

Jialu Li

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EDUCATION	University of North Carolina, Chapel Hill , Chapel Hill, North Carolina 2nd year Ph.D., Computer Science, <i>Advisor: Professor Mohit Bansal</i>	
	Cornell University , Ithaca, New York M.Eng., Computer Science, December 2019	
	Shanghai JiaoTong University , Shanghai, China Major: B.S., Computer Science, June 2018 Minor: B.E., Finance, June 2018	
RESEARCH INTEREST	Multimodal NLP, Vision-and-Language Navigation	
PUBLICATION	NDH-Full: Learning and Evaluating Navigational Agents on Full-Length Dialogue <i>EMNLP, 2021</i> Hyoungun Kim, Jialu Li and Mohit Bansal	
	Improving Cross-Modal Alignment in Vision Language Navigation via Syntactic Information <i>NAACL, 2021 (short papers)</i> Jialu Li , Hao Tan and Mohit Bansal	
	Exploring the Role of Argument Structure in Online Debate Persuasion <i>EMNLP, 2020 (short papers)</i> Jialu Li , Esin Durmus and Claire Cardie	
PAPER UNDER REVIEW	Anonymous Submission on Vision-Language-Navigation <i>Under submission at CVPR 2022</i> Jialu Li , Hao Tan and Mohit Bansal	
	Anonymous Submission on Vision-Language-Navigation <i>Under submission at AAAI 2022</i> Jialu Li , Hao Tan and Mohit Bansal	
ACADEMIC RESEARCH	University of North Carolina – Chapel Hill <i>Advisor: Professor Mohit Bansal</i>	March 2021 - Nov 2021
	<ul style="list-style-type: none">• Analyzed the performance mismatch between different evaluation metrics on a dialogue based navigation task.• Analyzed the effect of using different reward for model trained with reinforcement learning, and showed that explicit reward towards the goal position is important for navigation success.• Proposed a new task setup that encourages instruction following in Vision-and-Dialogue navigation.	
	University of North Carolina – Chapel Hill <i>Advisor: Professor Mohit Bansal</i>	August 2020 - Feb 2021
	<ul style="list-style-type: none">• Utilized syntax information from dependency tree to enhance alignment between the instruction and the visual scenes in Vision-and-Language Navigation tasks.• Improved the non-syntax baseline on multiple Vision-and-Language navigation tasks.	

Cornell University

Advisor: Professor Claire T. Cardie

February 2019 - May 2020

- Explored the relationship between argument structure and persuasion in online debates
- Applied BERT for sentence representation, generated argument structure on Debate.org and proposed three sets of argument features; employed LSTM for persuasion prediction with 77.38% accuracy and showed that personal experience and 'Claim-Reason-Rephrase' structure are powerful in making convincing arguments

**TEACHING
EXPERIENCE**

Natural Language Processing (CS 4740 / CS 5740)

Graduate Teaching Assistant

August 2019 - December 2019

Instructor: Professor Claire T. Cardie

**HONORS AND
AWARDS**

Academic Excellence Scholarship (Third-Class) for 2016-2017 academic year

Academic Excellence Scholarship (Third-Class) for 2015-2016 academic year

Academic Excellence Scholarship (Second-Class) for 2014-2015 academic year

SKILLS

Programming Languages: Python, C++

Machine Learning Frameworks: Pytorch