

Yichen Jiang

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Education

University of North Carolina at Chapel Hill

PHD IN COMPUTER SCIENCE, ADVISED BY PROF. MOHIT BANSAL

Chapel Hill, NC

Aug. 2019 - Exp. May. 2024

University of North Carolina at Chapel Hill

M.S. IN COMPUTER SCIENCE, ADVISED BY PROF. MOHIT BANSAL

Chapel Hill, NC

Aug. 2018 - May. 2019

University of North Carolina at Chapel Hill

B.S. IN COMPUTER SCIENCE, OVERALL GPA: 3.86, MAJOR GPA: 3.95, GRADUATED WITH THE HIGHEST HONOR.

Chapel Hill, NC

Aug. 2014 - May. 2018

Publication

- 2022 **Mutual Exclusivity Training and Primitive Augmentation to Induce Compositionality** Yichen Jiang*, Xiang Zhou*, and Mohit Bansal, *EMNLP 2022* Abu Dhabi, UAE
- 2021 **Inducing Transformer's Compositional Generalization Ability via Auxiliary Sequence Prediction Tasks** Yichen Jiang and Mohit Bansal, *EMNLP 2021* Dominican Republic
- 2021 **Learning and Analyzing Generation Order for Undirected Sequence Models** Yichen Jiang and Mohit Bansal, *Findings of EMNLP 2021* Dominican Republic
- 2021 **Structural Biases for Improving Transformers on Translation into Morphologically Rich Languages** Paul Soulos, Sudha Rao, Caitlin Smith, Eric Rosen, Asli Celikyilmaz, R Thomas McCoy, Yichen Jiang, Coleman Haley, Roland Fernandez, Hamid Palangi, Jianfeng Gao, and Paul Smolensky, *LoResMT 2021* Remote
- 2021 **Enriching Transformers with Structured Tensor-Product Representations for Abstractive Summarization** Yichen Jiang, Asli Celikyilmaz, Paul Smolensky, Paul Soulos, Sudha Rao, Hamid Palangi, Roland Fernandez, Caitlin Smith, Mohit Bansal and Jianfeng Gao, *NAACL 2021* Remote
- 2020 **HoVer: A Dataset for Many-Hop Fact Extraction And Claim Verification** Yichen Jiang, Shikha Bordia, Zheng Zhong, Charles Dognin, Maneesh Singh and Mohit Bansal, *Findings of EMNLP 2020* Remote
- 2019 **Self-Assembling Modular Networks for Interpretable Multi-Hop Reasoning** Yichen Jiang and Mohit Bansal, *EMNLP 2019* Hong Kong, China
- 2019 **Avoiding Reasoning Shortcuts: Adversarial Evaluation, Training, and Model Development for Multi-Hop QA** Yichen Jiang and Mohit Bansal, *ACL 2019* Florence, Italy
- 2019 **Explore, Propose, and Assemble: An Interpretable Model for Multi-Hop Reading Comprehension** Yichen Jiang, Nitish Joshi, Yen-chun Chen and Mohit Bansal, *ACL 2019* Florence, Italy
- 2018 **Closed-book Training to Improve Summarization Encoder Memory** Yichen Jiang and Mohit Bansal, *EMNLP 2018* Brussels, Belgium

Honor

Graduation with the Highest Honor

DEPARTMENT OF COMPUTER SCIENCE, UNC

Chapel Hill, NC

May. 2018

- Complete an honor thesis "Augmenting Neural Encoder-Decoder Model for Natural Language Generation Tasks".
- Present the work in the department open day and UNC undergraduate research symposium.

Research Experience

UNC-NLP

RESEARCH ASSISTANT

Chapel Hill, NC

Aug. 2017 - PRESENT

- Built interpretable Neural Network models to tackle some of the most challenging language tasks like summarization and QA.
- Published several academic papers in NLP conferences including NAACL, ACL, and EMNLP.

Apple AIML

RESEARCH INTERN, ADVISED BY MARCO DEL VECCHIO, AND DR. ANDERS JOHANSEN

- Working on a research project to improve dialogue model.

Seattle, WA

May. 2023 - Sept. 2023

Amazon Alexa

RESEARCH INTERN, ADVISED BY DR. DI JIN, DR. MAHDI NAMAZIFAR, DR. YANG LIU, AND DR. DILEK HAKKANI-TUR

- Improving dialogue model's ability to use long-term memory.

Sunnyvale, CA

May. 2022 - Oct. 2022

Facebook AI Research

RESEARCH INTERN, ADVISED BY DR. BARLAS OGUZ, DR. SCOTT YIH, AND DR. YASHAR MEHDAD

- Analyzing QA datasets to improve the commonsense reasoning capabilities of models.

Menlo Park, CA (Remote)

May. 2021 - Oct. 2021

Microsoft Research AI

RESEARCH INTERN + CONTRACTOR, ADVISED BY DR. ASLI CELIKYILMAZ AND DR. PAUL SMOLENSKY

- Worked to improve and analyze TP-Transformer architecture on summarization tasks.
- Published the paper "Enriching Transformers with Structured Tensor-Product Representations for Abstractive Summarization" in NAACL 2021.

Redmond, WA (Remote)

May. 2020 - Nov. 2020

Verisk Analytics

RESEARCH INTERN, ADVISED BY DR. MANEESH SINGH

- Constructed a many-hop fact retrieval and fact verification dataset HoVer, published at EMNLP 2020.
- Worked on NLP-related data analysis research projects in Verisk AI, providing better NLP solutions to Verisk's customers.

Jersey City, NJ

May. 2019 - Aug. 2019

Emerging Technology Lab, School of Media and Journalism, UNC

SOFTWARE ENGINEER & AI APP DEVELOPER

- Developed a chatbot with IBM Watson, which could answer questions regarding news in North Carolina coastal area centered at Wilmington.

Chapel Hill, NC

Aug. 2017 - May. 2018

Other Activities

Department of Computer Science Open Day

VOLUNTEER / PRESENTER

- Volunteer at the Department Open day and demo my research project to high school students.

Chapel Hill, NC

Sep. 2018

Skills

PROGRAMMING

- Proficient with programming languages including Python, Javascript, Java, and C.
- Proficient with Deep Learning Deep Learning Libraries including Tensorflow and PyTorch.