Yuhao Du

yuhaodu@buffalo.edu

716-207-0658

Research Interest

Computational Social Science, Nature Education	ral Language Processing, Machine Learning, Media Analysis,	Algorithmic Fairness
University at Buffalo	Ph.D. in Computer Science and Engineering Dean's Fellowship Advised by Dr. Kenneth Joseph	Sept. 2016 – Current
Massachusetts Institute of Technology	Visiting Graduate Student	Summer 2019
	At Summer Institute of Computational Social Science	
Xi'an Jiaotong University	B.S. degree in Information and Computing Science	Sept. 2012 - June 2016
Technical Skills		
• Skills: Machine learning; Deep models	learning; Natural Language Processing; Computer Vision; Pr	obabilistic Graphical
• Packages: PyTorch; TensorFlo	w; Keras; spaCy; NLTK; OpenCV; scikit-learn	
Research Projects		
Gender Bias in Corporations		Fall 2020 - Current
employees are promoted through of each employee.	alate a simplified workplace where two things happen: employ the ranks of the company; Implemented influence of gender of	on perceived promotability
	space, a 2 % bias can pile up and have drastic influence on ge	
	of Bodybuilding and Pro-Anorexic Content on Twitter	
	elled by domain expert, collected tweets related to bodybuilding	ng, pro-ana and
fitspiration.		
•	tweets of different topics using Bidirectional Encoder Repre-	esentations from
Transformers (BERT).		
-	ration is more similar to tweets related to pro-ana than bodyb	
Bias in Word Embeddings		Fall 2019 – Spring 2020
-	ality Retention to flatten the non-linear manifold structure in on by incorporating information from the word vectors that are ction from word embeddings.	.
· ·	eased from 0.925 to 0.53. Bias in downstream bias test is decr	reased from 14.42 to 13.6.
Understanding Visual Memes on Twitter		Fall 2018 – Fall 2019
0	udy on the themes contained in the text of image-with-text (I	WT) memes.
•	rk to extract the visual features of user shared images.	,
**	embedding for the text extracted by Optical Character Reco	ognition from images as
the textual features of the images		- -
e	ual feature vectors into a multi-layer perceptron to classify	IWT memes: The accuracy
of the classifier is 78%.		
	es in our sample which have identifiable theme are politically	relevant
Publications		
	nd Kenneth Joseph. "Understanding visual memes: an empiric	al analysis of text
	on Twitter." In <i>The Fourteenth International Conference on W</i>	-
	" MDR Cluster-Debias: A Nonlinear Word Embedding Debia	asing Pipeline." In
· · · · ·	al Computing, Behavioral-Cultural Modeling, Prediction and	• •
Professional Service	· · · · · · · · · · · · · · · · · · ·	

Professional Service

- Conference Reviewer EMNLP 2019, ICWSM 2020, AAAI 2020
- Conference Program Committee WebSci 2020

https://yuhaodu.github.io/

4445 Chestnut Ridge Road, Amherst, NY