

# XING SHI

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Los Angeles, CA

## RESEARCH INTERESTS

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Natural Language Processing, Machine Translation and Sequence to Sequence Models.

## EDUCATION

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### University of Southern California

2012 - 2018

Ph.D. in Computer Science

Thesis: Neural Sequence Models: Interpretation and Augmentation.

Advisor: Prof. Kevin Knight

### Tsinghua University, Beijing

2008 - 2012

B.E. in Computer Science and Technology

Ranking 14/117

## EXPERIENCE

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### Didi Research America LLC

October 2018 - Present

*Research Scientist*

*Los Angeles, US*

- Worked on intelligent customer service.

### Specifio, Inc.

August 2017 - January 2018

*Research Intern*

*Los Angeles, US*

- Worked on a system automating the patent drafting for attorneys and agents.
- Enabled patent parsing and title generation by designing a neural sequence-to-sequence model.
- Built a template engine to generate customized patent drafts.

### Microsoft Research Cambridge

June 2015 - August 2015

*Research Intern*

*Cambridge, UK*

- Designed a Machine Translation system to translate English queries to C# code.
- Designed and implemented a probabilistic C# code model based Abstract Syntax Tree.

### [HowToSpeak.org](http://HowToSpeak.org)

2014 - Present

*Co-Founder/Lead Developer*

*Los Angeles, CA*

- Independently built a system generating Chinese phonetic translations of English, Korean and Japanese.
- Acquired 10k+ users for our wechat official account and 100+ registered developers for our API service.
- Integrated our service with Ticwatch (an Android Wear).

### Unverisity of Southern California

Aug. 2012 - Present

*Research Assistant/Teaching Assistant*

*Los Angeles, CA*

- TA in Applied Natural Language Processing and Principles of Software Development.

## PUBLICATIONS

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- [1] **Xing Shi**, Shizhen Xu, and Kevin Knight. Fast locality sensitive hashing for beam search on gpu. In *submitted to NAACL*, 2018

- [2] Ulf Hermjakob, Qiang Li, Daniel Marcu, Jonathan May, Sebastian J Mielke, Nima Pourdamghani, Michael Pust, **Xing Shi**, Kevin Knight, Tomer Levinboim, et al. Incident-driven machine translation and name tagging for low-resource languages. *Machine Translation*, pages 1–31, 2017
- [3] **Xing Shi** and Kevin Knight. Speeding up neural machine translation decoding by shrinking run-time vocabulary. In *Proc. ACL*, 2017
- [4] **Xing Shi**\*, Marjan Ghazvininejad\*, Jay Priyadarshi, and Kevin Knight. Hafez: an interactive poetry generation system. In *Proc. ACL demo (Best Demo Award)*, 2017 [\[DEMO\]](#)
- [5] **Xing Shi**, Kevin Knight, and Deniz Yuret. Why neural translations are the right length. EMNLP, 2016
- [6] **Xing Shi**, Inkit Padhi, and Kevin Knight. Does string-based neural mt learn source syntax? EMNLP, 2016
- [7] Marjan Ghazvininejad, **Xing Shi**, Yejin Choi, and Kevin Knight. Generating topical poetry. EMNLP, 2016
- [8] Kuan Liu, **Xing Shi**, Anoop Kumar, Linhong Zhu, and Prem Natarajan. Temporal learning and sequence modeling for a job recommender system. In *Proceedings of the Recommender Systems Challenge*, page 7. ACM, 2016
- [9] **Xing Shi**, Kevin Knight, and Heng Ji. How to speak a language without knowing it. pages 278–282. ACL, 2014
- [10] Minlie Huang, **Xing Shi**, Feng Jin, and Xiaoyan Zhu. Using first-order logic to compress sentences. AACL, 2012

## HONORS AND AWARDS

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Best Demo Paper Award in ACL 2017	<i>2017</i>
Finalist Award in at Amazon Alexa Skills Challenge	<i>2017</i>
Second prize in PoetiX 2017 (a sonnets generation competition).	<i>2017</i>
First prize in PoetiX 2016 (a sonnets generation competition).	<i>2016</i>
Second-class scholarship offered by ESS Inc.	<i>2010-2011</i>
Second-class scholarship offered by Geru Zheng.	<i>2009-2010</i>
First-class scholarship offered by Huawei Inc.	<i>2008-2009</i>