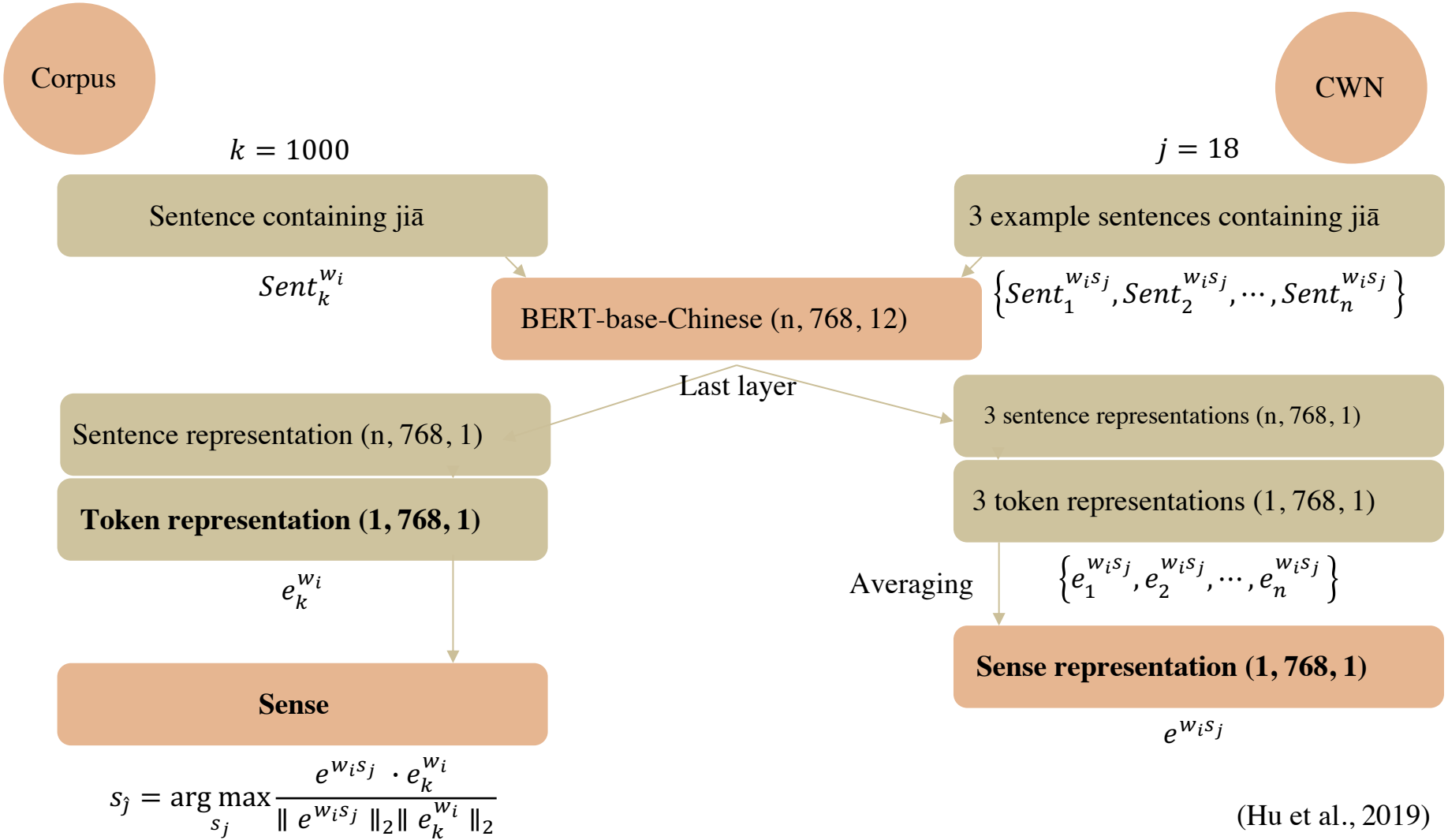
Corpus
CWN
$k = 1000$
$j = 18$
Sentence containing jiā
3 example sentences containing jiā
$Sent_k^{w_i}$
$\{Sent_1^{w_i s_j}, Sent_2^{w_i s_j}, \cdots, Sent_n^{w_i s_j}\}$
BERT-base-Chinese (n, 768, 12)
Last layer
Sentence representation (n, 768, 1)
3 sentence representations (n, 768, 1)
Token representation (1, 768, 1)
3 token representations (1, 768, 1)
$e_k^{w_i}$
Averaging
$\{e_1^{w_i s_j}, e_2^{w_i s_j}, \cdots, e_n^{w_i s_j}\}$
Sense
Sense representation (1, 768, 1)
$e^{w_i s_j}$
$s_{\hat{j}} = \arg\max_{s_j} \frac{e^{w_i s_j} \cdot e_k^{w_i}}{\| e^{w_i s_j} \|_2 \| e_k^{w_i} \|_2}$
(Hu et al., 2019)