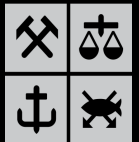


ADDING MORE COVARIATES TO OUR MODEL

IMPROVING OUR MODEL FURTHER

- Intercept model: $height_i = \beta_0$
- Age model: $height_i = \beta_0 + \beta_{age} Age_i$
- Age and male $height_i = \beta_0 + \beta_{age} age_i + \beta_{male} male_i$

$$male_i = \begin{cases} 1, & \text{child is male} \\ 0, & \text{Otherwise} \end{cases}$$



$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male} \underbrace{male_i}_{\begin{cases} 1, \text{child } i \text{ is male} \\ 0, \text{otherwise} \end{cases}}$$

$$male_i = 1$$

$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male}$$

$$male_i = 0$$

$$height_i = \beta_0 + \beta_{age} age_i$$

$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male} \underbrace{male_i}_{\begin{cases} 1, \text{child } i \text{ is male} \\ 0, \text{otherwise} \end{cases}}$$

$$male_i = 1$$

$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male}$$

$$male_i = 0$$

$$height_i = \beta_0 + \beta_{age} age_i$$

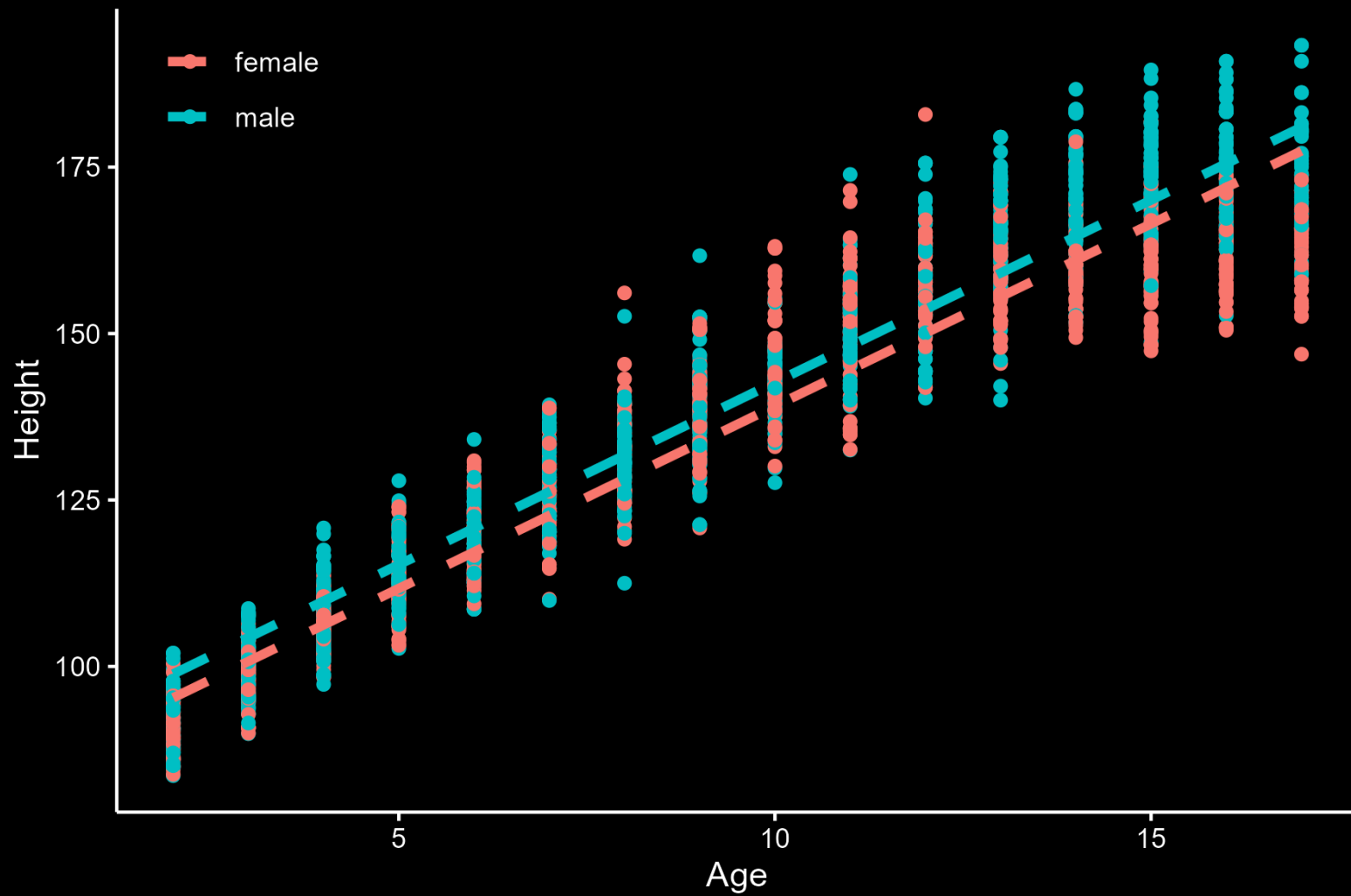
$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male} \underbrace{male_i}_{\begin{cases} 1, \text{child } i \text{ is male} \\ 0, \text{otherwise} \end{cases}}$$

