

# CUNI System for the WMT19 Robustness Task

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## The Robustness Task

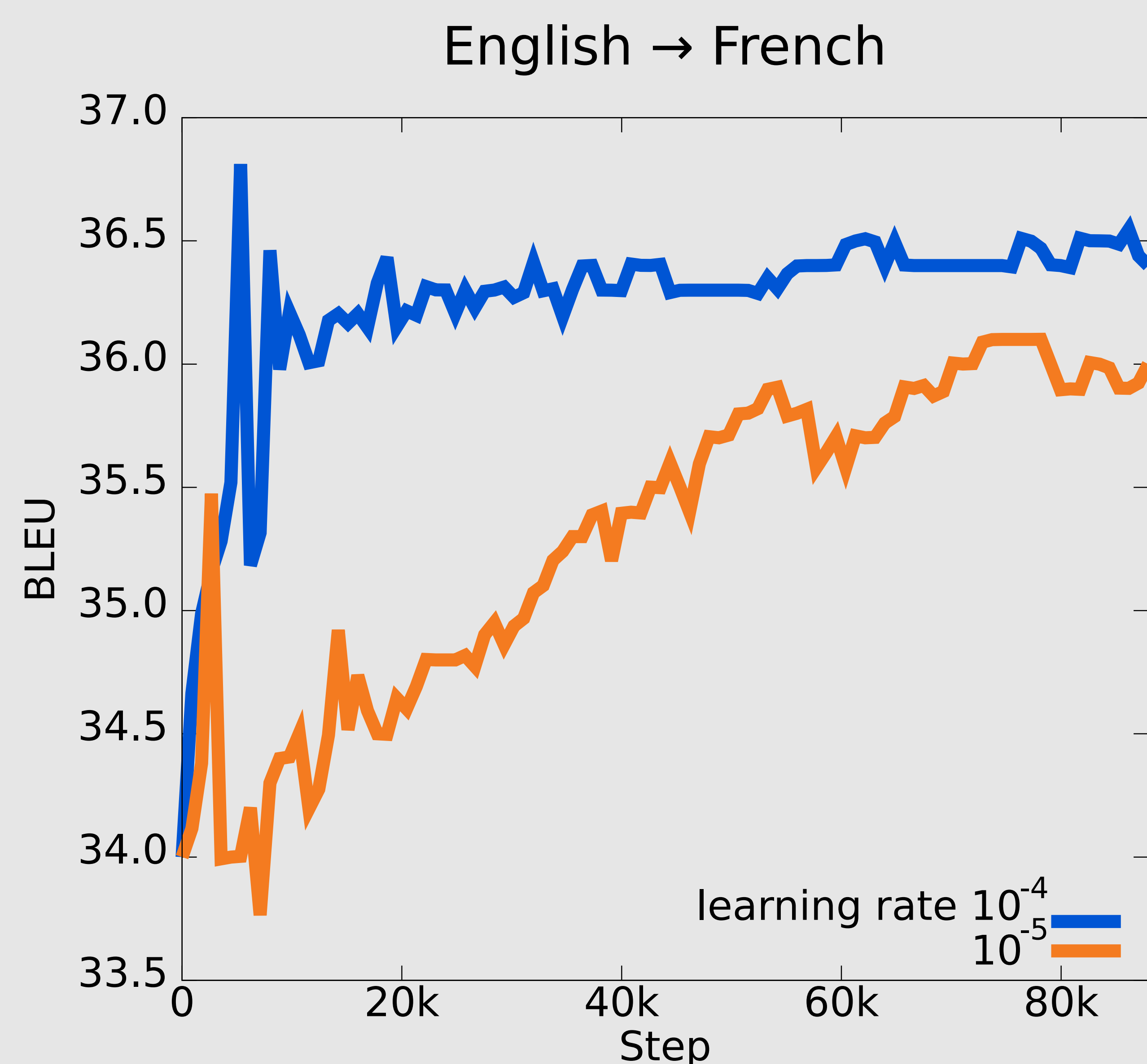
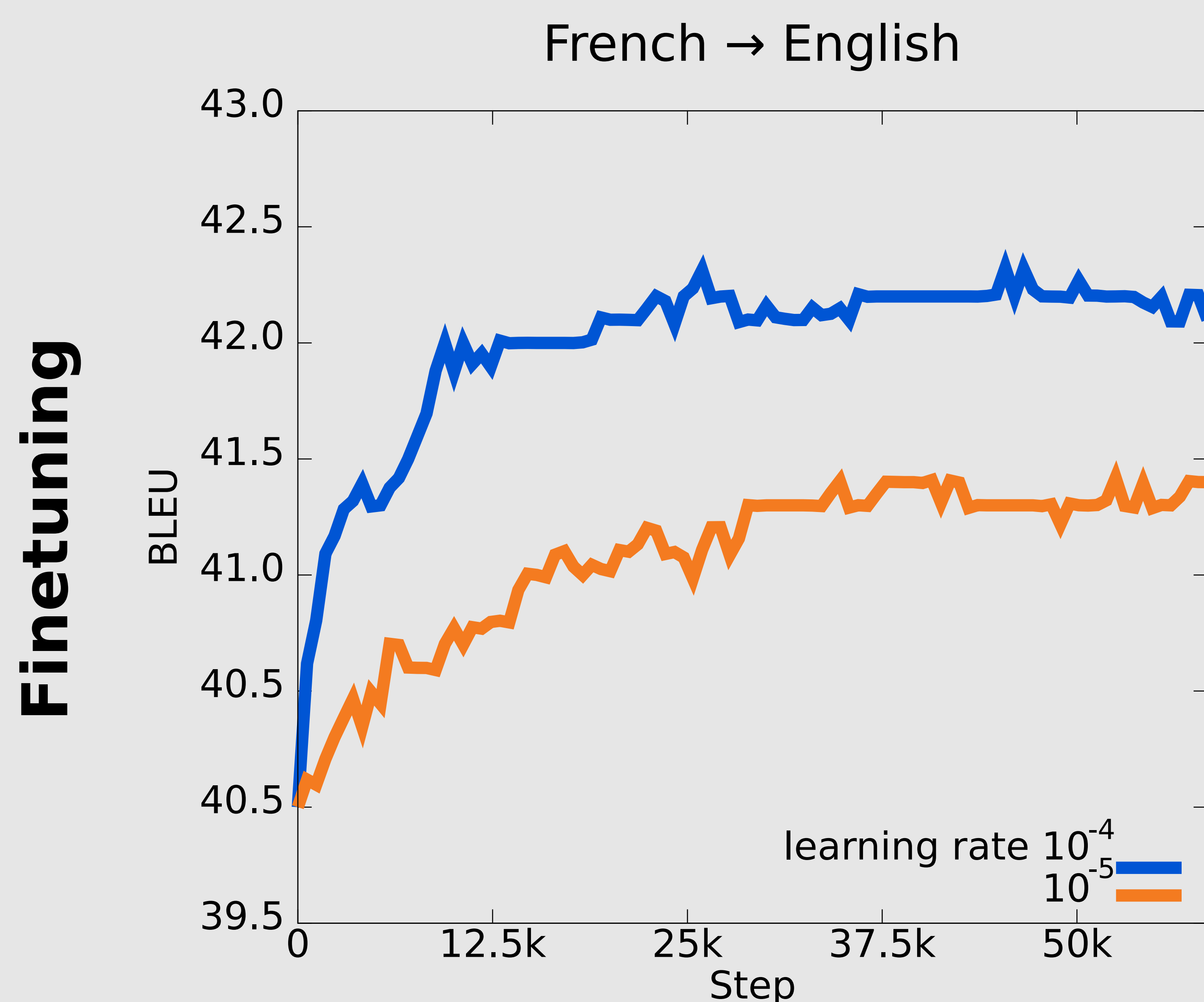
- Based on MTNT dataset: translated Reddit posts
- Informal language, smileys, typos
- Only 36k sentence pairs for training

