

# Haw-Shiuan Chang

NLP Machine Learning

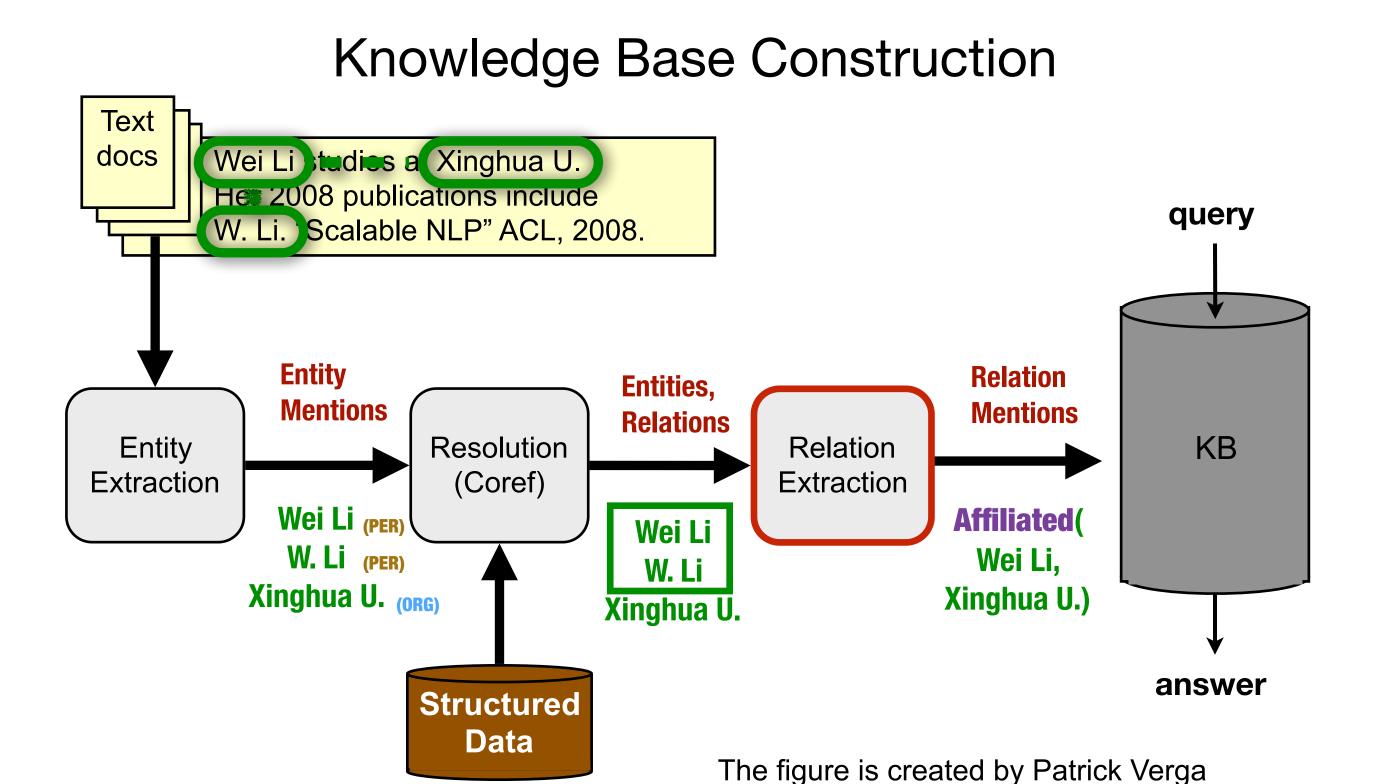
MS/PhD UMass CS, 2015-?

