# Yichen **Jiang**

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## Edu**cation**

**University of North Carolina at Chapel Hill**                                                              *Chapel Hill, NC*

PHD IN COMPUTER SCIENCE, ADVISED BY PROF. MOHIT BANSAL                                            *Aug. 2019 - Exp. May. 2023*

**University of North Carolina at Chapel Hill**                                                              *Chapel Hill, NC*

M.S. IN COMPUTER SCIENCE, ADVISED BY PROF. MOHIT BANSAL                                            *Aug. 2018 - May. 2019*

**University of North Carolina at Chapel Hill**                                                              *Chapel Hill, NC*

B.S. IN COMPUTER SCIENCE, OVERALL GPA: 3.86, MAJOR GPA: 3.95, GRADUATED WITH THE HIGHEST HONOR.      *Aug. 2014 - May. 2018*

## Pub**lication**

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|---|---|---|
| 2021 | **Inducing Transformer's Compositional Generalization Ability via Auxiliary Sequence Prediction Tasks**<br>Yichen Jiang and Mohit Bansal | *Dominican Republic* |
| 2021 | **Learning and Analyzing Generation Order for Undirected Sequence Models**<br>Yichen Jiang and Mohit Bansal | *Dominican Republic* |
| 2021 | **Enriching Transformers with Structured Tensor-Product Representations for Abstractive Summarization**<br>Yichen Jiang, Asli Celikyilmaz, Paul Smolensky, Paul Soulus, 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**<br>Yichen Jiang, Shikha Bordia, Zheng Zhong, Charles Dognin, Maneesh Singh and Mohit Bansal, *EMNLP 2020* | *Remote* |
| 2019 | **Self-Assembling Modular Networks for Interpretable Multi-Hop Reasoning**<br>Yichen Jiang and Mohit Bansal, *EMNLP 2019* | *Hong Kong, China* |
| 2019 | **Avoiding Reasoning Shortcuts: Adversarial Evaluation, Training, and Model Development for Multi-Hop QA**<br>Yichen Jiang and Mohit Bansal, *ACL 2019* | *Florence, Italy* |
| 2019 | **Explore, Propose, and Assemble: An Interpretable Model for Multi-Hop Reading Comprehension**<br>Yichen Jiang, Nitish Joshi, Yen-chun Chen and Mohit Bansal, *ACL 2019* | *Florence, Italy* |
| 2018 | **Closed-book Training to Improve Summarization Encoder Memory**<br>Yichen Jiang and Mohit Bansal, *EMNLP 2018* | *Brussels, Belgium* |

## Hon**or**

**Graduation with the Highest Honor**                                                                         *Chapel Hill, NC*

DEPARTMENT OF COMPUTER SCIENCE, UNC                                                                           *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.

## Res**earch Experience**

**UNC-NLP**                                                                                                   *Chapel Hill, NC*

RESEARCH ASSISTANT                                                                                            *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**                                                                                      *Menlo Park, CA (Remote)*

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