

Ming Shen

Arizona State University ([Cognition & Intelligence Lab](#))
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RESEARCH INTERESTS

I am broadly interested in natural language processing. I focus on developing zero-shot learning methods for various NLP tasks, including summarization, commonsense reasoning, and text classification.

EDUCATION

Ph.D. of Computer Science Aug. 2020 – Present
[Arizona State University](#), Tempe, Arizona
• Focus on natural language processing under supervision of prof. [Chitta Baral](#).

M.S. of Computer Science Aug. 2018 – May 2020
[University of Southern California](#), Los Angeles, California
• Focus on natural language processing under supervision of prof. [Xiang Ren](#)

B.S. of Computer Science Aug. 2014 – May 2018
[Worcester Polytechnic Institute](#), Worcester, Massachusetts

PUBLICATION

1. [Simple Yet Effective Synthetic Dataset Construction for Unsupervised Opinion Summarization](#)
Ming Shen, Jie Ma, Shuai Wang, Yogarshi Vyas, Kalpit Dixit, Miguel Ballesteros, Yassine Benajiba in Findings of EACL 2023
2. [Unsupervised Pronoun Resolution via Masked Noun-Phrase Prediction](#)
*Ming Shen**, Pratyay Banerjee*, and Chitta Baral
in Proceedings of ACL-IJCNLP 2021
3. [CommonGen: A Constrained Text Generation Challenge for Generative Commonsense Reasoning](#)
Bill Yuchen Lin, Wangchunshu Zhou, Ming Shen, Pei Zhou, Chandra Bhagavatula, Yejin Choi, and Xiang Ren
in Findings of EMNLP 2020
4. [TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition](#)
*Bill Yuchen Lin**, Dong-Ho Lee*, **Ming Shen**, Ryan Moreno, Xiao Huang, Prashant Shiralkar, and Xiang Ren
in Proceedings of ACL-IJCNLP 2020
5. [Methods and Mechanisms for Interactive Novelty Handling in Adversarial Environments](#)
Tung Thai, Ming Shen, Mayank Garg, Ayush Kalani, Nakul Vaidya, Utkarsh Soni, Mudit Verma, Sriram Gopalakrishnan, Chitta Baral, Subbarao Kambhampati, Jivko Sinapov, Matthias Scheutz
in Proceedings of AAMAS 2023
6. [An Architecture for Novelty Handling in a Multi-Agent Stochastic Environment: Case Study in Open-World Monopoly](#)
Tung Thai, Ming Shen, Neeraj Varshney, Sriram Gopalakrishnan, Utkarsh Soni, Matthias Scheutz, Chitta Baral, and Jivko Sinapov

in Proceedings of AAAI 2022 Symposium: Designing Artificial Intelligence for Open Worlds

EXPERIENCE	<i>Applied Scientist Internship</i> May. 2023 - Aug. 2023 Amazon Bedrock , New York, New York
	<ul style="list-style-type: none">• Project: Multilingual instruction-following with LLMs• Mentors: Ling Liu and Jie Ma
	<i>Applied Scientist Internship</i> May. 2022 - Aug. 2022 Amazon Comprehend , New York, New York
	<ul style="list-style-type: none">• Project: Unsupervised opinion summarization• Mentors: Jie Ma and Shuai Wang
	<i>Graduate Teaching Associate Assistantship</i> Aug. 2022 - Present School of Computing and Augmented Intelligence, ASU , Tempe, Arizona
<ul style="list-style-type: none">• Work as the teaching assistant for ASU CSE 475: Foundations of Machine Learning, taught by Dr. Paulo Shakarian.• Help design course materials, including quizzes, exams, and coding assignments.	
<i>Graduate Research Associate Assistantship</i> Aug. 2020 - May. 2022 School of Computing and Augmented Intelligence, ASU , Tempe, Arizona	
<ul style="list-style-type: none">• Work as a research assistant supervised by Dr. Chitta Baral.• Focus on Monopoly and natural language domain under DARPA SAIL-ON program.• Aim to develop systems that quantify and characterize novelties in open-world domains and further react to those novelties.	
<i>Graduate Student Worker</i> Nov. 2019 - May 2020 Information Science Institute, USC , Los Angeles, California	
<ul style="list-style-type: none">• Work as graduate student worker supervised by Dr. Xiang Ren.• Focus on LESTAT project under DARPA KAIROS program.• Aim to develop systems that discover event schemas temporally and trans-modally for complex events.	
PROJECTS	Demo project for <i>ACL 2019 System Demonstrations</i> paper: AlpacaTag: Active Learning-based Crowd Annotation Framework for Sequence Tagging
	<ul style="list-style-type: none">• An open-source web-based data annotation framework for sequence tagging tasks, such as named-entity recognition (NER).• Dynamically provides the most informative unlabeled instance with suggested tagging for users to label with a back-end active learned model.
AWARDS HONORS	University Doctoral Fellowship, Arizona State University 2020 - Present CIDSE Doctoral Fellowship, Arizona State University 2020
SERVICES	Reviewer: ACL Rolling Review, COLING, ACL, EMNLP