A Full Results

The full results from our experiments are given in Table 4. In the main text, we present the average scores for the 4-6 STS tasks in each year. Here, we provide the results for all tasks. For a particular year, the tasks preceding it in the same section (i.e., not separated by a horizontal line) are in the same year. For example, the tasks for STS'12 are MSRpar, MSRvid, SMT-eur, OnWN, and SMT-news. Tasks in different years with the same name are not related (e.g., 'headlines' in STS'13 and STS'14).

	Wieting et al.(2017b)			Wieting et al. (2016b)			Arora et al. (2017)		Our Approach		
Supervision	Weakly Supervised			Unsupervised			Weakly Supervised		Unsupervised		
Tasks	LSTM AVG	AVG	GRAN	PP-XXL	tfidf-GloVe	skip-thought	GloVe+WR	PSL+WR	GloVe+UP	PSL+UP	Czeng+UP
MSRpar	49.0	45.9	47.7	44.8	50.3	16.8	35.6	43.3	51.4	55.2	58.3
MSRvid	84.3	85.1	85.2	79.6	77.9	41.7	83.8	84.1	86.4	85.4	90.1
SMT-eur	51.2	47.5	49.3	49.5	54.7	35.2	49.9	44.8	54.9	51.3	54.7
OnWN	71.5	71.2	71.5	70.4	64.7	29.7	66.2	71.8	72.7	74.3	74.2
SMT-news	68.0	58.2	58.7	63.3	45.7	30.8	45.6	53.6	59.3	62.8	64.1
STS'12	64.8	61.6	62.5	61.5	58.7	30.8	56.2	59.5	64.9	65.8	68.3
headlines	77.3	76.9	76.1	73.9	69.2	34.6	69.2	74.1	74.8	77.7	81.2
OnWN	81.2	72.8	81.4	73.8	72.9	10.0	82.8	82.0	85.5	85.4	87.5
FNWN	53.2	50.2	55.6	47.7	36.6	30.4	39.4	52.4	55.0	56.9	53.6
SMT	40.7	38.0	40.3	40.4	29.6	24.3	37.9	38.5	39.1	41.0	42.0
STS'13	63.1	59.4	63.4	58.9	52.1	24.8	56.6	61.8	63.6	65.2	66.1
deft forum	56.6	55.6	55.7	53.4	37.5	12.9	41.2	51.4	52.3	55.0	58.5
deft news	78.0	78.5	77.1	74.4	68.7	23.5	69.4	72.6	74.6	74.5	78.4
headlines	74.5	75.1	72.8	71.5	63.7	37.8	64.7	70.1	69.7	73.3	78.7
images	84.7	85.6	85.8	80.4	72.5	51.2	82.6	84.8	84.3	84.9	87.1
OnWN	84.9	81.4	85.1	81.5	75.2	23.3	82.8	84.5	86.9	87.6	88.9
tweet news	76.3	78.7	78.7	77.4	65.1	39.9	70.1	77.5	78.5	80.0	78.8
STS'14	75.8	75.8	75.9	73.1	63.8	31.4	68.5	73.5	74.4	75.9	78.4
answers-forum	71.8	70.6	73.1	69.1	45.6	36.1	63.9	70.1	72.4	72.2	72.0
answers-student	71.1	75.8	72.9	78.0	63.9	33.0	70.4	75.9	72.7	75.1	73.5
belief	75.3	76.8	78.0	78.2	75.3	24.6	71.8	75.3	76.5	77.3	79.1
headline	79.5	80.3	78.6	76.4	70.9	43.6	70.7	75.9	75.9	78.8	83.1
images	85.8	86.0	85.8	83.4	72.9	17.7	81.5	84.1	83.0	84.6	87.5
STS'15	76.7	77.9	77.7	77.0	60.6	31.0	71.7	76.3	76.1	77.6	79.0
SICK14	71.3	72.4	72.9	72.7	69.4	49.8	72.2	72.9	73.0	72.3	73.5

Table 4: Results (Pearson's $r \times 100$) on textual similarity tasks. The highest score in each row is in bold. "GloVe+UP" is the application of uSIF-weighting (U) and piecewise common component removal (P) to GloVe word vectors; "PSL+UP" to PSL word vectors; "ParaNMT+UP" to ParaNMT word vectors.