\mathcal{V}_b H_{θ} **Predicted** Vocabulary Hypernetwork **Embeddings** HLM_{θ} E_{ϕ_a} (__the) E_{ϕ_b} (__the) <pad> <pad> __the $\mathsf{HLM}_{ heta}$ E_{ϕ_a} (_flower) E_{ϕ_a} (bed) E_{ϕ_a} (s) E_{ϕ_b} (_flowerbeds) _flowerbeds HLM_{θ} E_{ϕ_a} (mong) E_{ϕ_a} (_a) E_{ϕ_b} (__among) <pad> _among HLM_{θ} E_{ϕ_a} (...) E_{ϕ_a} (...) E_{ϕ_a} (...) E_{ϕ_b} (...) Token n

(i) decompose with original tokenizer T_a

Tokenization

Function

(ii) embed with original embeddings E_{ϕ_a}

compose into new embeddings