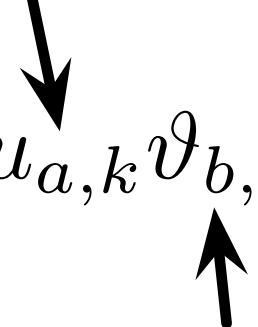


Multi-dimensional

**ideal point** of

legislator a

$$p(v_{a,b} = \text{Yea}) = \Phi \left( x_b \sum_{k=1}^K u_{a,k} \vartheta_{b,k} + y_b \right)$$


**Topic proportion** of

bill b estimated

from its text