What Went Wrong?

$$\hat{e}_{1}^{\hat{I}} = \operatorname*{argmax}_{I,e_{1}^{I}} p(f_{1}^{J}|e_{1}^{I}) p(e_{1}^{I}) = \operatorname*{argmax}_{I,e_{1}^{I}} \prod_{(\hat{f},\hat{e}) \in \mathsf{phrase pairs of } f_{1}^{J},e_{1}^{I}} p(\hat{f}|\hat{e}) p(e_{1}^{I}) \quad \text{(12)}$$

- Too strong phrase-independence assumption.
 - Phrases do depend on each other.
 Here "nemám" and "žádného" jointly express one negation.
 - Word alignments ignored that dependence.
 But adding it would increase data sparseness.
- Language model is a separate unit.
 - ullet $p(e_1^I)$ models the target sentence independently of f_1^J .