

GUANLIN LI

◇ <https://epsilon-lee.github.io/>

Harbin Institute of Technology, Harbin, China

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EDUCATION

Harbin Institute of Technolgh, Harbin, China

Sep. 2015 - present

Ph.D. in Computer Technology

Supervisor: Tiejun Zhao

Central China Normal University, Wuhan, China

Sep. 2011 - Jun. 2015

BA. in Computer Science and Technology

Department of Computer Sicence

GPA: 90.6 3/143

Central China Normal University, Wuhan, China

Sep. 2011 - Jun. 2015

Minor in English and Linguistics

INTERNSHIP

Research Intern at Tencent AI Lab, Shenzhen.

Jan. 2018 - present

Mentor: Lemao Liu <https://lemaoliu.github.io/homepage/>

Research Intern at Microsoft Research Asia (MSRA), Beijing.

Mar. 2017 - Aug. 2017

Mentor: Shujie Liu <https://www.microsoft.com/en-us/research/people/shujliu/>

PUBLICATIONS AND PREPRINTS

1. *Understanding Data Augmentation for Neural Machine Translation: Two Perspective towards Generalization*, **Guanlin Li**, Lemao Liu, Guoping Huang, Conghui Zhu, Tiejun Zhao, Shuming Shi, **EMNLP 2019 (oral, CCF B)**.
2. *Understanding and Improving Hidden Representations for Neural Machine Translation*, **Guanlin Li**, Lemao Liu, Xintong Li, Conghui Zhu, Tiejun Zhao, Shuming Shi, **NAACL 2019 (poster, CCF C)**.
3. *On the Word Alignment from Neural Machine Translation*, Xintong Li, **Guanlin Li**, Lemao Liu, Max Meng, Shuming Shi, **ACL 2019 (poster, CCF A)**.
4. *Evaluating Explanation Methods for Neural Machine Translation*, Jierui Li, Lemao Liu, Huayang Li, **Guanlin Li**, Guoping Huang, Shuming Shi, **ACL 2020 (CCF A)**.
5. *Generative Bridging Network for Neural Sequence Prediction*, Wenhui Chen, **Guanlin Li**, Shuo Ren, Shujie Liu, Zhirui Zhang, Mu Li, Ming Zhou, **NAACL 2018 (poster, CCF C)**.
6. *Demystify The Learning of Unsupervised Neural Machine Translation*, **Guanlin Li**, Lemao Liu, Taro Watanabe, Conghui Zhu, Tiejun Zhao, **ICLR 2021 in submission**.
7. *Detecting and Understanding Generalization Barriers for Neural Machine Translation*, **Guanlin Li**, Lemao Liu, Conghui Zhu, Tiejun Zhao, Shuming Shi, arXiv 2020 (**3 × 3.5 rejected from ACL 2020, now in submission to IEEE TASLP**).
8. *Understanding Learning Dynamics for Neural Machine Translation*, Conghui Zhu, **Guanlin Li**, Lemao Liu, Tiejun Zhao, Shuming Shi, arXiv 2020 (**2.5, 3.5, 4.5 rejected from ACL 2020**).
9. *Approximate Distribution Matching for Sequence-to-Sequence Learning*, Wenhui Chen, **Guanlin Li**, Shuo Ren, Shujie Liu, Zhirui Zhang, Mu Li, Ming Zhou, arXiv 2018.

PROJECT EXPERIENCE

Gaokao History QA System (863 project)

Aug. 2016 - Oct. 2016

- **Task:** building a QA system which generates long-text answers for Gaokao history exam.
- **My contributions:** designing the overall coarse-to-fine answer generation strategy; helping with indexing for coarse-level potential segment retrieval; fine-grained sentence selection from retrieved segments; and sentence reordering for composing the final answer.
- **Outcome:** achieving close-to 60 points out of 100 points under human evaluation.

3D Scene Description Generation with Geometric Objects

Nov. 2014 - Apr. 2015

- **Task:** building an NLG system for describing virtual 3D scenes.
- **My contributions:** building the Java-based 3D scene generation interface; building rule-based content planning methods for organizing object descriptions; using SimpleNLG for surface realization from semantic units to natural sentences.
- **Outcome:** achieving Excellent Undergraduate Thesis award.

COMMUNITY CONTRIBUTIONS

Series Seminars on Practicals in NLP

Sep. 2017 - Jan. 2018

- About **9 seminars** covering basic NLP techniques to state-of-the-art papers.
- Some materials are here <https://epsilon-lee.github.io/party/>.
- I have got up to **30 audiences** from students in HIT.

Series Lectures on Deep Learning Basics and Its Application in NLP

Oct. 2016 - Dec. 2016

- **5 lectures** are given based on the Deep Learning book, ranging from basic of Neural Networks to Structured Prediction problems in NLP.
- Up to **40 audiences** in my department every lecture.

SOFTWARE SKILLS

| | |
|-------------------|-----------------------------------|
| Good Level | Python, Java |
| Basic | C, C++, git, Matlab, Shell, Linux |

LANGUAGE SKILLS

Chinese (native speaker), English (TEM-8, Test for English Majors-Band 8)

MISCS

Level 10 Er-hu (a traditional Chinese instrument)

Fingerstyle guitar, basic piano, basic harmonica.