Mark Yatskar

Research Statement

I am interested in the intersection of language and vision. My work has focused on exploring how structured representations of language can improve visual recognition. Broadly, I have introduced methods and resources for language generation, visual recognition, common sense extraction, object synthesis, and fairness in machine learning.

EDUCATION

University of Washington
Doctor of Philosophy, Computer Science, Aug 2017
Advisor: Luke Zettlemoyer, Ali Farhadi

University of Washington
Masters of Science, Computer Science, June 2013
Advisor: Luke Zettlemoyer

Cornell University
Bachelor of Science, Computer Science, June 2010
Minors in Electrical Engineering and Dance.
Advisor: Lillian Lee

Publications

QuAC: Question Answering in Context
Eunsol Choi, He He, Mohit Iyyer, Mark Yatskar Wen-tau Yih, Yejin Choi, Percy Liang,
Luke Zettlemoyer
EMNLP, 2018

Gender Bias in Coreference Resolution: Evaluation and Debiasing Methods
Jieyu Zhao, Tianlu Wang, Mark Yatskar, Vicente Ordez, Kai-Wei Chang
NAACL, 2018

Neural Motifs: Scene Graph Parsing with Global Context.
Rowan Zellers, Mark Yatskar, Sam Thomson, Yejin Choi
CVPR, 2018

Men Also Like Shopping: Reducing Gender Bias Amplification using Corpus-level Constraints
Jieyu Zhao, Tianlu Wang, Mark Yatskar, Vicente Ordonez, Kai-Wei Chang
EMNLP, 2017 **(Best Paper Award)**

Commonly Uncommon: Semantic Sparsity in Situation Recognition.
Mark Yatskar, Vicente Ordonez, Luke Zettlemoyer, Ali Farhadi
CVPR, 2017

Neural AMR: Sequence-to-Sequence Models for Parsing and Generation.
Ioannis Konstas, Mark Yatskar, Srinivasan Iyer, Yejin Choi and Luke Zettlemoyer
ACL, 2017

Situation Recognition: Visual Semantic Role Labeling for Image Understanding.
Mark Yatskar, Ali Farhadi, Luke Zettlemoyer
CVPR, 2016.

Stating the Obvious: Extracting Visual Common Sense Knowledge.
Mark Yatskar, Vicente Ordonez, Ali Farhadi.
NAACL, 2016

See No Evil, Say No Evil: Description Generation from Densely Labeled Images.
Mark Yatskar, Michel Galley, Lucy Venderwende, Luke Zettlemoyer
STAR-SEM, 2014.

Learning to Relate Literal and Sentimental Descriptions of Visual Properties.
Mark Yatskar, Svitlana Volkova, Asli Celikyilmaz, Bill Dolan, Luke S Zettlemoyer
NAACL, 2013.

For the sake of simplicity: Unsupervised extraction of lexical simplifications from Wikipedia.
Mark Yatskar, Bo Pang, Cristian Danescu-Niculescu-Mizil, Lillian Lee
NAACL, 2012.

Selected Press

New York Times: Computer Vision: On the Way to Seeing More, 2016
https://www.nytimes.com/interactive/2016/09/20/science/computer-vision-imsitu.html

Wired: Machines Taught By Photos Learn a Sexist View of Women, 2017
https://www.wired.com/story/machines-taught-by-photos-learn-a-sexist-view-of-women/

Work Experience

Young Investigator Award (Post doc)	The Allen Institute for AI (AI2) Seattle, WA	Sep 2017 - Now
Research Intern	The Allen Institute for AI (AI2) Seattle, WA	Summer 2015, 2016
Research Intern	Microsoft Research Redmond (MSR) Redmond, WA	Summer 2012, 2013
Research Intern	SAP Palo Alto, CA	Summer, 2010
Chief Technical Officer	CourseTopia, Inc. Ithaca, NY	2008-2010
Research Intern	Disney Imagineering Burbank, CA	Summer, 2006

Awards

NSF Fellowship Finalist 2011, NVIDIA Research Grant 2015, AI2 Young Investigator Award 2017, EMNLP Best Paper Award 2017

Service

Generalization in the Age of Deep Learning, NAACL 2018.
Panel on Ethics in NLP, NAACL 2018.
AC: NAACL19, PC: ACL14-18, EMNLP12;16-18, CVPR16-18, ECCV16-18, AAAI14, IJCAI17, EACL17, IJCNLP12, TPAMI17-18

Invited Talks

November 2018, Naver, Seoul
October 2018, Oregon State University
June 2018, CVPR, Salt Lake City
April 2018, Information Science Institute
April 2018, University of California Los Angeles