GUANLIN LI

◇ https://epsilon-lee.github.io/
Harbin Institute of Technology, Harbin, China
+86 18811438526 ◇ epsilonlee.green@gmail.com

EDUCATION

Harbin Institute of Technologh, 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/

Student at Summer School on NLG, Summarisation, and Dialogue Systems. *July. 2015*
Mentor: Kees van Deemter https://homepages.abdn.ac.uk/k.vdeemter/pages/

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)**.
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)**.
3. *On the Word Alignment from Neural Machine Translation*, Xintong Li, **Guanlin Li**, Lemao Liu, Max Meng, Shuming Shi, **ACL** 2019 **(poster)**.
4. *Evaluating Explanation Methods for Neural Machine Translation*, Jierui Li, Lemao Liu, Huayang Li, **Guanlin Li**, Guoping Huang, Shuming Shi, **ACL** 2020.
5. *Generative Bridging Network for Neural Sequence Prediction*, Wenhu Chen, **Guanlin Li**, Shuo Ren, Shujie Liu, Zhirui Zhang, Mu Li, Ming Zhou, **NAACL** 2018 **(poster)**.
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 $\times$ 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*, Wenhu 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 Jave-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 for every lecture.

SOFTWARD 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)
others	Fingerstyle guitar, basic piano, basic harmonica