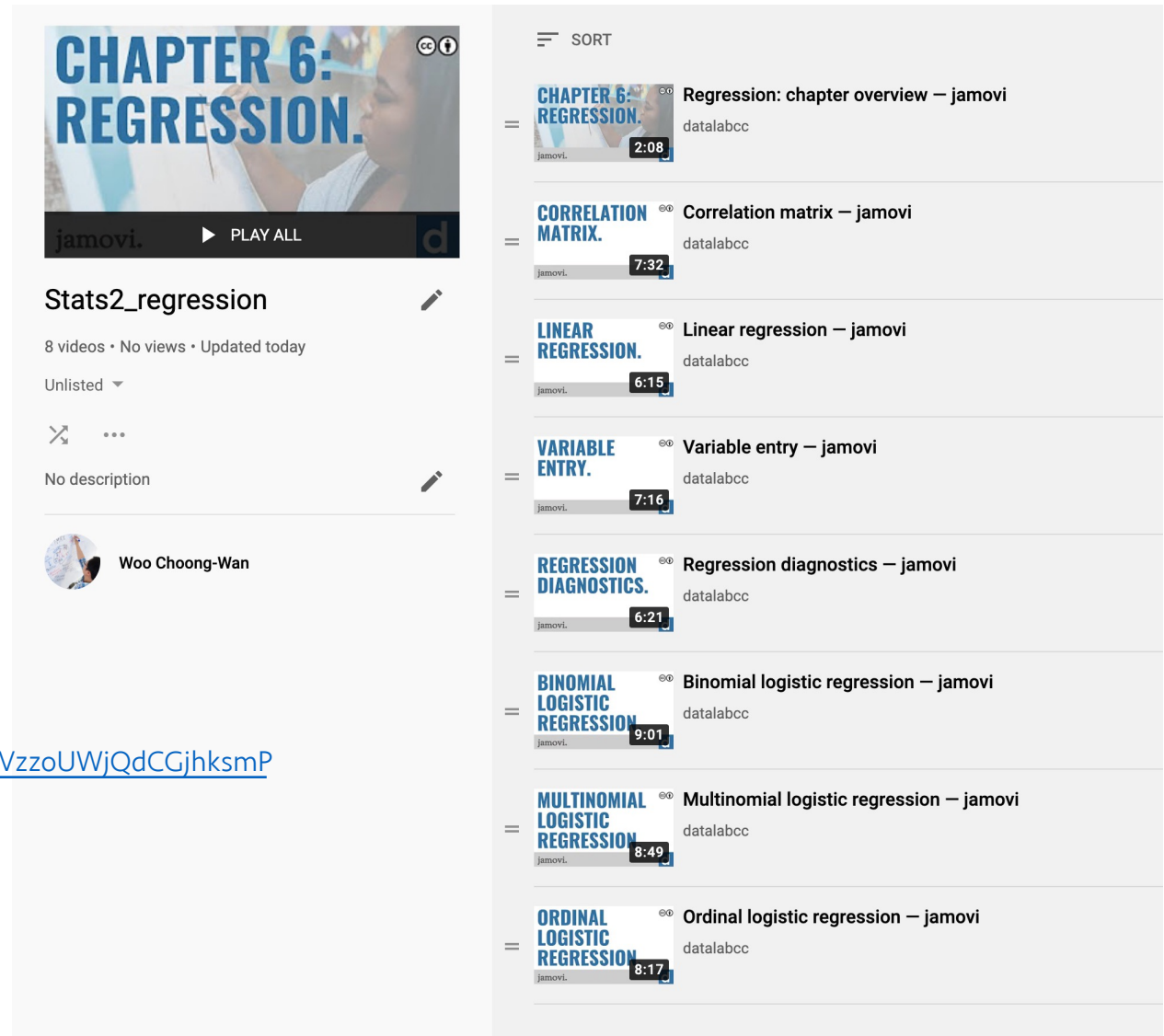


Lecture 20

Logistic regression

Regression with JAMOVİ



CHAPTER 6: REGRESSION.

