

## Education

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### UNIVERSITY OF CENTRAL FLORIDA – Orlando, FL

- Ph.D. Student, Computer Science. GPA: 3.95/4.0 *Expected: May 2021*  
Advisor: Dr. Fei Liu, UCF Natural Language Processing Group
- B.S., Computer Science. GPA: 3.99/4.0 May 2016

## Current Research

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### IMPROVING CORRECTNESS OF NEURAL ABSTRACTIVE SUMMARIZATION

Current abstractive summarization models are producing high scores according to automatic metrics; however, they often generate incorrect facts. To alleviate this problem, we train a ranking model to choose sentences from the source text the same way that humans do. The selected sentences are concisely merged using a neural abstractive model to form a summary. The abstractive model encodes words in a way that semantic information is shared between coreferent mentions of the same entity. The coreference information informs the model of the correct entities to be replaced or merged.

## Publications

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

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

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

## Experience

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### GRADUATE RESEARCH ASSISTANT – UCF Natural Language Processing Group – Orlando, FL Jan 2017 – present

- Study/discuss recent papers in deep learning, automatic summarization, NLP, and machine learning.
- Explore extractive and abstractive summarization techniques using deep neural models and classical NLP techniques.

### UCF PROGRAMMING TEAM MEMBER – University of Central Florida – Orlando, FL Aug 2015 – Apr 2016

- Solved various programming problems using algorithm-based solutions in Java.
- 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 Nov 2013 – May 2015

- Improved an ASP.Net C# web application which is part of WorkSchedule.Net, an employee scheduling system.
- 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

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

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

## Services & Awards

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

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