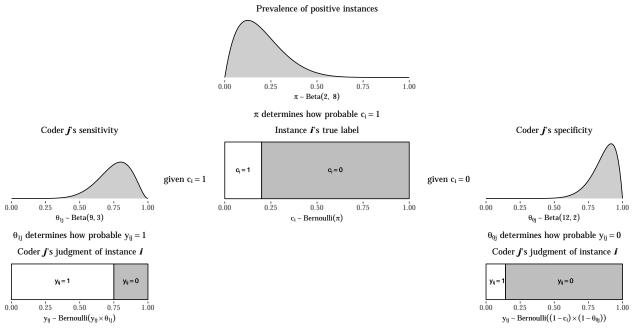
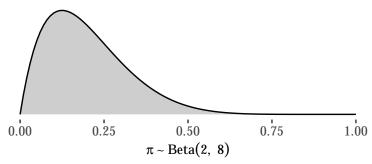
## Data-generating process assumed by the Beta-Binomial by Annotator model

true

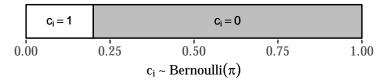


## Prevalence of positive instances

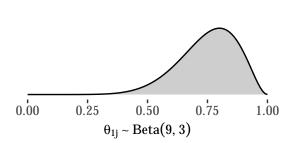


 $\pi$  determines how probable  $c_i = 1$ 

## Instance i's true label

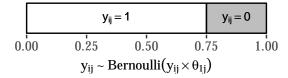


given  $c_i = 1$ Coder **j**'s sensitivity

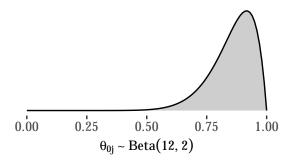


 $\theta_{1j}$  determines how probable  $y_{ij} = 1$ 

Coder  $\boldsymbol{j}$ 's judgment of instance  $\boldsymbol{i}$ 



given  $c_i = 0$ Coder **j**'s specificity



 $\theta_{0j}$  determines how probable  $y_{ij} = 0$ 

Coder j's judgment of instance i