

# Xinyu Hua

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## Education

**Northeastern University, Ph.D. in Computer Science** 2016 – Present

*Research area:* Argument Mining, Text Generation, Natural Language Inference

*Advisor:* [Lu Wang](#)

**Shanghai Jiao Tong University, B.Eng. in Computer Science** 2012 – 2016

*Undergraduate thesis:* “Action++: conceptualizing action concepts into noun concepts”

*Undergraduate advisor :* [Kenny Q. Zhu](#)

## Publications

1. [Sentence-Level Content Planning and Style Specification for Neural Text Generation.](#) 2019  
**Xinyu Hua** and Lu Wang.  
In *Proc. of EMNLP, 2019*.
2. [Argument Generation with Retrieval, Planning, and Realization.](#) 2019  
**Xinyu Hua**, Zhe Hu, and Lu Wang.  
In *Proc. of ACL, 2019*.
3. [Argument Mining for Understanding Peer Reviews.](#) 2019  
**Xinyu Hua**, Mitko Nikolov, Nikhil Badugu, and Lu Wang.  
In *Proc. of NAACL, 2019*. (Short)
4. [Neural Argument Generation Augmented with Externally Retrieved Evidence.](#) 2018  
**Xinyu Hua** and Lu Wang.  
In *Proc. of ACL, 2018*.
5. [Understanding and Detecting Supporting Arguments of Diverse Types.](#) 2017  
**Xinyu Hua** and Lu Wang.  
In *Proc. of ACL, 2017*. (Short, **Outstanding Paper**)
6. [A Pilot Study of Domain Adaptation Effect for Neural Abstractive Summarization.](#) 2017  
**Xinyu Hua** and Lu Wang.  
In *Proc. of EMNLP, 2017*. (The Workshop on New Frontiers in Summarization)

## Experience

**IBM Research AI, Research Intern** Summer 2019

- *Mentor:* [Avirup Sil](#), [Radu Florian](#)
- We developed a rewriting framework that converts questions of diverse forms into hypothesis-premise pairs for data augmentation. Through transfer learning we significantly improved the accuracy of Boolean questions. (The 2<sup>nd</sup> best model on SuperGLEU leaderboard.)

**ADAPT Lab at SJTU, Research Assistant** 2014-2016

- *Advisor:* [Kenny Q. Zhu](#)
- We leveraged textual knowledge such as audible entity taxonomy and co-occurrence statistics to improve the accuracy of automatic scene recognition.
- We developed a framework to identify the most related noun concepts for entity-predicate triplets.

## Services

**Reviewer:** ACL 2020, EMNLP 2019 NewSum Workshop, CoNLL 2019, NAACL 2019, AACL 2018, EMNLP 2017

## Awards

ACL Outstanding Paper Award 2017  
Academic Excellence Scholarship, Shanghai Jiao Tong University 2013-2014  
Mathematical Contest in Modeling, Honorable Mention 2014  
RoboCup Robot Competition China Open, 1<sup>st</sup> prize 2013, 2014

## Software

[CANDELA](#): a neural argument generation model that separates text planning and surface realization.

[SUPERGLEU-MTL](#): a multi-task learning framework for NLI related tasks on SuperGLEU benchmark.

[NEURALARGGEN](#): a neural argument generation model with retrieved supporting arguments.

## Talks and Posters

**Poster:** QASP Workshop at MIT-IBM 2019  
**Guest lecture:** CS 7180 Special Topics in AI: Deep Learning (2019), Northeastern University 2019  
**Poster:** Amazon Research Day Boston 2018

## Skills

**Programming:** python (PyTorch, Tensorflow), Java, C++

**Language:** Mandarin Chinese (native), English (proficient), Japanese (conversational)