

XING SHI

(213)-595-8558 xingshi@usc.edu
4676 Admiralty Way, Suite 1001
Marina del Rey, CA 90292

RESEARCH INTERESTS

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

EDUCATION

University of Southern California *expected 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

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] Marjan Ghazvininejad*, Xing Shi*, Jay Priyadarshi, and Kevin Knight. Hafez: an interactive poetry generation system. In *Proc. ACL demo (Best Demo Award)*, 2017
- [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

EXPERIENCE

Specifio, Inc.
Research Intern

August 2017 - Present
Los Angeles, US

- Automate the patent application process.

Chinahadoop.cn

Online Lecturer

June 2017 - August 2017

Los Angeles, US

- Teach an online course "Natural Language Processing: the Sequence Models", with more than 600 registered students.

Microsoft Research Cambridge

Summer Intern

June 2015 - August 2015

Cambridge, UK

- Design and implement a Machine Translation system to translate English queries to C# code.

University of Southern California

Research Assistant/Teaching Assistant

Aug. 2012 - Present

Los Angeles, CA

- TA in CSCI-544 Applied Natural Language Processing in Spring 2014.
- TA in CSCI-201 Principles of Software Development in Summer 2014.

Tsinghua University

Research Intern

Jul. 2011 - Jul.2012

Beijing, China

- Extract Structured Data from Heterogeneous Web Pages (Undergraduate Thesis).

ONLINE SERVICES AND DEMOS

HowToSpeak.org

Provide Chinese phonetic translations of English, Korean and Japanese.

With 10k wechat subscribers and more than 100 registered developers.

Integrated with Ticwatch (an Android Wear).

Hafez.rocks/poem

Automatically generate English poems with Recursive Neural Network and Finite State Machine.

100K poems has already been generated.

Hafez.rocks/rap

Automatically generate Chinese Rap lyrics given any topic.

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

Elected as the Beijing Olympic Torch Escorts.

Jul. 2008

LANGUAGE

Native Mandarin Chinese, fluent English.