

## RESEARCH INTERESTS

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- **Natural Language Processing**

Graph4NLP, Summarization, Text mining

## EDUCATION

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**University of California, Davis (continued)**

Ph.D. in Computer Science

Advisor: Dr. Jiawei Zhang

Davis

2021–present

**Florida State University**

Ph.D. in Computer Science

Advisor: Dr. Jiawei Zhang

Tallahassee

2019–2021

**Georgia Institute of Technology**

M.S. in Computational Science

M.S. in Electrical and Computer Engineering

Atlanta

2016–2018

**University of Illinois, Urbana and Champaign**

B.E. in Electrical Engineering

Urbana

2014–2016

## EXPERIENCE

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**Megagon Research Lab**

**Incoming Research Intern** (Mentors: Dr. Hayete Iso, Dr. Nikita Bhutani)

Will work on option summarization and complete one research paper.

Mountain View, CA

Summer 2023

**Tencent AI Lab**

**Research Intern** (Mentors: Dr. Sangwoo Cho, Dr. Kaiqiang Song)

Worked on graph-based unsupervised multi-document summarization, proposed a holistic framework that balances summary salience and diversity, and completed one research paper.

Seattle, WA

Summer 2022

**Salesforce Research**

**Research Intern** (Mentors: Dr. Semih Yavuz, Dr. Yingbo Zhou)

Worked on addressing entity-level abstractive summarization hallucination by controlling entity coverage, domain transfer for abstractive summarization with intermediate data and completed one research paper.

Remote

Summer 2021

**Kidswant Company**

**Data Mining Research Intern** (Mentors: Dr. Hang Liu)

Worked on extracting lifecycle rules for different classes of products and improved the recommendation system; Developed tool with Django and Pycharts for dynamic data visualization.

Nanjing

Summer 2018

## PUBLICATIONS

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- [1] **Zhang, Haopeng**, X. Liu, and J. Zhang, “Diffusum: Generation enhanced extractive summarization with diffusion”, under review, 2022.
- [2] **Zhang, Haopeng**, S. Cho, K. Song, X. Wang, J. Zhang, and Y. Dong, “Unsupervised multi-document summarization with holistic inference”, under review, 2022.
- [3] **Zhang, Haopeng**, X. Liu, and J. Zhang, “Scientific document summarization via contrastive hierarchical graph neural network”, under review, 2022.
- [4] **Zhang, Haopeng**, X. Liu, and J. Zhang, “Hegel: Hypergraph transformer for long document summarization”, *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2022.
- [5] **Zhang, Haopeng**, S. Yavuz, W. Kryściński, K. Hashimoto, and Y. Zhou, “Improving the faithfulness of abstractive summarization via entity coverage control”, *Finding of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, pp. 528–535, 2022.
- [6] **Zhang, Haopeng** and J. Zhang, “Centrality meets centroid: A graph-based approach for unsupervised document summarization”, *arXiv preprint arXiv:2103.15327*, 2021.
- [7] **Zhang, Haopeng** and J. Zhang, “Text graph transformer for document classification”, *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pp. 8322–8327, 2020.
- [8] J. Zhang, **Zhang, Haopeng**, L. Sun, and C. Xia, “Graph-bert: Only attention is needed for learning graph representations”, *arXiv preprint arXiv:2001.05140*, 2020.

## SCHOLARSHIPS AND AWARDS

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|---|------|
| • FSU Travel Award                                      | 2020 |
| • Adelaide D. Wilson Graduate Fellowship Endowment Fund | 2019 |
| • Russell E. Berthold Scholarship                       | 2015 |

## TEACHING

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|---|----------------------|
| • <b>Teaching Assistant</b> at Florida State University<br><i>Theory and Structure of Databases (COP4710)</i>                         | Fall 2019, Fall 2020 |
| • <b>Teaching Assistant</b> at Florida State University<br><i>Complexity and Analysis of Data Structures and Algorithms (COP4531)</i> | Spring 2020          |

## SKILLS

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- **Programming:** Python, JAVA, Latex
- **Deep Learning Platform:** Pytorch, DGL, Huggingface