jamovi. PLAY ALL

Stats2_regression

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Woo Choong-Wan

CHAPTER 6: REGRESSION. Regression: chapter overview — jamovi
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CORRELATION MATRIX. Correlation matrix — jamovi
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LINEAR REGRESSION. Linear regression — jamovi
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VARIABLE ENTRY. Variable entry — jamovi
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REGRESSION DIAGNOSTICS. Regression diagnostics — jamovi
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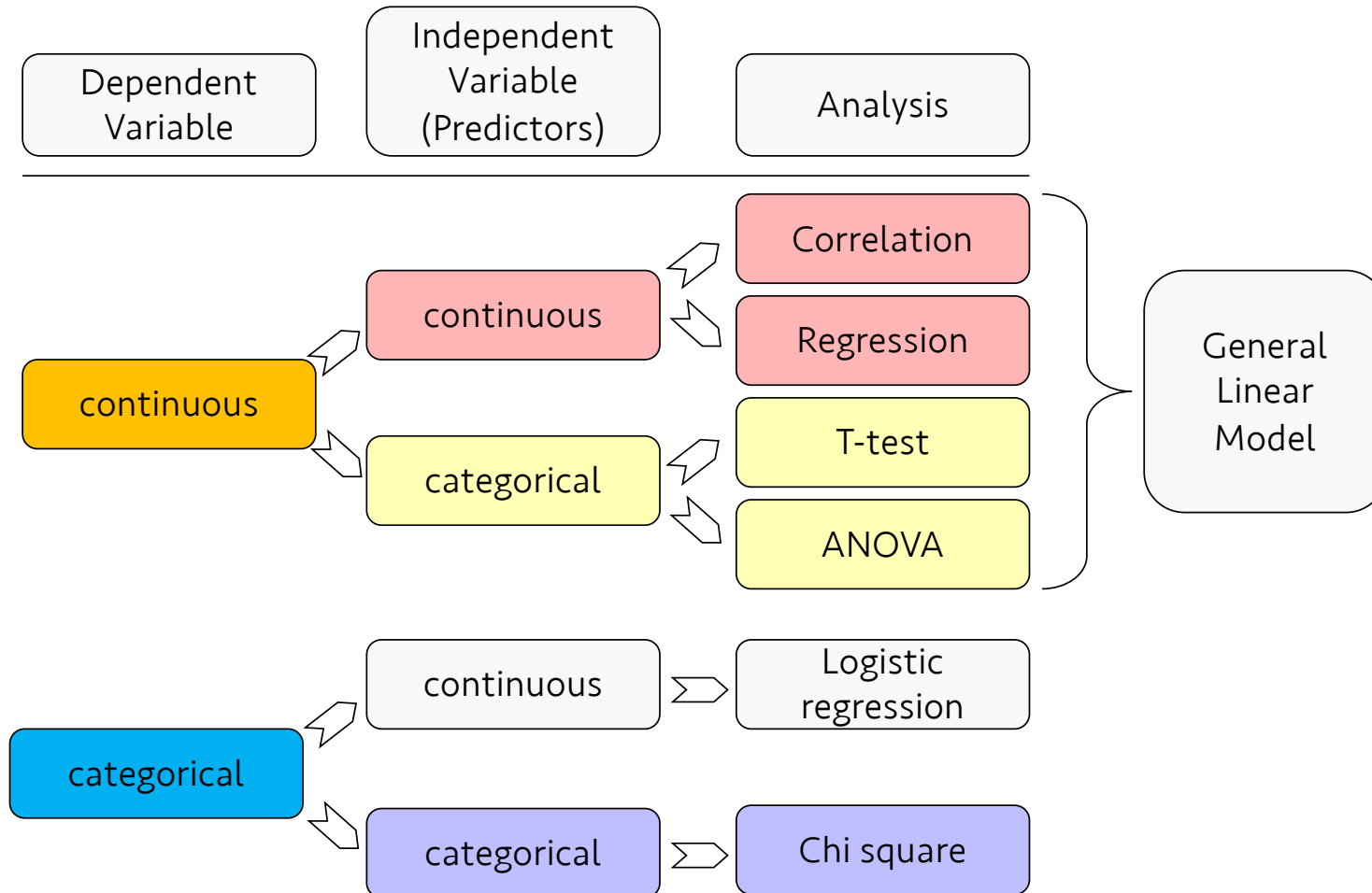
BINOMIAL LOGISTIC REGRESSION. Binomial logistic regression — jamovi
datablabcc 9:01

MULTINOMIAL LOGISTIC REGRESSION. Multinomial logistic regression — jamovi
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<https://www.youtube.com/playlist?list=PLXCuLG6zw7mKEkaaVzzoUWjQdCGjhksmP>

