

EDUCATION

Georgia Institute of Technology

Atlanta, USA

PhD in Computer Science

Aug. 2019 – Present

- Advisor: Diyi Yang, Mark Riedl
- GPA: 3.72/4.00

Zhejiang University

Hangzhou, China

B.Eng. in Computer Science and Technology

Sep. 2015 – Jul. 2019

- GPA: 3.86/4.00
- Minor in [Advanced Honor Class of Engineering Education, Chu Konchen Honors College](#) (40/6,000)

Research Interest

- Learning with structures for efficient NLP systems
- Building social/linguistic/commonsense aware NLP systems

INTERNSHIP

Amazon

Santa Clara, USA

Applied Scientist Intern @ AWS

June 2022 – Jan 2023

- Mentor: Aston Zhang, Alex Smola
- Research Topic: Parameter Efficient Finetuning, Diffusion Language Model

Allen Institute for AI

Seattle, USA

Research Intern @ Mosaic Team

June 2021 – Sep. 2021

- Mentor: Keisuke Sakaguchi, Chandra Bhagavatula, and Yejin Choi
- Research Topic: Compositional Augmentation for Commonsense Question Answering

Microsoft Research

Seattle, USA

Researcher @ Microsoft Dynamics 365 AI

Dec. 2020 – May 2021

- Mentor: Dinghan Shen, and Weizhu Chen
- Research Topic: Data Augmentation, Efficient Finetuning

PUBLICATIONS

1. “Parameter-Efficient Fine-Tuning Design Spaces”,
Jiaao Chen, Aston Zhang, Xingjian Shi, Mu Li, Alix Smola, and Diyi Yang
11th International Conference on Learning Representations. ICLR 2023
2. “An Empirical Survey of Data Augmentation for Limited Data Learning in NLP”,
Jiaao Chen*, Derek Tam*, Colin Raffel, Mohit Bansal, and Diyi Yang
Transactions of the Association for Computational Linguistics. ACL
3. “When FLUE Meets FLANG: Benchmarks and Large Pretrained Language Model for Financial Domain”,
Raj Sanjay Shah, Kunal Chawla, Dheeraj Eidnani, Agam Shah, Wendi Du, Sudheer Chava, Natraj Raman, Charese Smiley, **Jiaao Chen**, and Diyi Yang
The 2022 Conference on Empirical Methods on Natural Language Processing. EMNLP 2022
4. “E-VALUE: Understanding Dialect Disparity in NLU”,
Caleb Ziems*, **Jiaao Chen***, Camille Harris, Jessica Anderson, and Diyi Yang
The 60th Annual Meeting of the Association for Computational Linguistics. ACL 2022
5. “Focus on the Action: Learning to Highlight and Summarize Jointly for Email To-Do Items Summarization”,
Kexun Zhang, **Jiaao Chen**, Diyi Yang,
The 60th Annual Meeting of the Association for Computational Linguistics. ACL 2022
6. “Leveraging Expert Guided Adversarial Augmentation For Improving Generalization in Named Entity Recognition”,
Aaron Reich, **Jiaao Chen**, Aastha Agrawal, Yanzhe Zhang, Diyi Yang,
The 60th Annual Meeting of the Association for Computational Linguistics (Findings). ACL 2022

7. “Simple Conversational Data Augmentation for Semi-supervised Abstractive Dialogue Summarization”,
Jiaao Chen, Diyi Yang,
The 2021 Conference on Empirical Methods on Natural Language Processing. EMNLP 2021
8. “HiddenCut: Simple Data Augmentation for Natural Language Understanding with Better Generalization”,
Jiaao Chen, Dinghan Shen, Weizhu Chen, and Diyi Yang,
The 59th Annual Meeting of the Association for Computational Linguistics. ACL 2021
9. “Structure-Aware Abstractive Conversation Summarization via Discourse and Action Graphs”,
Jiaao Chen, Diyi Yang,
2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics. NAACL 2021
10. “Continual Learning for Text Classification with Information Disentanglement Based Regularization”,
Yufan Huang, Yanzhe Zhang, **Jiaao Chen**, Xuezhi Wang and Diyi Yang,
2021 Annual Conference of the North American Chapter of the Association for Computational Linguistics. NAACL 2021
11. “Weakly-Supervised Hierarchical Models for Predicting Persuasive Strategies in Good-faith Textual Requests”,
Jiaao Chen, Diyi Yang,
The Thirty-Fifth AAAI Conference on Artificial Intelligence. AAAI 2020
12. “Multi-View Sequence-to-Sequence Models with Conversational Structure for Abstractive Dialogue Summarization”,
Jiaao Chen, Diyi Yang,
The 2020 Conference on Empirical Methods on Natural Language Processing. EMNLP 2020
13. “Local Additivity Based Data Augmentation for Semi-supervised NER”,
Jiaao Chen*, Zhenghui Wang*, Ran Tian, Zichao Yang and Diyi Yang,
The 2020 Conference on Empirical Methods on Natural Language Processing. EMNLP 2020
14. “Examining the Ordering of Rhetorical Strategies in Persuasive Requests”,
Omar Shaikh, **Jiaao Chen**, Jon Saad-Falcon, Polo Chau and Diyi Yang,
The 2020 Conference on Empirical Methods on Natural Language Processing (Findings). EMNLP 2020
15. “MixText: Linguistically-Informed Interpolation of Hidden Space for Semi-Supervised Text Classification”,
Jiaao Chen, Zichao Yang, Diyi Yang,
The 58th annual meeting of the Association for Computational Linguistics (ACL). ACL 2020
16. “Semi-supervised Models via Data Augmentation for Classifying Interactive Affective Responses”,
Jiaao Chen*, Yuwei Wu*, Diyi Yang,
AAAI Workshop on Affective Content Analysis, 2020
17. “Let’s Make Your Request More Persuasive: Modeling Persuasive Strategies via Semi Supervised Neural Nets on Crowdfunding Platforms”,
Diyi Yang*, **Jiaao Chen***, Zichao Yang, Dan Jurafsky, Eduard Hovy,
The 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics. NAACL 2019.
18. “Incorporating Structured Commonsense Knowledge in Story Completion”,
Jiaao Chen, Jianshu Chen, Zhou Yu,
The Thirty-Fourth AAAI Conference on Artificial Intelligence. AAAI 2019

