

XING SHI

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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

Thesis: Extract Structured Data from Heterogeneous Web Pages

Advisor: Prof. Minlie Huang

EXPERIENCE

Specifio, Inc.

August 2017 - Present

Research Intern

Los Angeles, US

- Worked on 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

Summer Intern

Cambridge, UK

- Worked on a Machine Translation system to translate English queries to C# code.
- Designed and implemented a probabilistic C# code model.

HowToSpeak.org

2014 - Present

Co-Founder/Lead Developer

Los Angeles, CA

- Worked on 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
- [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