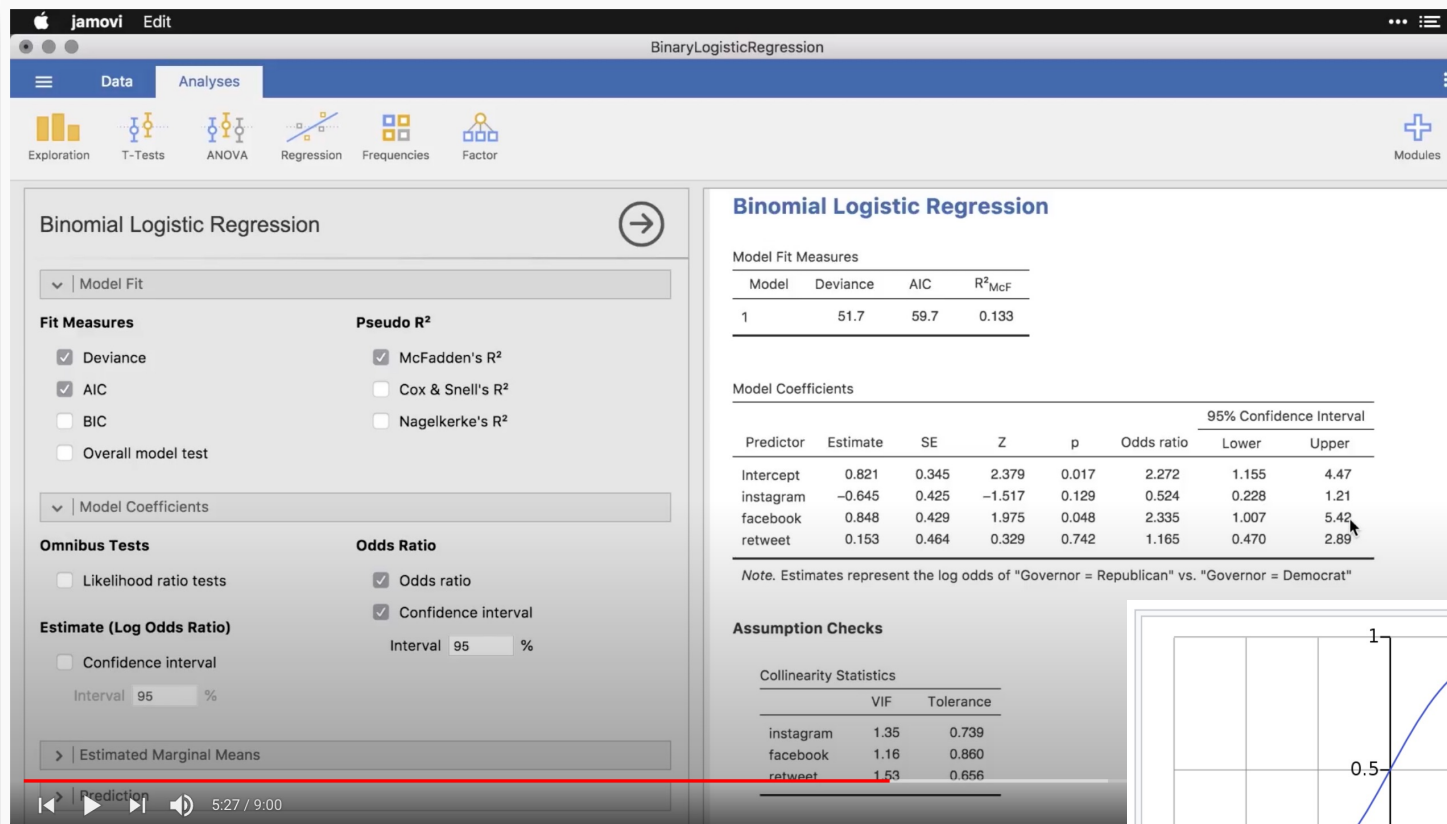
Analysis methods for modeling relationships



Slide from Tor Wager

CHOONG-WAN WOO | COCOAN lab | <http://cocoanlab.github.io>

Odds ratio in the logistic regression context



$$\text{Odds of A} = \frac{P(A)}{P(\neg A)}$$

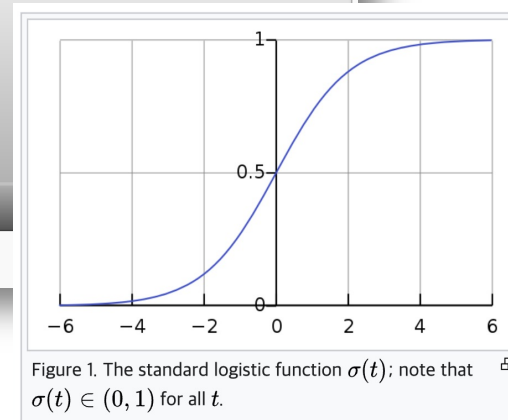
$$\text{Odds of Republican} = \frac{P(\text{Republican})}{P(\neg \text{Republican})}$$

$$\text{Estimate} = \log(\text{odds})$$

$$\sigma(t) = \frac{e^t}{e^t + 1} = \frac{1}{1 + e^{-t}}$$

$$t = \beta_0 + \beta_1 x$$

$$p(x) = \sigma(t) = \frac{1}{1 + e^{-(\beta_0 + \beta_1 x)}}$$



Binomial logistic regression – jamovi