

## RESEARCH INTERESTS

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- **Natural Language Processing**

Summarization, Text mining

- **Graph Mining**

Graph neural network, Heterogeneous graph representation

## 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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**Tencent AI Lab**

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

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

Seattle

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 Pyecharts for dynamic data visualization.

Nanjing

Summer 2018

**Accessibility Solutions and Research Center**

**E-text MathML Production Assistant**

Developed E-text materials in MathML team.

Atlanta

Fall 2016

## PUBLICATIONS

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- [1] **Zhang, Haopeng**, S. Cho, K. Song, X. Wang, J. Zhang, and Y. Dong, “Importance versus diversity: A graph-based unsupervised method for multi-document summarization”, *under review*, 2022.
- [2] **Zhang, Haopeng**, X. Liu, and J. Zhang, “Scientific document summarization via contrastive hierarchical graph neural network”, *under review*, 2022.
- [3] **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.
- [4] **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.
- [5] **Zhang, Haopeng** and J. Zhang, “Centrality meets centroid: A graph-based approach for unsupervised document summarization”, *arXiv preprint arXiv:2103.15327*, 2021.
- [6] **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.
- [7] 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