

MAN LUO

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EDUCATION

Ph.D. student, Computer Science (GPA:3.85/4.0)

Arizona State University (ASU), Tempe, Arizona, USA

Advisor: Dr. Chitta Baral

August 2018 - (Expected) May 2023

Bachelor of Science, Computer Science (GPA:85/100)

Beijing Forestry University, Beijing, China

September 2014 - July 2018

RESEARCH INTEREST

Natural Language Processing, with a special focus on open-domain question answering (retrieval and reading comprehension) under both text and multi-modal settings, with an interest in dialogue system.

WORK EXPERIENCE

Research Intern at Google Research

Sep 2022 - present

Research Intern at Meta Reality Lab

May 2022 - Aug 2022

Research Intern at Salesforce.Inc

May 2021 - Aug 2021

Research Assistant at ASU

Aug 2018 - Present

TEACHING/MENTORING

Teaching Assistant

CSE259 Logic in Computer Science

Dec 2020 - Dec 2021

CSE579 Knowledge Representation and Reasoning

Aug 2019 - Dec 2019

Master Thesis

Yankai Zeng (now a Ph.D student in The University of Texas at Dallas).

Aug 2020 - June 2021

Course Project Mentor

CSE576 Natural Language Processing

Domain Oriented Question Generation, 26 students,

Aug 2021 - Dec 2021

Differential Diagnosis Dialogue Generation, 20 students,

Aug 2021 - Dec 2021

Semantic Information Availability (SIA) Task, 5 students,

Jun 2020 - May 2020

Question Answering with Varied Types of Reasoning, 5 students.

Jun 2020 - May 2020

PUBLICATION

- Parmar, M., Mishra, S., Purohit, M., **Luo, M.**, Baral, C. [In-BoXBART: Get Instructions into Biomedical Multi-Task Learning](#). NAACL 2022 Findings.
- Gokhale, T., Mishra, S., **Luo, M.**, Sachdeva, B., Baral, C. [Generalized but not Robust? Comparing the Effects of Data Modification Methods on Out-of-Domain Generalization and Adversarial Robustness](#). ACL 2022 Findings.
- **Luo, M.**, Mitra, A., Gokhale, T., Baral, C. [Improving Biomedical Information Retrieval with Neural Retrievers](#). AAAI 2022.
- **Luo, M.**, Zeng, Y., Banerjee, P., Baral, C. [Weakly-Supervised Visual-Retriever-Reader for Knowledge-based Question Answering](#). EMNLP 2021.
- **Luo, M.**, Sampat, S., Tallam, R., Zeng, Y., Vancha, M., Sajja, A., Baral, C. [Just because you are right, doesnt mean I am wrong: Overcoming a bottleneck in development and evaluation of Open-Ended VQA tasks](#). EACL 2021.

- Lee, J. and **Luo, M.**, 2019. [Strong equivalence for LPMLN programs](#). ICLP 2019.

WORKSHOP

- Varshney, N., **Luo, M.**, Baral, C. [Can Open-Domain QA Reader Utilize External Knowledge Efficiently like Humans?](#) AAAI 2023 Workshop on Knowledge Augmented Methods for NLP
- **Luo, M.**, Parmar, M., Mahendran, J. S., Jain, S., Rawal, S., Baral, C. [SCONER: Scoring Negative Candidates Before Training Neural Re-Ranker For Question Answering](#) ICML 2022 Workshop on Knowledge Retrieval and Language Models.
- **Luo, M.**, Saxena, S., Mishra, S., Parmar, M., Baral, C. [BioTABQA: Instruction Learning for Biomedical Table Question Answering](#) CEUR Workshop 2022.
- **Luo, M.** [Neural Retriever and Go Beyond: A Thesis Proposal](#). NAACL 2022 Student Research Workshop.
- **Luo, M.**, Chen, S., Baral, C. [A Simple Approach to Jointly Rank Passages and Select Relevant Sentences in the OBQA Context](#) NAACL 2022 Student Research Workshop.
- **Luo, M.**, Hashimoto, K., Yavuz, S., Liu, Z., Baral, C., Zhou, Y. [Choose Your QA Model Wisely: A Systematic Study of Generative and Extractive Readers for Question Answering](#) ACL 2022 Spa-NLP workshop.

PRE-PRINT

- **Luo, M.**, Jain, S., Gupta, A., Einolghozati, A., Oguz, B., Chatterjee, D., Chen, X., Baral, C. and Heidari, P., [A Study on the Efficiency and Generalization of Light Hybrid Retrievers](#) arXiv preprint, 2022.
- Banerjee, P., Baral, C., **Luo, M.**, Mitra, A., Pal, K., Son, T. C., Varshney, N. [Can Transformers Reason About Effects of Actions?](#) arXiv preprint, 2020.

SERVICE

Organizer, [O-DRUM](#): Workshop on Open-Domain Retrieval under Multi-Modal Settings CVPR 2022.

AWARD

Finalist of 2021 Knowledge Mobilization Awards. Website	<i>April 2021</i>
2019 ICLP conference Doctoral Consortium Travel Award. Website	<i>September 2019</i>
Honorable Mention in Interdisciplinary Contest in Modeling(ICM)	<i>April 2017</i>

INVITED TALK

“Semantic Searching in Biomedical Domain” at exploreCSR workshop (ASU).	<i>Mar 2021</i>
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