$$male_i = 1$$

$$height_i = \beta_0 + \beta_{age} age_i + \beta_{male}$$

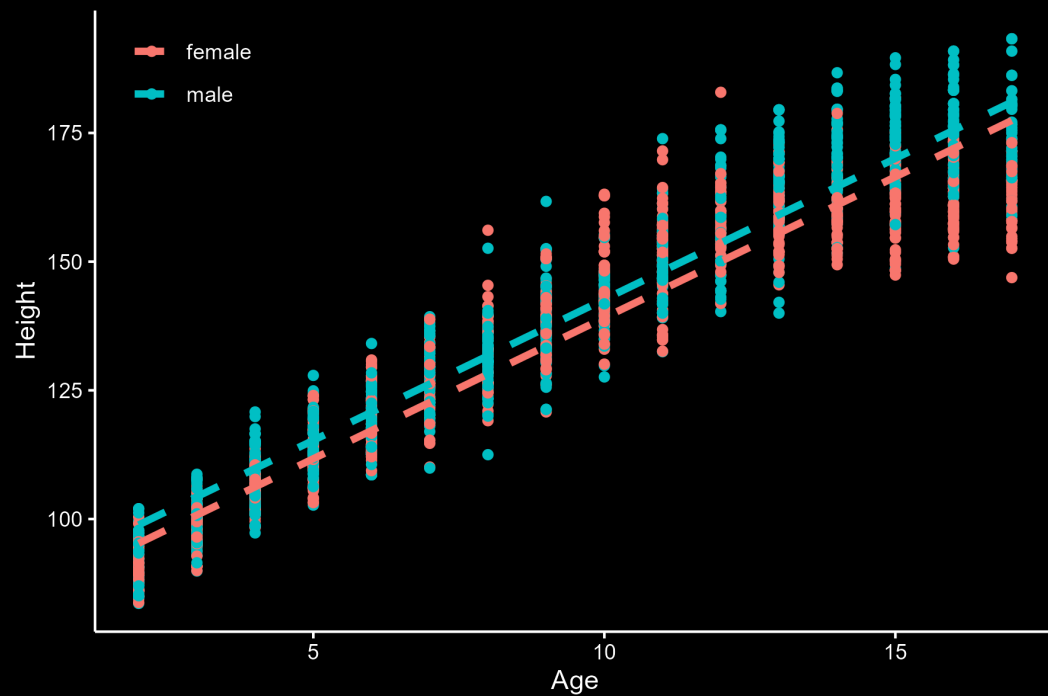
$$male_i = 0$$

$$height_i = \beta_0 + \beta_{age} age_i$$



NHH
TECH3



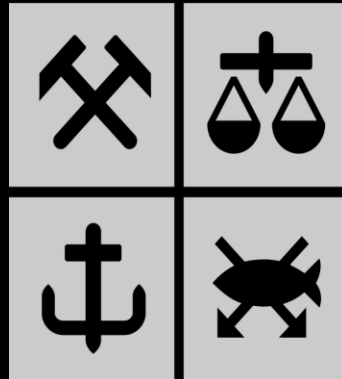


	coef	std err	t	P> t
Intercept	83.8128	0.393	213.151	0.000
Gender[T.Male]	3.1271	0.322	9.724	0.000
AgeInYearsAtScreening	5.5006	0.035	156.091	0.000

NHH
TECH3



NHH TECH3



Sondre Hølleland
Geir Drage Berentsen