From Bayes to Log-Linear Model

Och (2002) discusses some problems of Equation 3:

Models estimated unreliably ⇒ maybe LM more important:

$$\hat{e}_1^{\hat{I}} = \operatorname{argmax} p(f_1^J|e_1^I) oldsymbol{(p(e_1^I))}^{oldsymbol{2}}$$

• In practice, "direct" translation model equally good:

$$\hat{e}_1^{\hat{I}} = \operatorname{argmax} p(e_1^I|oldsymbol{f_1}^J)p(e_1^I)$$

Complicated to *correctly* introduce other dependencies.
⇒ Use log-linear model instead.

(6)

(7)