

Xuan Zhang

CONTACT INFORMATION

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RESEARCH INTEREST

Natural language processing (with a particular interest in sign language and neural machine translation), hyper-parameter optimization

EDUCATION

Johns Hopkins University (JHU) Baltimore, Maryland, USA
Ph.D. Computer Science Sep. 2019 - Present
Advisor: Kevin Duh

Johns Hopkins University Baltimore, Maryland, USA
M.S. Computer Science Sep. 2016 - May. 2018

University of Electronic Science and Technology of China (UESTC) Chengdu, China
B.S. Information Security (Rank 1 of 166) Sep. 2012 - Jun. 2016

PUBLICATIONS

Xuan Zhang, Kevin Duh. Reproducible and Efficient Benchmarks for Hyperparameter Optimization of Neural Machine Translation Systems.
TACL, Vol. 8, 2020

Jason Naradowsky, **Xuan Zhang**, Kevin Duh. **Machine Translation System Selection from Bandit Feedback.**
Proc. of AMTA 2020

Brian Thompson,* Rebecca Knowles,* **Xuan Zhang**,* Huda Khayrallah, Kevin Duh, Philipp Koehn. **HABLex: Human Annotated Bilingual Lexicons for Experiments in Machine Translation.**
Proc. of EMNLP-IJCNLP 2019, Hong Kong, China.

Xuan Zhang, Pamela Shapiro, Gaurav Kumar, Paul McNamee, Marine Carpuat, Kevin Duh. **Curriculum Learning for Domain Adaptation in Neural Machine Translation**
Proc. of NAACL-HLT 2019, Minneapolis, Minnesota.

Xuan Zhang, Gaurav Kumar, Huda Khayrallah, Kenton Murray, Jeremy Gwinnup, Marianna Martindale, Paul McNamee, Kevin Duh and Marine Carpuat. **An Empirical Exploration of Curriculum Learning for Neural Machine Translation**
arXiv preprint

Hirofumi Inaguma, **Xuan Zhang**, Zhiqi Wang, Adithya Renduchintala, Shinji Watanabe, Kevin Duh. **The JHU/KyotoU Speech Translation System for IWSLT 2018**
Proc. of IWSLT 2018, Bruges, Belgium.

RESEARCH EXPERIENCE

Microsoft Research Redmond, USA
Research Intern June. 2020 - Aug. 2020
Advisor: Xiaodong Liu, Hoifung Poon, Hao Zhu

- Worked on knowledge-base based language model pre-training.

Center for Language and Speech Processing, JHU

Baltimore, USA

Research Assistant

Jan. 2018 - Present

Advisor: Kevin Duh

- Currently working on American sign language processing.
- Worked on hyper-parameter optimization for neural machine translation models.
- Worked on curriculum learning for neural machine translation and domain adaption (co-advised by Marine Carpuat, University of Maryland).

**HONORS AND
AWARDS**

Best Project for Object-Oriented Software Programming course (Top 1 out of 20)	2017
Outstanding Graduate of Sichuan Province (Top 1 out of 551)	2016
National Scholarship (Top 1 out of 166)	2013, 2014
Tang Lixin Scholarship (Top 1 out of 551)	2013
CS Outstanding Student Award (Top 1 out of 166)	2013

**PROFESSIONAL
SERVICE****Program Committee:**

EMNLP, ACL-IJCNLP, WMT, AAAI	2020
EMNLP, WMT	2019

Course Assistant:

Machine Learning (CS 475), JHU	2018
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TECHNICAL SKILLS

- Programming Languages: Python, Bash, Java, OCaml
- Toolkits and Libraries: Amazon Sockeye, PyTorch, TensorFlow