

$$\begin{aligned}\hat{p}(\text{dub} \mid \text{my friends}) = & \lambda_3 \hat{p}_{\text{MLE}}(\text{dub} \mid \text{my friends}) \\ & + \lambda_2 \hat{p}_{\text{MLE}}(\text{dub} \mid \text{friends}) \\ & + \lambda_1 \hat{p}_{\text{MLE}}(\text{dub}) \\ & + \lambda_0 \frac{1}{|\Sigma|}\end{aligned}$$