LISA FAN

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EDUCATION

Northeastern University   *September 2017 - Present*
PhD student in Natural Language Processing
Advisor: Prof. Lu Wang
Khoury College of Computer and Information Science

Tufts University   *September 2012 - May 2017*
BS/MS in Computer Science
GPA: 3.87, Summa Cum Laude, Dean's List
Member of Phi Beta Kappa

RESEARCH

Sep 2018 - Present | **Measuring Media Bias in News Articles**
- Working with Prof. Lu Wang
- Quantifying and automatically detecting media bias in news articles
- Creating a benchmark dataset of news articles annotated with lexical and informational bias

Sep 2017 - Sep 2018 | **Summarization Generation**
- Worked with Prof. Lu Wang
- Investigated neural abstract summarization generation using multi-task learning with semantic parsing
- Published in NeurIPS Workshop on Interpretability and Robustness in Audio, Speech, and Language (IRASL), 2018

Sep 2016 - May 2017 | **Emotional Intelligence in Robots**
- Worked with Prof. Matthias Scheutz and The MITRE Corporation
- Investigated human perception of emotional intelligence in robots vs. humans
- Investigated importance of verbal and nonverbal communication methods for human observational judgments
- Published in International Conference on Intelligent Virtual Agents 2017, nominated for Best Paper

Jan - May 2017 | **Image Generation using GANs**
- Worked with Jason Krone, Sam Woolf
- Final project for Deep Learning for Computer Vision course
- Built a generative adversarial network to produce photo-realistic images from hand drawn sketches

PUBLICATIONS

- Lisa Fan, Dong Yu, and Lu Wang. Robust Neural Abstractive Summarization Systems and Evaluation against Adversarial Information. In *NeurIPS Workshop on Interpretability and Robustness in Audio, Speech, and Language (IRASL)*, 2018.

PUBLICATIONS CONT.

- Lisa Fan, Matthias Scheutz, Monika Lohani, Marissa McCoy, and Charlene Stokes. Do We Need Emotionally Intelligent Artificial Agents? First Results of Human Perceptions of Emotional Intelligence in Humans Compared to Robots. In *Proceedings of the Seventeenth International Conference on Intelligent Virtual Agents*, 2017.

TEACHING EXPERIENCE

Jan - Dec 2016 | **Natural Language Processing**
- Tufts University (Spring, Fall 2016)
- Holding review sessions and guiding students on assignments in office hours
- Grading assignments and exams

Jun - Dec 2015 | **Introduction to Computer Science**
- Tufts University (Summer, Fall 2015)
- Holding review sessions and guiding students on assignments in office hours
- Grading assignments and exams

INDUSTRY EXPERIENCE

Jun - Aug 2016 | **Software Engineer at Ditto Labs**
- Created infrastructure utilizing Amazon Mechanical Turk to crowdsource training data for image classifiers
- Improved dataset creation by using natural language processing on tweets to find relevant images
- Used Ruby on Rails, MySQL, Amazon Web Services, WordNet

Jun - Aug 2014 | **Software Engineer at The MITRE Corporation**
- Created desktop & mobile client to display situational awareness data for Air Force operators
- Used GlassFish, Java, JavaScript, jQuery, REST, Twitter Bootstrap

RELEVANT COURSE WORK

Natural Language Processing

Artificial Intelligence

Statistical Pattern Recognition

Advanced Algorithms

Linear Algebra

Deep Learning for Computer Vision

Intro to Machine Learning

Human Robot Interaction

Experimental Methods in CS

RELEVANT SKILLS

Computer Languages   Python, C/C++, Javascript
Software & Tools   Tensorflow, LaTeX, Linux, HTML
Certifications   CITI trained in Social & Behavioral Research
Languages   English, Japanese