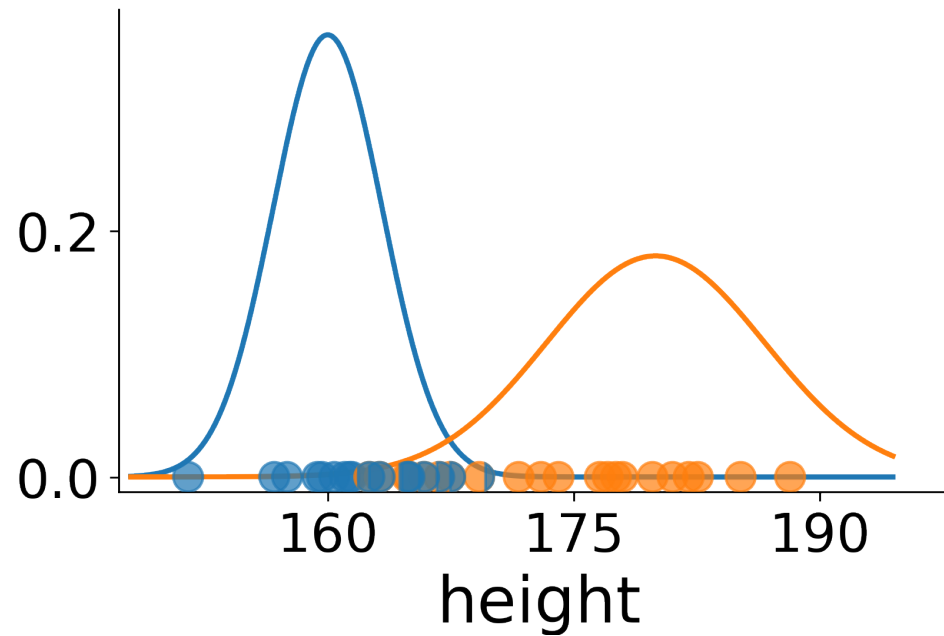


Expectation Maximization



How to estimate parameter θ ?

If sources t are known, easy:

$$\mu_1 = \frac{\sum_i p(t_i = 1 \mid x_i, \theta) x_i}{\sum_i p(t_i = 1 \mid x_i, \theta)} \quad \sigma_1^2 = \frac{\sum_i p(t_i = 1 \mid x_i, \theta) (x_i - \mu_1)^2}{\sum_i p(t_i = 1 \mid x_i, \theta)}$$