**Notes on SCL (Structural Correspondence Learning)**

**Blitzer, McDonald & Pereira**

***Domain Adaptation with Structural Correspondence Learning***

Use case: Part-of-speech tagging

No labeling in target data.

Source: Wall Street Journal

Target: Medline

Pivot features: features (words in this case) which occur frequently in the two domains and behave similarly in both (in this case are similar POS)

From Singular Value Decomposition W = UDVT, “Pivot Predictors” are row from the top portion U matrix

Augment the original feature vector with features obtained by mapping with the Pivot Predictors, then apply predictive model on the augmented vector.

Hyperparameters:

25 rows for Pivot Predictors matrix, and taking only positive entries, and rescaled to have L1 norm 5 times higher than regular features

58 feature types