TEACHING EXPERIENCE

School of Computer Science, Georgia Institute of Technology	Atlanta, USA
Teaching Assistant at NLP: CS-4650/7650 with Professor Diyi Yang	Jan. 2020 – May. 2020
Department of Computer Science, Zhejiang University	Hangzhou, China
Teaching Assistant at Computer Organization with Professor Qingsong Shi	Mar. 2018 – Jun. 2018

ADVISING

Master Students

- Aaron Reich (Master, 2021 Spring -)
- Aastha Agrawa (Master, 2021 Spring -)
- Yufan Huang (Master, 2020 Fall - 2021 Spring)
- Kunal Chawla (Master, 2020 Fall -)
- Nikhil Gupta (Master, 2020 Fall – 2021 Spring)

Undergraduate Students

- Kexun Zhang (Undergraduate, 2021 Spring -)
- Dheeraj Eidnani (Undergraduate, 2020 Fall -)
- Yanzhe Zhang (Undergraduate, 2020 Fall - 2021 Spring)

- Omar Shaikh (Undergraduate, 2019 Fall – 2020 Spring)
- Jon Saad-Falcon (Undergraduate, 2019 Fall - 2020 Spring)

SERVICE EXPERIENCE

Conference Reviewing Activities

- ACL 2021, 2022, 2023
- EMNLP 2020, 2021,2022
- NAACL 2021,
- WWW 2021,
- AAAI 2020, 2021
- ICLR 2022

Conference Volunteer

- ACL 2020

Georgia Tech NLP Seminar

- Organizer (2019 – 2021)

RECENT PRESENTATION & INVITED TALKS

- “Simple Conversational Data Augmentation for Semi-supervised Abstractive Dialogue Summarization”. Conference Talk at EMNLP 2021..
- “HiddenCut: Simple Data Augmentation for Natural Language Understanding with Better Generalization”. Conference Talk at ACL 2021..
- “Structure-Aware Abstractive Conversation Summarization via Discourse and Action Graphs”. Conference Talk at NAACL 2021.
- “Conversation Summarization with Multiple Dialogue Views”. Invited Talk at Google NLP, Nov. 13th, 2020.
- “Multi-View Sequence-to-Sequence Models with Conversational Structure for Abstractive Dialogue Summarization”. Conference Talk at EMNLP 2020.
- “Local Additivity Based Data Augmentation for Semi-supervised NER”. Conference Talk at EMNLP 2020.
- “MixText: Linguistically-Informed Interpolation of Hidden Space for Semi-Supervised Text Classification”. Conference Talk at ACL 2020.
- “Incorporating Structured Commonsense Knowledge in Story Completion”. Conference Talk at AAAI 2019.

SELECTED AWARDS AND HONORS

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| • Outstanding Undergraduate Thesis, Zhejiang University. | 2019 |
| • Honorable Mention at MCM/ICM Contest. | 2017 |
| • Academic Physics Contest at Zhejiang University, fourth place. | 2017 |
| • ACEE Honor Class at Chu Konchen Honors College, Zhejiang University (40/6,000). | 2016 |
| • Scholarship for Academic Achievement at Zhejiang University. | 2016 |
| • Scholarship for All-around Achievement at Zhejiang University. | 2016 |
| • ACM School Trial at Zhejiang University, third prize. | 2016 |

ADDITIONAL INFORMATION

Technology and Language Skills:

- Programming Languages: C/C++, Python, Verilog, Matlab, Labview, SQL, C#, Lex/Yacc.
- Development Skills: Pytorch, Tensorflow, OpenCV, QT.

Interests:

- Piano (Level 10 Certificate), Basketball.