

## Ch. 17 MLE (cont.)

### Interpret<sup>n</sup>: (cont.)

Effects depend on  $\chi$ .

Typically calculate

- └ effect at avg. value of  $\chi$
- └ avg. of effects across all values of  $\chi$

## Matching

e.g.

$$D_i = \begin{cases} 1 & \text{treated} \\ 0 & \text{untreated / control} \end{cases}$$

college educ.  
no college educ.

e.g.

$y_i(1)$  : potential outcome of  $i$  w/ treatment      pot. wage  
with coll. educ.

$y_i(0)$  : "      w/o "      pot. wage  
w/o coll. educ.

Treatment effect  $\Delta_i = y_i(1) - y_i(0)$

for obs.  $i$

→ never observed

Average treatment effect

$$\Delta^{ATE} = E[y(1) - y(0)]$$