

Xinyu Hua

Bloomberg LP
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Experience

Bloomberg AI, Senior Research Scientist 2021 – Present

- We work on active learning and transfer learning for efficient sentiment analysis in various specialized domains.

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 2nd best model on SuperGLEU leaderboard.)

Education

Northeastern University, Ph.D. in Computer Science 2016 – 2021

Research area: Argument Mining, Text Generation

Advisor: [Lu Wang](#)

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

Advisor : [Kenny Q. Zhu](#)

Publications

1. [Towards Controllable Neural Generation of Arguments](#) 2021
Xinyu Hua
PhD Dissertation.
2. [DYPLOC: Dynamic Planning of Content Using Mixed Language Models for Opinion Text Generation](#) 2021
Xinyu Hua, Ashwin Sreevatsa, and Lu Wang.
In *Proc. of ACL, 2021.*
3. [PAIR: Planning and Iterative Refinement in Pre-trained Transformers for Long Text Generation.](#) 2020
Xinyu Hua and Lu Wang.
In *Proc. of EMNLP, 2020.*
4. [XREF: Entity Linking for Chinese News Comments with Supplementary Article Reference.](#) 2020
Xinyu Hua, Lei Li, Lifeng Hua, and Lu Wang.
In *Proc. of AKBC, 2020.*
5. [Sentence-Level Content Planning and Style Specification for Neural Text Generation.](#) 2019
Xinyu Hua and Lu Wang.
In *Proc. of EMNLP, 2019.*

6. [Argument Generation with Retrieval, Planning, and Realization.](#) 2019
Xinyu Hua, Zhe Hu, and Lu Wang.
In *Proc. of ACL, 2019*.
7. [Argument Mining for Understanding Peer Reviews.](#) 2019
Xinyu Hua, Mitko Nikolov, Nikhil Badugu, and Lu Wang.
In *Proc. of NAACL, 2019*. (Short)
8. [Neural Argument Generation Augmented with Externally Retrieved Evidence.](#) 2018
Xinyu Hua and Lu Wang.
In *Proc. of ACL, 2018*.
9. [Understanding and Detecting Supporting Arguments of Diverse Types.](#) 2017
Xinyu Hua and Lu Wang.
In *Proc. of ACL, 2017*. (Short, **Outstanding Paper**)
10. [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)

Services

Reviewer: EMNLP 2019-2021, ACL 2020-2022, NAACL 2019, 2021, CoNLL 2019-2020, AAAI 2018

Awards and Certificate

ACL Outstanding Paper Award	2017
Japanese Language Proficiency Test (JLPT) - N1	2016
Academic Excellence Scholarship, Shanghai Jiao Tong University	2013-2014
RoboCup Robot Competition China Open, 1 st prize	2013, 2014

Software

DYPLOC: dynamic planing of content with mixed langauge model.

PAIR: a plan-and-refine text generation framework.

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