Seeking: Internship Summer 2017

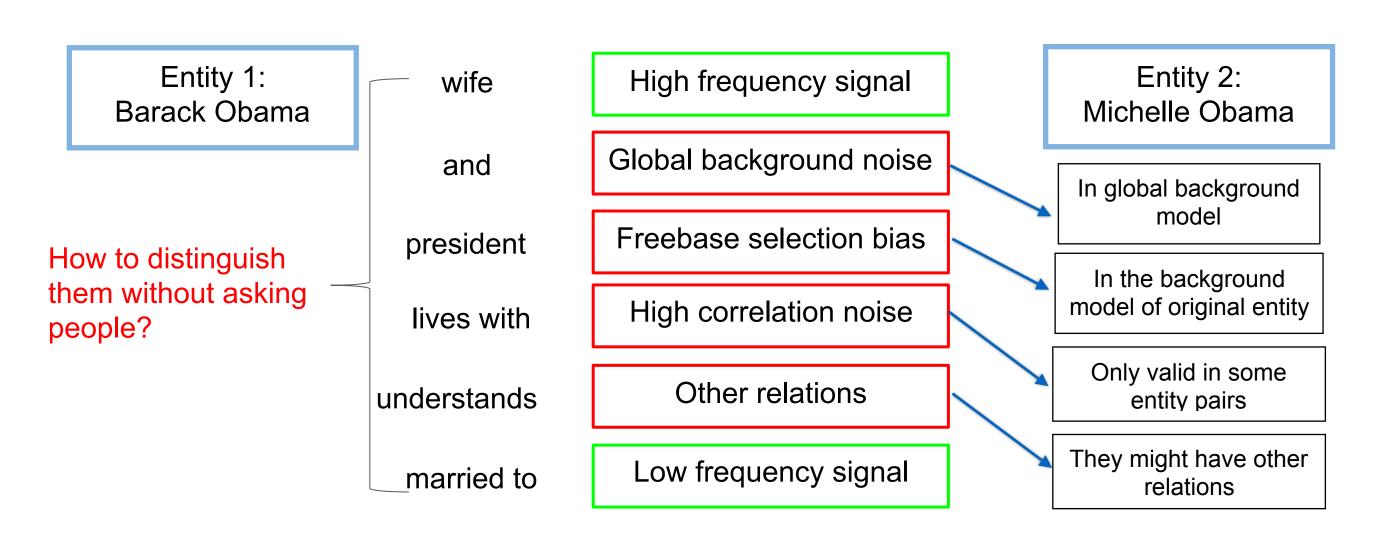
Currently work on NLP and Information extraction in IESL Three years research experience on computer vision and active learning

