XING SHI

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Los Angeles, CA

RESEARCH INTERESTS

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

EDUCATION

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

Specifio, Inc. August 2017 - May 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 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

[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. AAAI, 2012

HONORS AND AWARDS

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