en: Added a small AIC 🤔🤔🤔 Sounds perfect 😊  
 fr: J'ai ajouté un petit AIC 🤔🤔🤔 Ça sonne bien 😊

en: \\\\\\\\_(ツ)\\\\\\  
 fr: \\\\\\\\_(ツ)\\\\\\

## Our Method

- Transformer BIG model, with large batch size of 16.8k subwords
- All WMT15 parallel data + French WMT15 News Crawl monolingual
- Three iterations of back-translation
- Finetuning on MTNT data with SGD and small learning rate



## Results BLEU scores for English ↔ French Translation

	French → English				English → French			
	WMT14	WMT15	MTNT	blind	WMT14	WMT15	MTNT	blind
MTNT baseline	28.9	30.8	23.3	25.6	33.5	33.0	21.8	22.1
+ finetuning	—	—	30.3	—	—	—	29.7	—
CUNI Transformer	42.9	39.6	39.9	42.6	43.6	41.6	34.0	37.0
+ finetuning	41.5	40.9	42.1	44.8	43.5	41.6	36.6	38.5

	en-fr	fr-en
Naver Labs Europe	41.4	47.9
<b>ours</b>	<b>38.5</b>	<b>44.8</b>
Baidu & Oregon State Uni.	36.4	43.6
Johns Hopkins Uni.	38.5	40.2
Fraunhofer FOKUS-VISCOM	24.2	29.9
MTNT Baseline	22.1	25.6