Natural Language Processing Ph.D. Student

LOGAN LEBANOFF

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Education

UNIVERSITY OF CENTRAL FLORIDA – Orlando, FL

- Ph.D. in Computer Science. Advisor: Dr. Fei Liu, UCF NLP Group — Fall 2017 - present
  Research interests: Deep Learning for NLP. Abstractive Summarization and Natural Language Generation.
- B.S., Computer Science. GPA: 3.99/4.0 — Fall 2013 - Spring 2016

Current Research

SENTENCE FUSION IN NEURAL ABSTRACTIVE SUMMARIZATION

Current abstractive summarization models are improving quickly. They often perform well at taking important sentences from the document and compressing each sentence. However, they still struggle with fusing multiple sentences together in a coherent manner, and they often generate incorrect facts. I am working on methods to improve sentence fusion in summarization.

Publications

Lebanoff, L., Muchovej J., Dernoncourt, F., Kim, D., Kim, S., Chang, W., & Liu, F. (**EMNLP 2019**). Analyzing Sentence Fusion in Abstractive Summarization. In *Summarization Workshop of Empirical Methods in Natural Language Processing*, Hong Kong.

Cho, S., **Lebanoff, L.**, Foroosh, H., & Liu, F. (**ACL 2019**). Improving the Similarity Measure of Determinantal Point Processes for Extractive Multi-Document Summarization. In Proceedings of the *Association for Computational Linguistics*, Florence, Italy.

Lebanoff, L., Song, K., Dernoncourt, F., Kim, D., Kim, S., Chang, W., & Liu, F. (**ACL 2019**). Scoring Sentence Singletons and Pairs for Abstractive Summarization. In Proceedings of the *Association for Computational Linguistics*, Florence, Italy.

Lebanoff, L., Song, K., & Liu, F. (**EMNLP 2018**). Adapting the Neural Encoder-Decoder Framework from Single to Multi-Document Summarization. In *Empirical Methods in Natural Language Processing*, Brussels, Belgium, 2018.

Lebanoff, L., & Liu, F. (**EMNLP 2018**). Automatic Detection of Vague Words and Sentences in Privacy Policies. In Proceedings of the *2018 Conference on Empirical Methods in Natural Language Processing*, Brussels, Belgium, 2018.

Liao, K., **Lebanoff, L.**, & Liu, F. (**COLING 2018**). Abstract Meaning Representation for Multi-Document Summarization. In Proceedings of the *27th International Conference on Computational Linguistics*, Santa Fe, New Mexico, USA. (Area Chair Favorite)

Experience

RESEARCH INTERN – Adobe Research – San Jose, CA — Summer 2019

- Developed models for incorporating coreference resolution into summarizers. Will submit to future NLP conference.
- Contributed several models for summarization and semantic similarity to the Adobe Sensei internal platform.

UCF PROGRAMMING TEAM MEMBER – University of Central Florida – Orlando, FL — Fall 2015 – Spring 2016

- Competed in the 2015 ACM Southeast USA Regional Contest and placed in 15th out of > 100 teams in the SE region.
- Coded numerous algorithms relating to graphs (DFS, BFS), dynamic programming (Knapsack, Coin change), and more.

SOFTWARE DEVELOPER INTERN - Program Works Inc. – Orlando, FL — Fall 2013 – Spring 2015

- Created an export for third party integration with standard payroll systems that required overtime calculation, etc.
- Developed a service in C# for a client, Cable News Network (CNN), that synchronizes with their calendar system.

Technical Skills

Programming Languages: Python, Java, C#, JavaScript, C

NLP/ML Tools: TensorFlow, PyTorch, Keras, Stanford CoreNLP, NLTK, SpaCy

Services & Awards

Conference Reviewer: IJCNLP 2017, EMNLP 2017, AAAI 2018, AAAI 2020

Awards: University of Central Florida Presidential Doctoral Fellowship, COLING 2018 Area Chair Favorite