# Asking Google: Construct Knowledge Base from Cleaner Relation Patterns

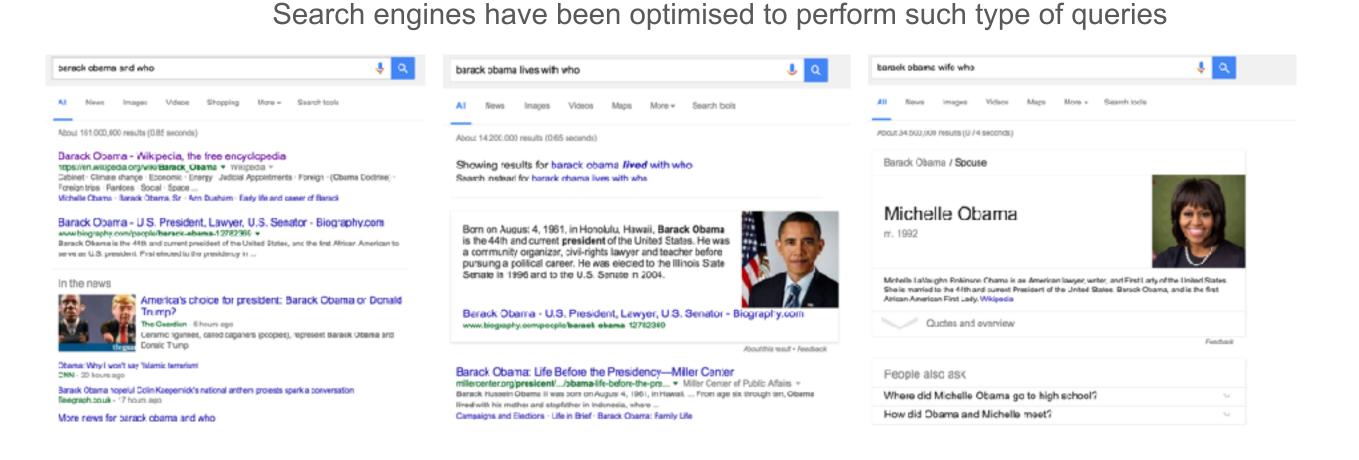
#### Problem

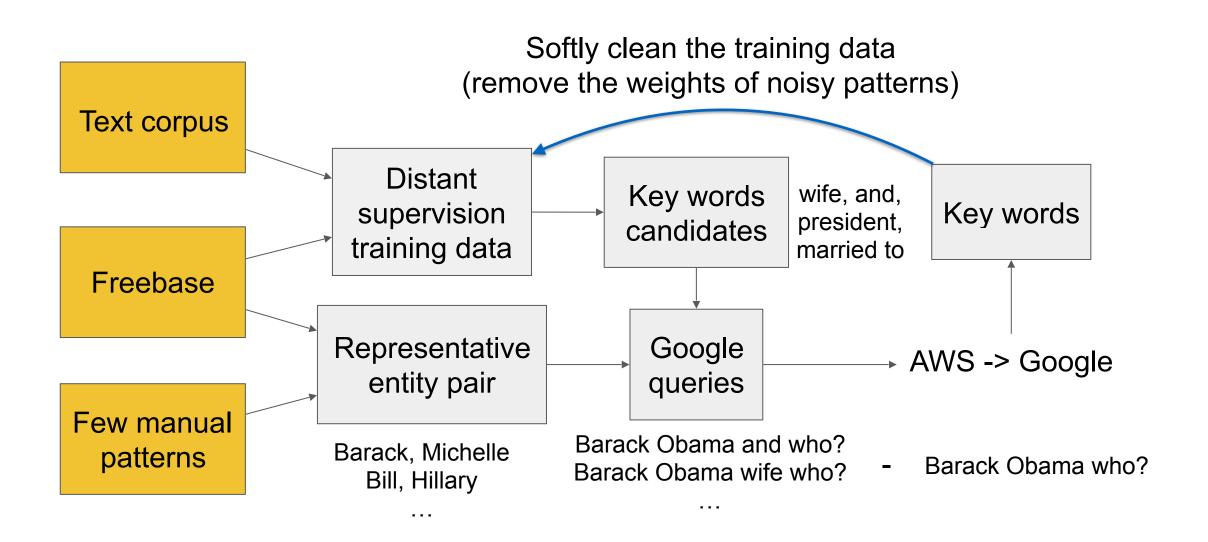


#### Noisy Relation Patterns from Distant Supervision

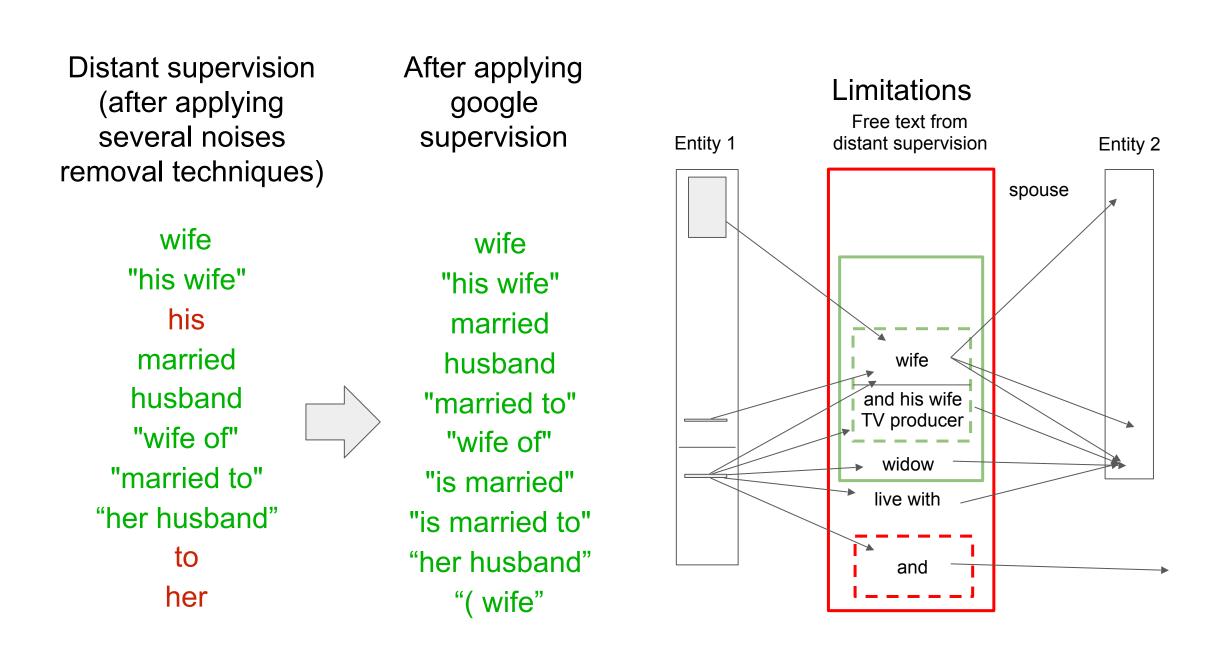


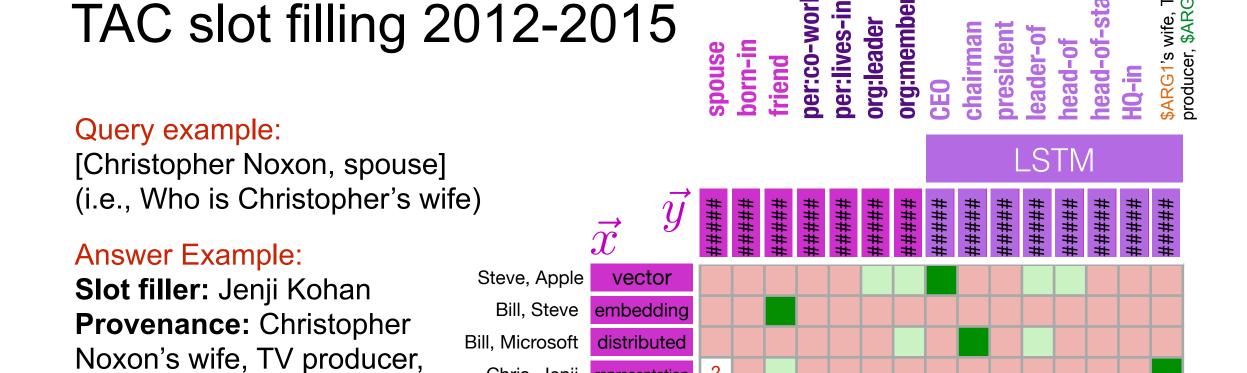
#### Solution





### Results





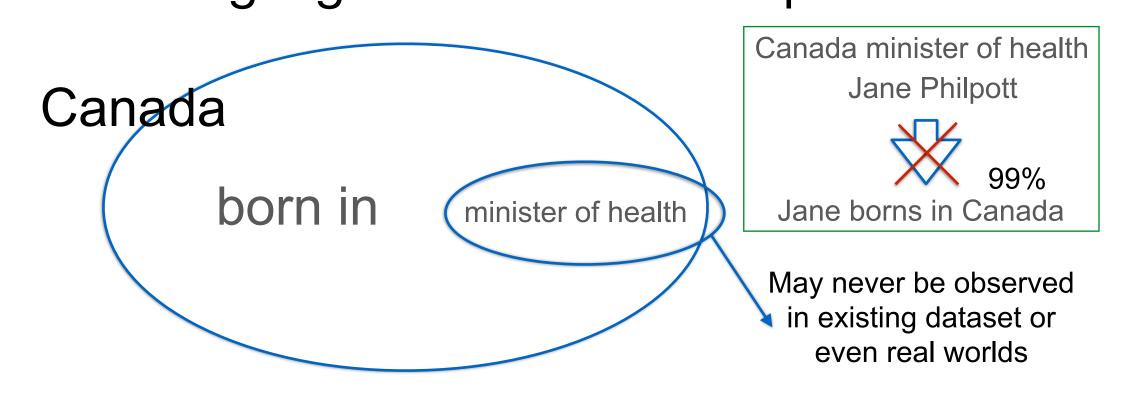
Jenji Kohan

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Mode	Training data	High recall			High precision		
		F1	Precision	Recall	F1	Precision	Recall
USchen	Distant supervision (DS)	0.243	0.504	0.160	0.215	0.537	0.135
	DS+google	0.261	0.506	0.176	0.214	0.525	0.134
LSTM	Distant supervision (DS)	0.331	0.400	0.282	0.293	0.431	0.222
	DS+google	0.337	0.430	0.277	0.311	0.455	0.236

#### Future

#### Solving high correlation false positives



If Jane actually born in USA, but spend most of her time in USA. USA and Jane would be an ideal entity pair for google, because the relation between them is very simple.

## Seeking

Internship related to knowledge graph, active learning, NLP, Information retrieval, machine learning, crowdsourcing, etc