

# WEIJIA XU

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University of Maryland

College Park, MD 20740

## RESEARCH INTERESTS

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Machine Translation and Multilingual NLP

## EDUCATION

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**University of Maryland, College Park**

**Degree:** Ph.D. in Computer Science

**Advisor:** Marine Carpuat

*2017 - Present*

GPA: 4.0/4.0

**University of Science and Technology of China**

**Degree:** B.Eng. in Computer Science and Technology

*2013 - 2017*

GPA: 9.0/10

## RESEARCH EXPERIENCE

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**CLIP Lab, University of Maryland**

*Graduate Research Assistant (Advisor: Marine Carpuat)*

MD, USA

*March 2018 - Present*

- Improving neural machine translation in low-resource settings.
- Semi-supervised learning for natural language generation.

## HONORS AND AWARDS

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Dean's Fellowship, University of Maryland, 2017-18

Honorable Student Title, University of Science and Technology of China, 2016-17

Huawei Excellent Student Award, University of Science and Technology of China, 2014-16

## PUBLICATIONS

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**Weijia Xu**, Marine Carpuat

EDITOR: an Edit-Based Transformer with Repositioning for Neural Machine Translation with Soft Lexical Constraints.

**To appear in TACL**

**Weijia Xu**, Batool Haider, Saab Mansour

End-to-End Slot Alignment and Recognition for Cross-Lingual NLU.

**EMNLP 2020**

**Weijia Xu**, Xing Niu, Marine Carpuat

Dual Reconstruction: a Unifying Objective for Semi-Supervised Neural Machine Translation.

**Findings of EMNLP 2020**

**Weijia Xu**, Xing Niu, Marine Carpuat

Differentiable Sampling with Flexible Reference Word Order for Neural Machine Translation.

**NAACL 2019**

Xing Niu, **Weijia Xu**, Marine Carpuat  
Bi-Directional Differentiable Input Reconstruction for Low-Resource Neural Machine Translation.  
**NAACL 2019**

**Weijia Xu**, Marine Carpuat  
The University of Maryland's Chinese-English Neural Machine Translation Systems.  
Third Conference on Machine Translation (WMT), 2018

**Weijia Xu**, Batool Haider, Saab Mansour  
Meta Learning for Zero-Shot Cross-Lingual Transfer.  
Under review

## WORK EXPERIENCE

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**Amazon AI, Palo Alto, USA** May 2019 - August 2019  
**Mentors** : *Batool Haider, Saab Mansour*  
**Topic** : Meta-learning for zero-shot cross-lingual language understanding

## SKILLS

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### Programming Languages

Python, C/C++, Java, MATLAB

### Tools and Libraries

PyTorch, MxNET Symbol, MxNET Gluon

### Human Languages

Mandarin Chinese (native), English (fluent)