

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. 2023

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

- | | | |
|------|--|--------------------|
| 2021 | Inducing Transformer's Compositional Generalization Ability via Auxiliary Sequence Prediction Tasks
Yichen Jiang and Mohit Bansal, <i>EMNLP 2021</i> | Dominican Republic |
| 2021 | Learning and Analyzing Generation Order for Undirected Sequence Models
Yichen Jiang and Mohit Bansal, <i>EMNLP 2021</i> | Dominican Republic |
| 2021 | Enriching Transformers with Structured Tensor-Product Representations for Abstractive Summarization
Yichen Jiang, Asli Celikyilmaz, Paul Smolensky, Paul Soules, Sudha Rao, Hamid Palangi, Roland Fernandez, Caitlin Smith, Mohit Bansal and Jianfeng Gao, <i>NAACL 2021</i> | 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, <i>EMNLP 2020</i> | Remote |
| 2019 | Self-Assembling Modular Networks for Interpretable Multi-Hop Reasoning
Yichen Jiang and Mohit Bansal, <i>EMNLP 2019</i> | Hong Kong, China |
| 2019 | Avoiding Reasoning Shortcuts: Adversarial Evaluation, Training, and Model Development for Multi-Hop QA
Yichen Jiang and Mohit Bansal, <i>ACL 2019</i> | 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, <i>ACL 2019</i> | Florence, Italy |
| 2018 | Closed-book Training to Improve Summarization Encoder Memory
Yichen Jiang and Mohit Bansal, <i>EMNLP 2018</i> | 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 ACL and EMNLP.

Facebook AI Research

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

Menlo Park, CA (Remote)

May. 2021 - Present

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

Microsoft Research AI

Redmond, WA (Remote)

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

May. 2020 - Nov. 2020

- 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.

Verisk Analytics

Jersey City, NJ

RESEARCH INTERN, ADVISED BY DR. MANEESH SINGH

May. 2019 - Aug. 2019

- 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.

Emerging Technology Lab, School of Media and Journalism, UNC

Chapel Hill, NC

SOFTWARE ENGINEER & AI APP DEVELOPER

Aug. 2017 - May. 2018

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

Other Activities

Department of Computer Science Open Day

Chapel Hill, NC

VOLUNTEER / PRESENTER

Sep. 2018

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

Skills

PROGRAMMING

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